

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061321.D
 Acq On : 26 Mar 2019 2:26
 Operator : VA/AP
 Sample : K2045-03MSD
 Misc : 6.04g/5ml/MSVOA D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Manual Integrations
 APPROVED

MMDadoda
 3/26/2019 11:59:51 AM

Quant Time: Mar 26 08:38:05 2019
 Quant Title :
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	532392	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	947875	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	718861	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	299637	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.46	65	281595	61.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.62%	
35) Dibromofluoromethane	6.92	113	454680	62.69	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	125.38%	
50) Toluene-d8	10.41	98	1055475	60.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.02%	
62) 4-Bromofluorobenzene	13.55	95	357389	52.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.18%	

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.59	85	322675	59.280	ug/l	95
3) Chloromethane	1.77	50	269130	63.381	ug/l	98
4) Vinyl Chloride	1.86	62	259635	65.395	ug/l	98
5) Bromomethane	2.16	94	45650	56.650	ug/l	96
6) Chloroethane	2.28	64	88089	70.526	ug/l	99
7) Trichlorofluoromethane	2.54	101	376777	64.202	ug/l	99
8) Diethyl Ether	2.88	74	124689	71.457	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.16	101	354256	59.306	ug/l	96
10) Methyl Iodide	3.32	142	626567	75.082	ug/l	99
11) Tert butyl alcohol	4.07	59	84072	343.830	ug/l #	90
12) 1,1-Dichloroethene	3.13	96	331506	64.497	ug/l	100
13) Acrolein	3.05	56	37976	141.889	ug/l	98
14) Allvl chloride	3.63	41	484100	66.394	ug/l	97
15) Acrylonitrile	4.21	53	322326	374.833	ug/l	95
16) Acetone	3.23	43	520409	473.660	ug/l	93
17) Carbon Disulfide	3.39	76	1049366	61.473	ug/l	100
18) Methyl Acetate	3.65	43	244869	117.910	ug/l	98
19) Methyl tert-butyl Ether	4.24	73	648173	71.607	ug/l	98
20) Methylene Chloride	3.82	84	412175	66.098	ug/l	99
21) trans-1,2-Dichloroethene	4.23	96	379356	65.974	ug/l	96
22) Diisopropyl ether	5.12	45	1147377	74.700	ug/l	93
23) Vinyl Acetate	5.06	43	1788786	218.051	ug/l	99
24) 1,1-Dichloroethane	4.98	63	598056	66.816	ug/l	100
25) 2-Butanone	6.07	43	519494	408.794	ug/l	98
26) 2,2-Dichloropropane	6.03	77	453593	59.681	ug/l	97
27) cis-1,2-Dichloroethene	6.05	96	433221	70.012	ug/l	97
28) Bromochloromethane	6.44	49	253606	67.692	ug/l	100
29) Tetrahydrofuran	6.45	42	260603	411.995	ug/l	99
30) Chloroform	6.67	83	660444	69.242	ug/l	99
31) Cyclohexane	6.96	56	444090	61.129	ug/l	98
32) 1,1,1-Trichloroethane	6.87	97	517044	61.206	ug/l	96
36) 1,1-Dichloropropene	7.15	75	441926	56.985	ug/l	99
37) Ethyl Acetate	6.19	43	198446	61.264	ug/l	95
38) Carbon Tetrachloride	7.11	117	520442m	58.717	ug/l	
39) Methylcyclohexane	8.86	83	411412	51.223	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061321.D
 Acq On : 26 Mar 2019 2:26
 Operator : VA/AP
 Sample : K2045-03MSD
 Misc : 6.04g/5ml/MSVOA D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Manual Integrations
 APPROVED

MMDadoda
 3/26/2019 11:59:51 AM

Quant Time: Mar 26 08:38:05 2019
 Quant Title :
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	7.46	78	1222666	63.481	ug/l	98
41) Methacrylonitrile	6.44	41	275261	73.128	ug/l #	94
42) 1,2-Dichloroethane	7.58	62	367863	61.284	ug/l	97
43) Isopropyl Acetate	9.24	43	278212	59.568	ug/l #	99
44) Trichloroethene	8.54	130	441221	63.343	ug/l	96
45) 1,2-Dichloropropane	8.94	63	325199	68.411	ug/l	99
46) Dibromomethane	9.06	93	219290	67.300	ug/l	99
47) Bromodichloromethane	9.38	83	503328	65.904	ug/l	98
48) Methyl methacrylate	9.12	41	177969	71.392	ug/l	97
49) 1,4-Dioxane	9.08	88	40652	1486.294	ug/l	97
51) 4-Methyl-2-Pentanone	10.30	43	1019656	366.739	ug/l	98
52) Toluene	10.51	92	775929	65.841	ug/l	100
53) t-1,3-Dichloropropene	10.91	75	421087	63.443	ug/l	98
54) cis-1,3-Dichloropropene	10.03	75	512420	63.225	ug/l	97
55) 1,1,2-Trichloroethane	11.19	97	258734	66.129	ug/l	98
56) Ethyl methacrylate	11.04	69	300277	71.922	ug/l	99
57) 1,3-Dichloropropane	11.40	76	386531	65.414	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	716325	329.797	ug/l	99
59) 2-Hexanone	11.53	43	750650	371.733	ug/l	99
60) Dibromochloromethane	11.68	129	401858	65.577	ug/l	99
61) 1,2-Dibromoethane	11.81	107	304289	66.562	ug/l	98
64) Tetrachloroethene	11.26	164	335212	67.692	ug/l	98
65) Chlorobenzene	12.40	112	947722	71.576	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	370733	72.218	ug/l	99
67) Ethyl Benzene	12.53	91	1319889	65.136	ug/l	100
68) m/p-Xylenes	12.67	106	925191	116.965	ug/l	97
69) o-Xylene	13.05	106	484106	65.989	ug/l	98
70) Styrene	13.07	104	802157	64.428	ug/l	99
71) Bromoform	13.23	173	241420	76.851	ug/l	98
73) Isopropylbenzene	13.40	105	1219634	62.580	ug/l	99
74) N-amyl acetate	13.26	43	233501	45.795	ug/l	99
75) 1,1,2,2-Tetrachloroethane	13.70	83	282442	74.733	ug/l	95
76) 1,2,3-Trichloropropane	13.73	75	289965	77.815	ug/l	99
77) Bromobenzene	13.67	156	346824	63.709	ug/l	98
78) n-propylbenzene	13.78	91	1305100	59.356	ug/l	94
79) 2-Chlorotoluene	13.83	91	757678	59.184	ug/l	100
80) 1,3,5-Trimethylbenzene	14.24	105	975249	63.433	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.47	75	86673	73.702	ug/l	99
82) 4-Chlorotoluene	13.94	91	890447	63.623	ug/l	99
83) tert-Butylbenzene	14.19	119	1114427	63.485	ug/l	99
84) 1,2,4-Trimethylbenzene	14.24	105	975249	63.433	ug/l	99
85) sec-Butylbenzene	14.37	105	1012365	51.784	ug/l	99
86) p-Isopropyltoluene	14.48	119	932550	53.467	ug/l	99
87) 1,3-Dichlorobenzene	14.45	146	542979	56.271	ug/l	99
88) 1,4-Dichlorobenzene	14.53	146	620349	66.368	ug/l	99
89) n-Butylbenzene	14.80	91	686796	44.352	ug/l	96
90) Hexachloroethane	15.01	117	247729	52.975	ug/l	96
91) 1,2-Dichlorobenzene	14.81	146	609240	79.126	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.38	75	38898	82.365	ug/l	83
93) 1,2,4-Trichlorobenzene	15.94	180	175769	49.430	ug/l	99
94) Hexachlorobutadiene	16.04	225	70108	24.468	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032519\
Data File : VD061321.D
Acq On : 26 Mar 2019 2:26
Operator : VA/AP
Sample : K2045-03MSD
Misc : 6.04g/5ml/MSVOA D/SOIL
ALS Vial : 36 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Quant Time: Mar 26 08:38:05 2019
Quant Title :
QLast Update : Tue Mar 26 03:31:57 2019
Response via : Initial Calibration

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	16.12	128	331441	63.879	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	79495	47.864	ug/l	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

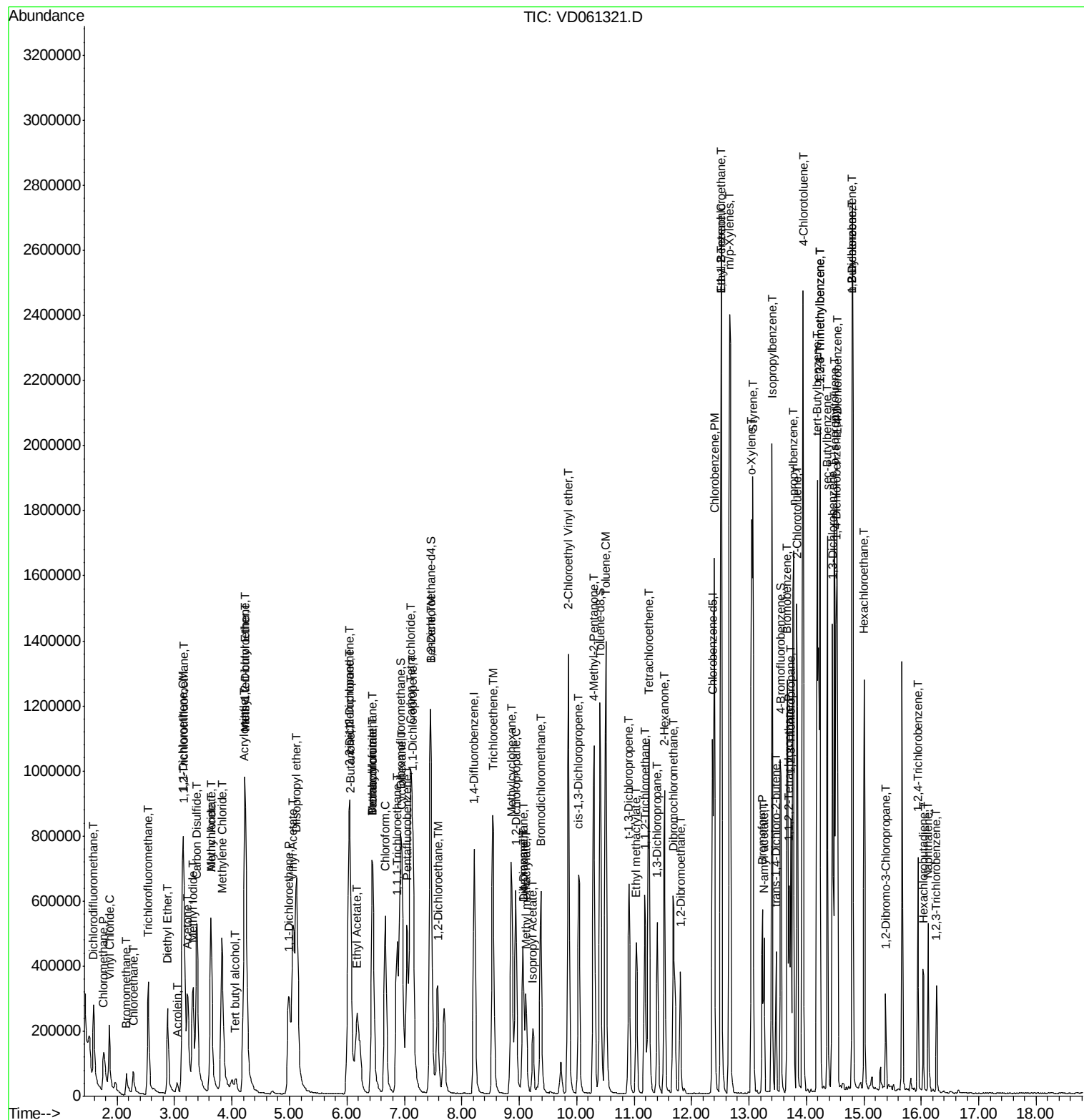
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD032519\
 Data File : VD061321.D
 Acq On : 26 Mar 2019 2:26
 Operator : VA/AP
 Sample : K2045-03MSD
 Misc : 6.04q/5ml/MSVOA D/SOIL
 ALS Vial : 36 Sample Multiplier: 1

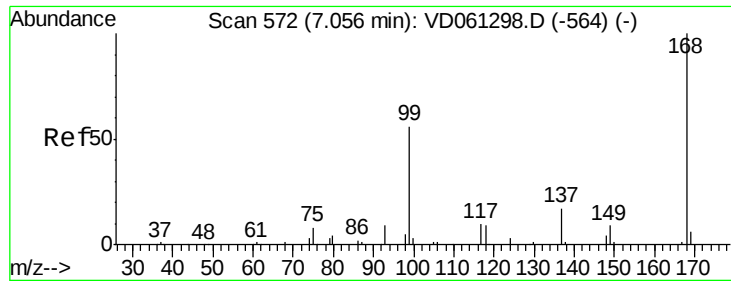
Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Manual Integrations
 APPROVED

MMDadoda
 3/26/2019 11:59:51 AM

Quant Time: Mar 26 08:38:05 2019
 Quant Title :
 QLast Update : Tue Mar 26 03:31:57 2019
 Response via : Initial Calibration





#1

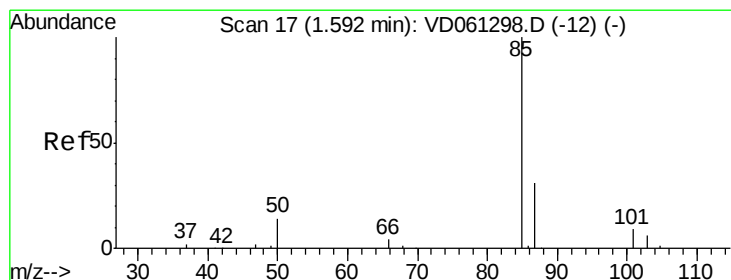
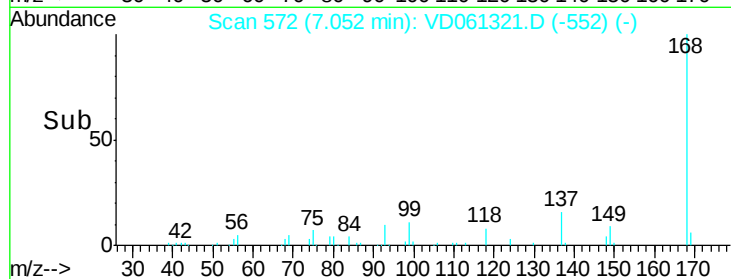
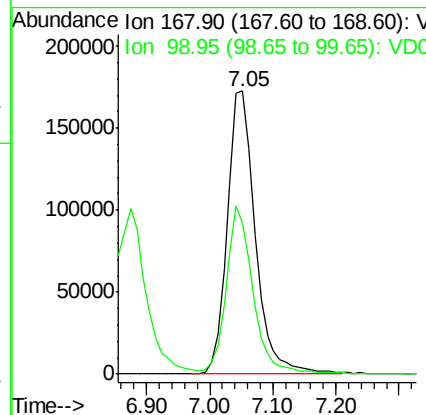
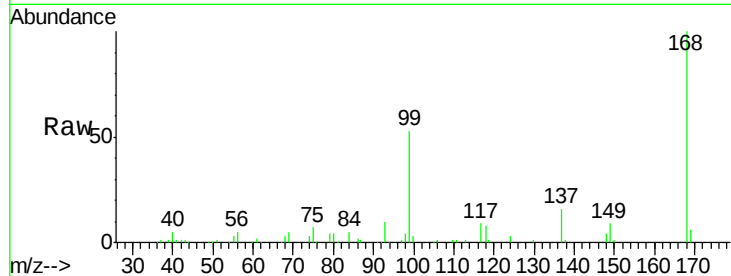
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
168	100		
99	53.3	45.8	68.8

Manual Integrations
 APPROVED

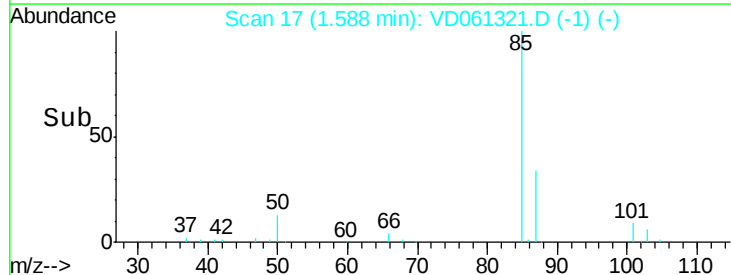
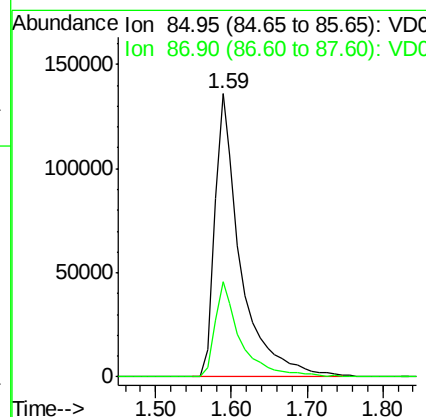
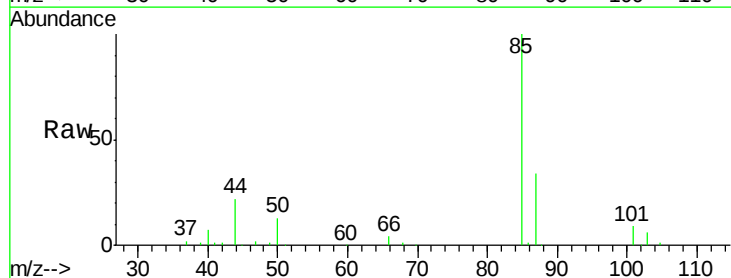
MMDadoda
 3/26/2019 11:59:51 AM

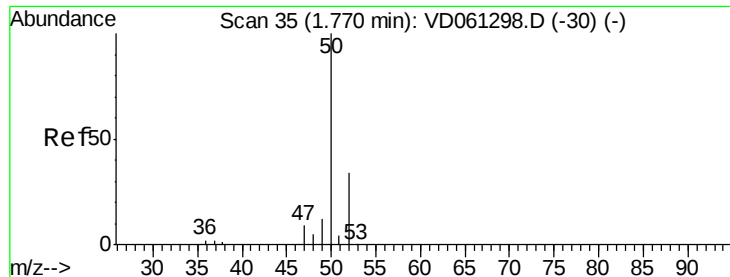


#2

Dichlorodifluoromethane
 Concen: 59.280 ug/l
 RT: 1.59 min Scan# 17
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.8	15.4	46.4





#3

Chloromethane

Concen: 63.381 ug/l

RT: 1.77 min Scan# 35

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 50 Resp: 269130

Ion Ratio Lower Upper

50 100

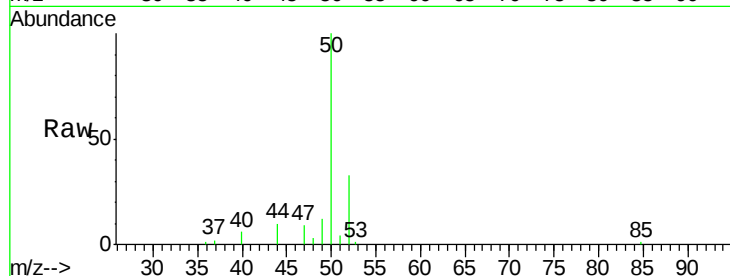
52 32.9 27.1 40.7

Manual Integrations

APPROVED

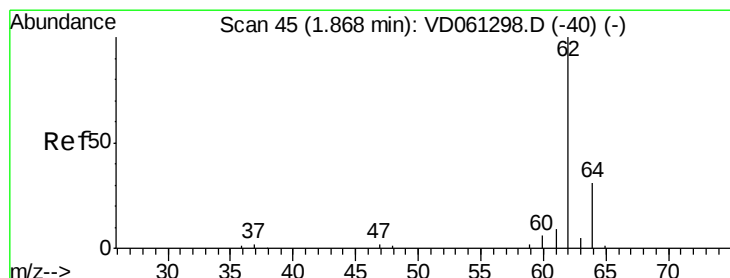
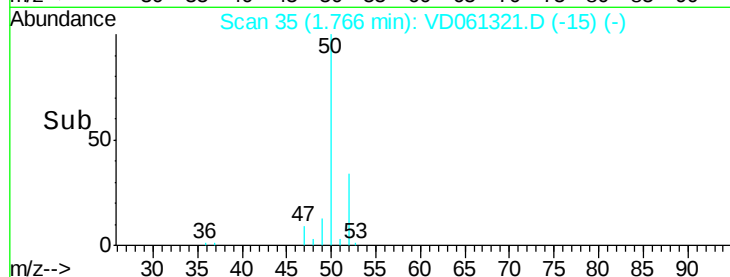
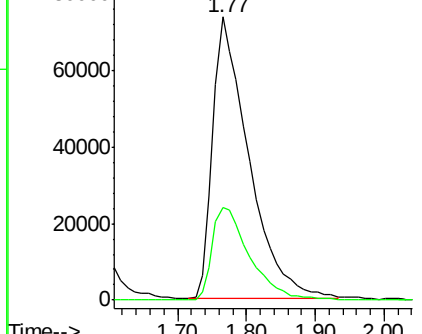
MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 65.395 ug/l

RT: 1.86 min Scan# 45

Delta R.T. -0.00 min

Lab File: VD061321.D

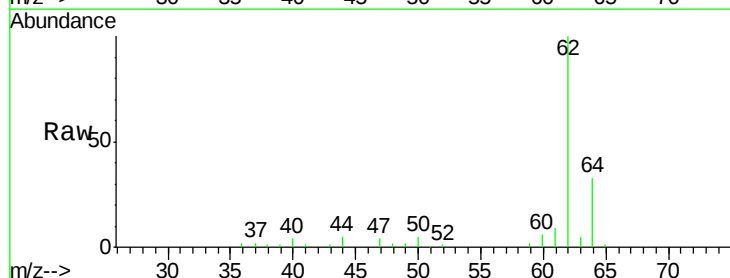
Acq: 26 Mar 2019 2:26

Tgt Ion: 62 Resp: 259635

Ion Ratio Lower Upper

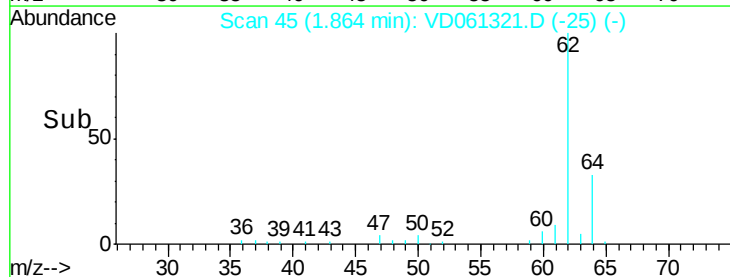
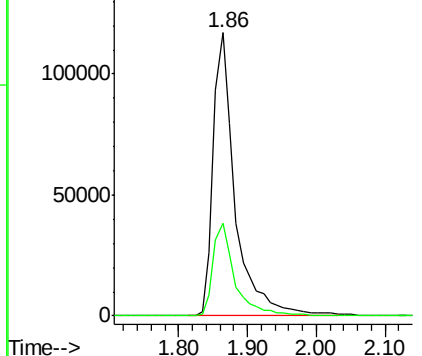
62 100

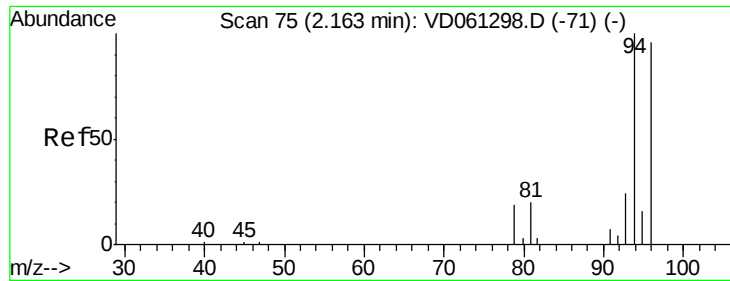
64 32.6 25.1 37.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 56.650 ug/l

RT: 2.16 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

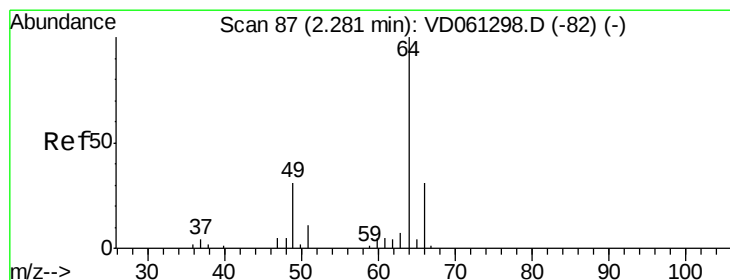
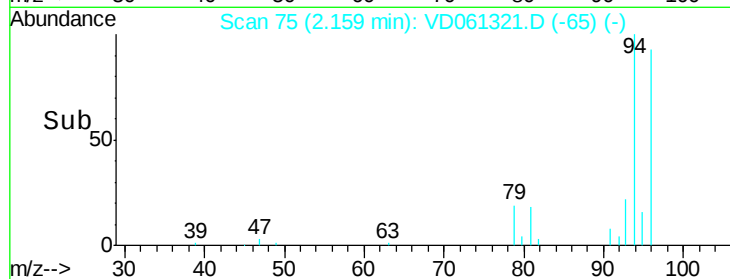
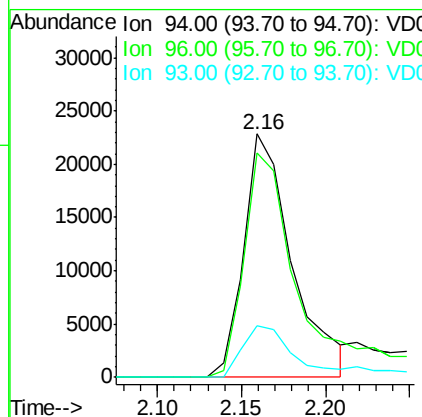
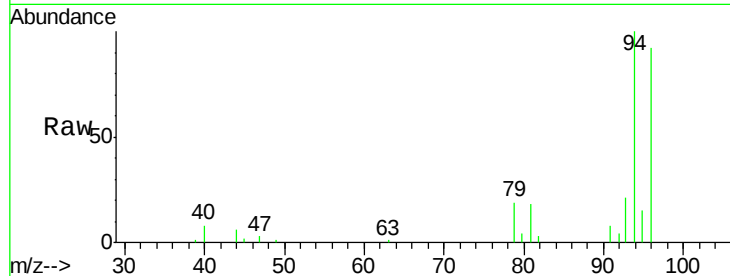
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	94	Resp:	45650
Ion	Ratio	Lower	Upper
94	100		
96	92.2	76.9	115.3
93	21.2	18.8	28.2

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



#6

Chloroethane

Concen: 70.526 ug/l

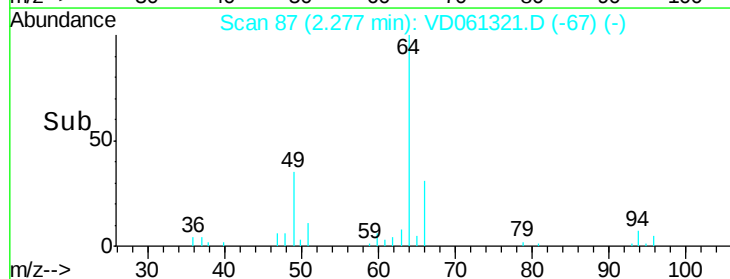
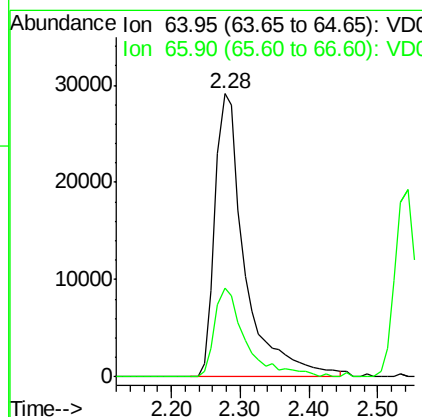
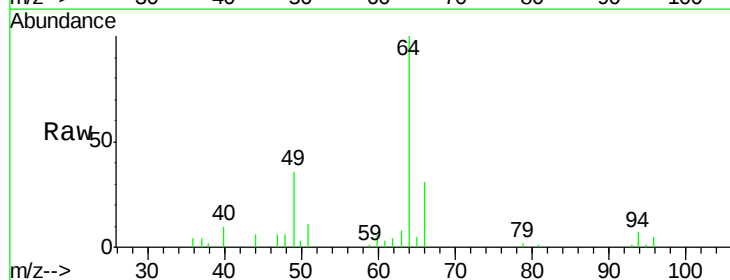
RT: 2.28 min Scan# 87

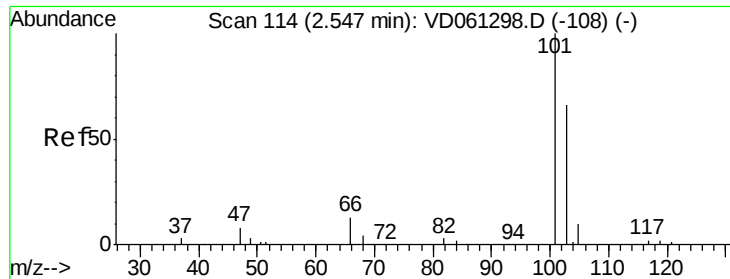
Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion:	64	Resp:	88089
Ion	Ratio	Lower	Upper
64	100		
66	31.4	24.6	36.8





#7

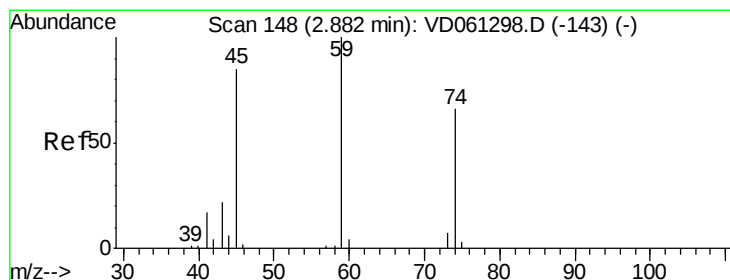
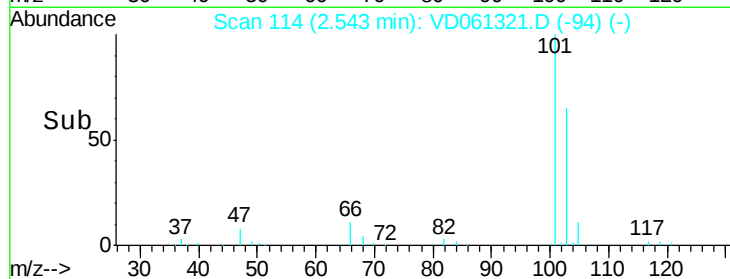
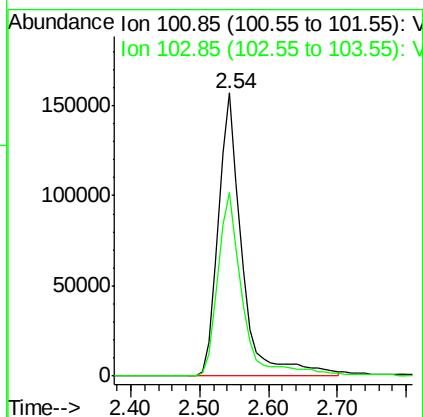
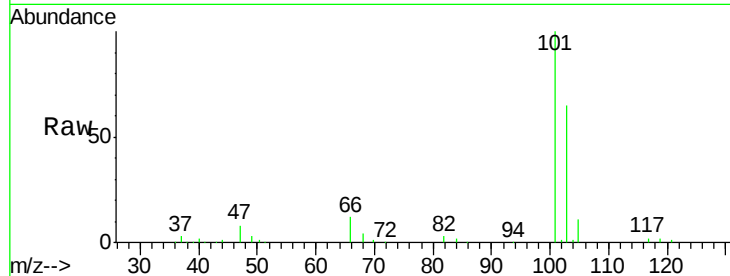
Trichlorofluoromethane
Concen: 64.202 ug/l
RT: 2.54 min Scan# 114
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion:101 Resp: 376777
Ion Ratio Lower Upper
101 100
103 64.8 52.6 79.0

Manual Integrations
APPROVED

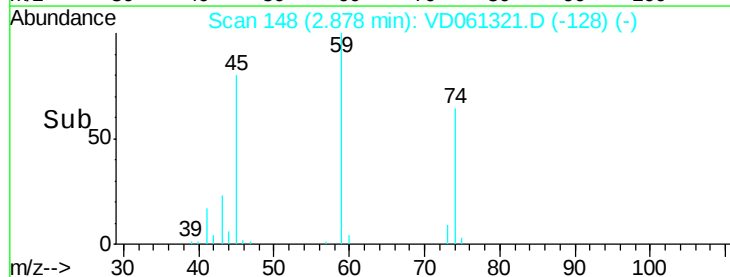
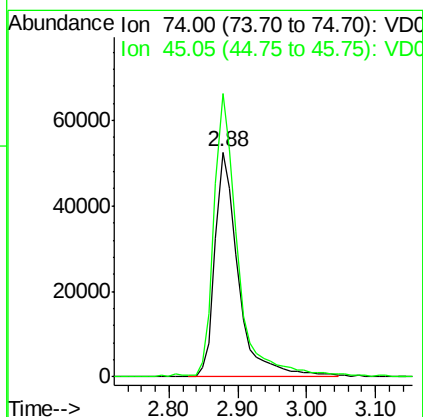
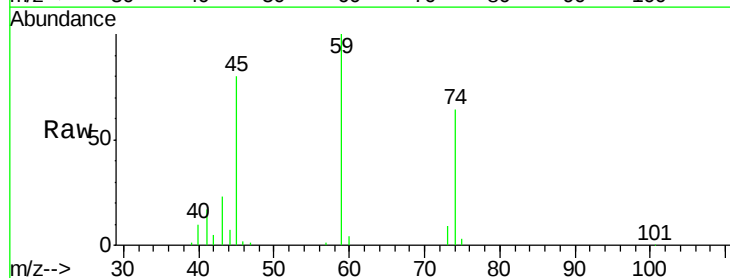
MMDadoda
3/26/2019 11:59:51 AM

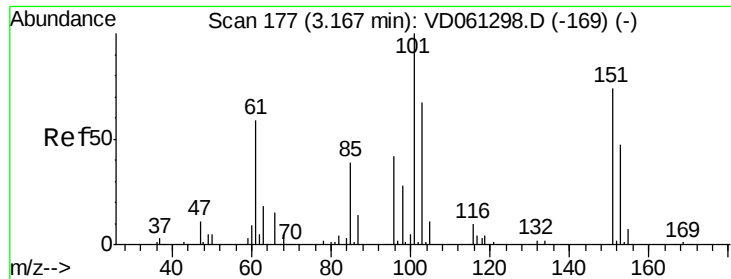


#8

Diethyl Ether
Concen: 71.457 ug/l
RT: 2.88 min Scan# 148
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 74 Resp: 124689
Ion Ratio Lower Upper
74 100
45 125.8 64.3 192.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 59.306 ug/l

RT: 3.16 min Scan# 177

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

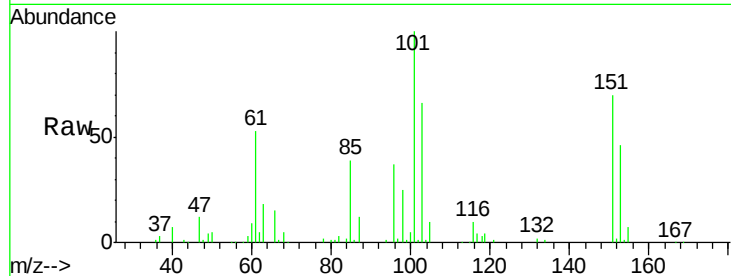
ClientSampleId :

WP022SB439-190318-(13-14)MSD

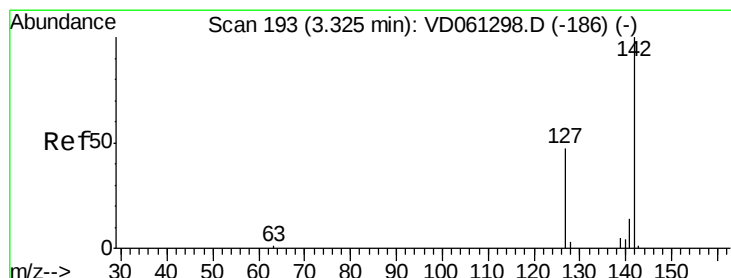
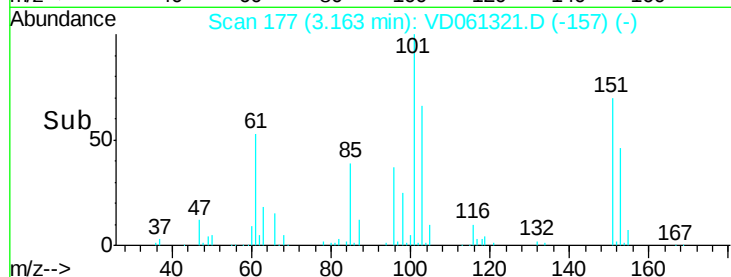
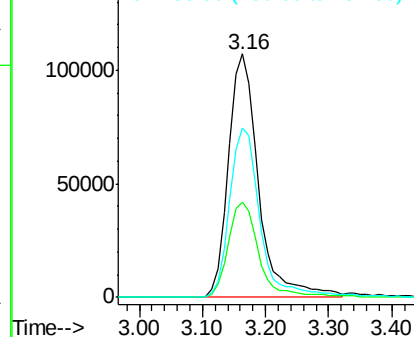
Tot Ion:	101	Resp:	354256
Ion Ratio	Lower	Upper	
101	100		
85	39.1	31.6	47.4
151	69.7	59.3	88.9

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



Abundance Ion 100.85 (100.55 to 101.55): V
Ion 84.95 (84.65 to 85.65): V
Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 75.082 ug/l

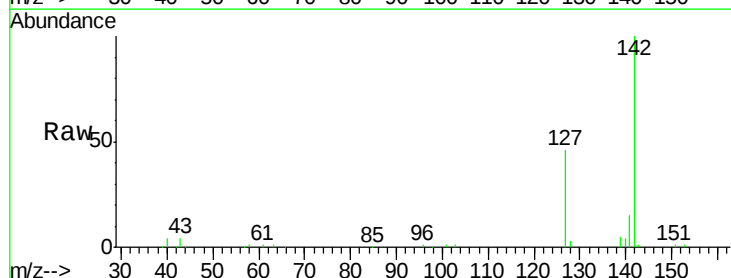
RT: 3.32 min Scan# 193

Delta R.T. -0.00 min

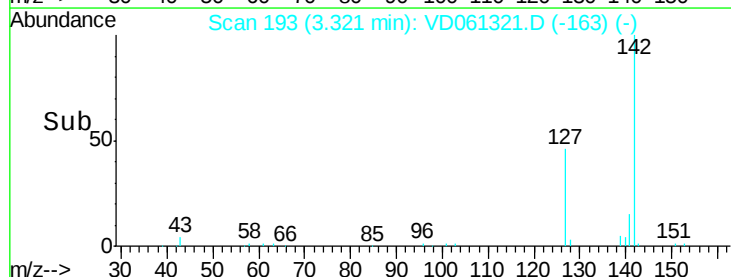
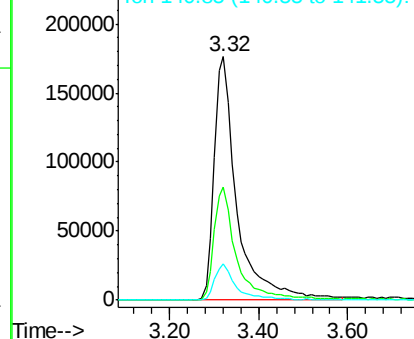
Lab File: VD061321.D

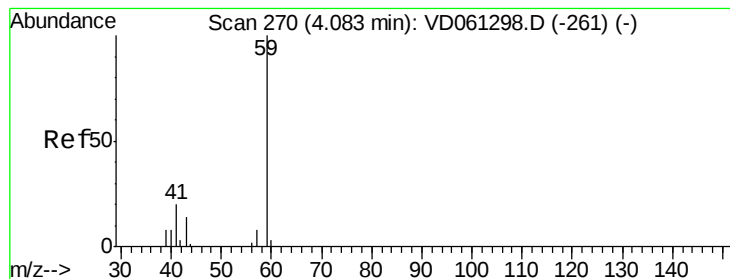
Acq: 26 Mar 2019 2:26

Tgt Ion:	142	Resp:	626567
Ion Ratio	Lower	Upper	
142	100		
127	46.5	37.8	56.6
141	14.8	11.6	17.4



Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V





#11

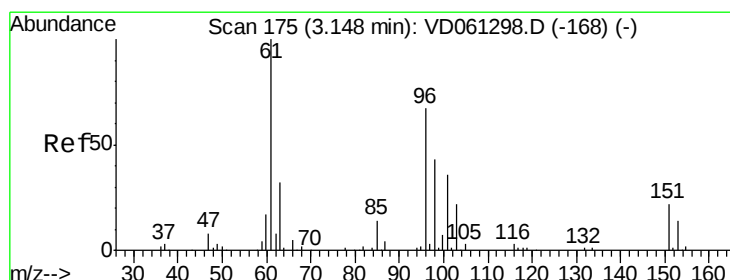
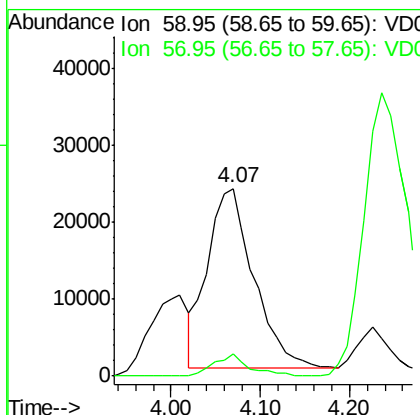
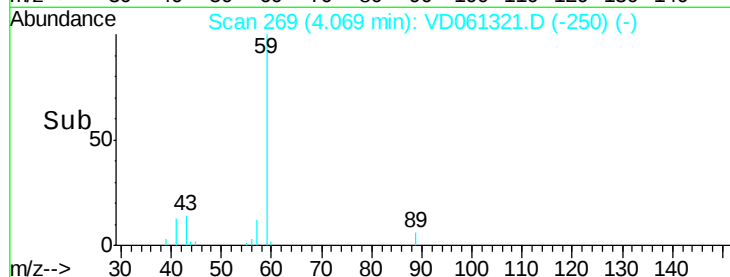
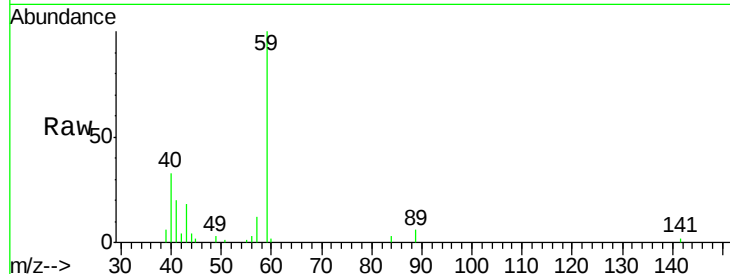
Tert butyl alcohol
Concen: 343.830 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 59 Resp: 84072
Ion Ratio Lower Upper
59 100
57 11.7 6.6 9.8#

Manual Integrations
APPROVED

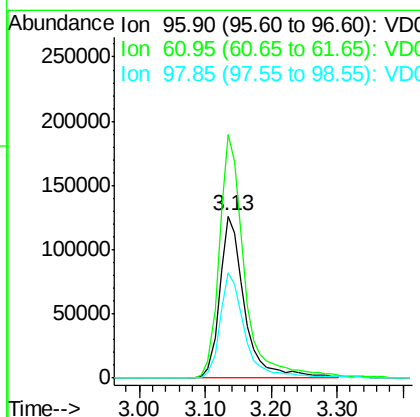
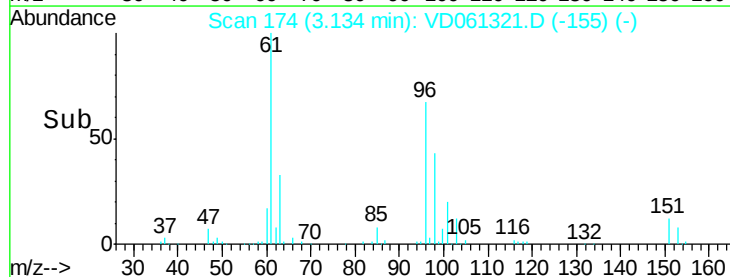
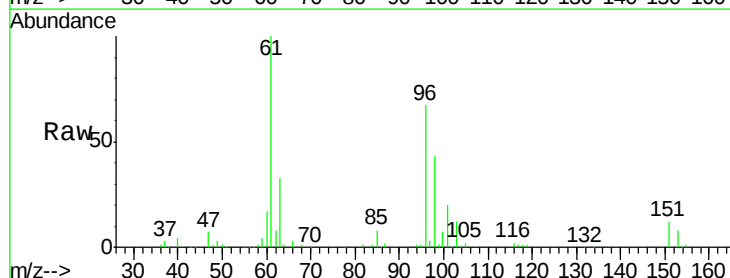
MMDadoda
3/26/2019 11:59:51 AM

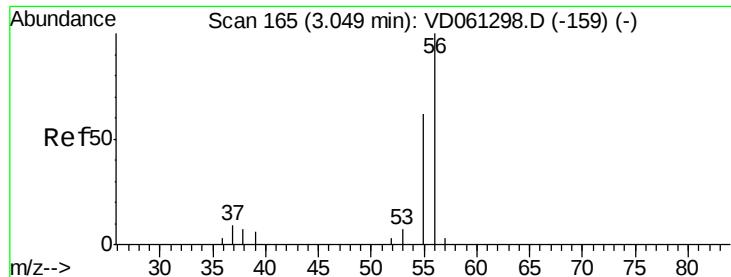


#12

1,1-Dichloroethene
Concen: 64.497 ug/l
RT: 3.13 min Scan# 174
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 96 Resp: 331506
Ion Ratio Lower Upper
96 100
61 150.2 120.2 180.2
98 65.0 52.2 78.4





#13

Acrolein

Concen: 141.889 ug/l

RT: 3.05 min Scan# 165

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 56 Resp: 37976

Ion Ratio Lower Upper

56 100

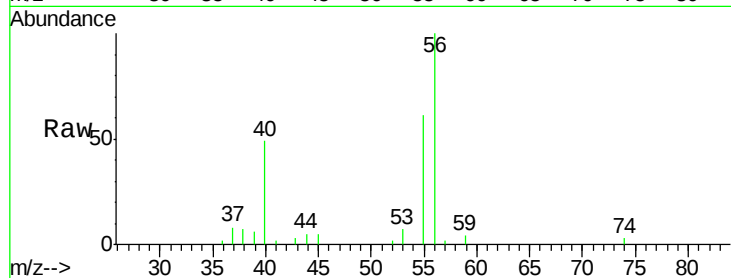
55 60.9 49.8 74.6

Manual Integrations

APPROVED

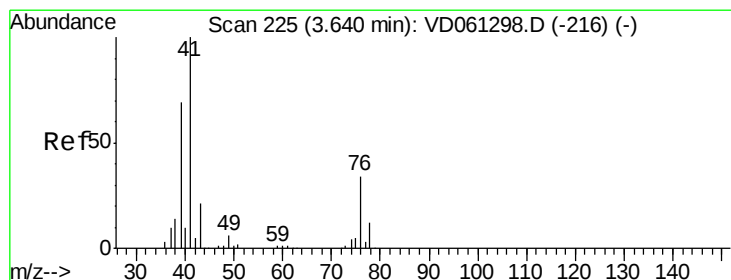
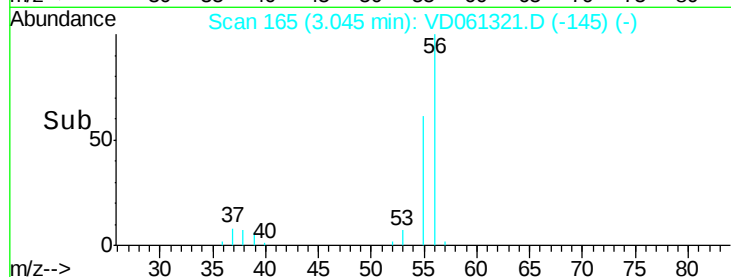
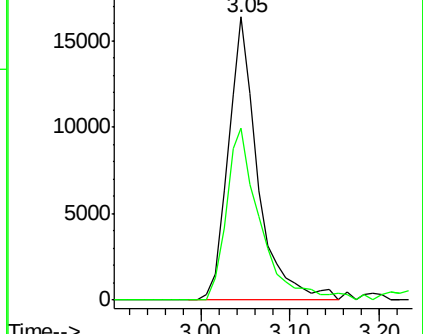
MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 66.394 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

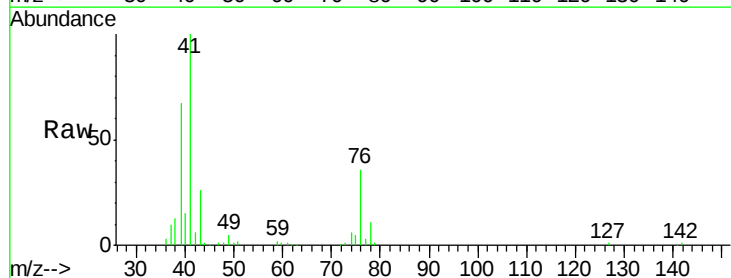
Tgt Ion: 41 Resp: 484100

Ion Ratio Lower Upper

41 100

39 66.9 55.1 82.7

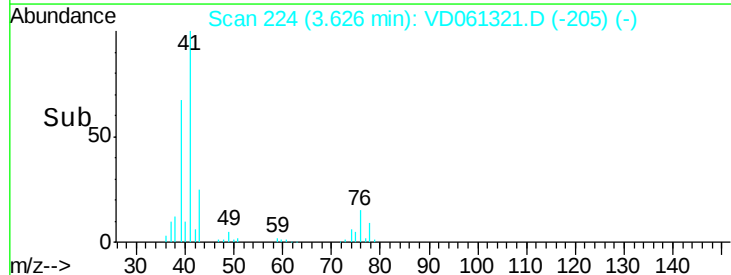
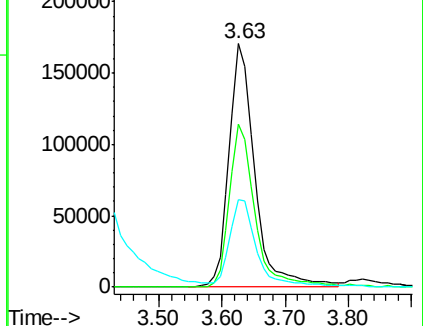
76 36.0 30.2 45.2

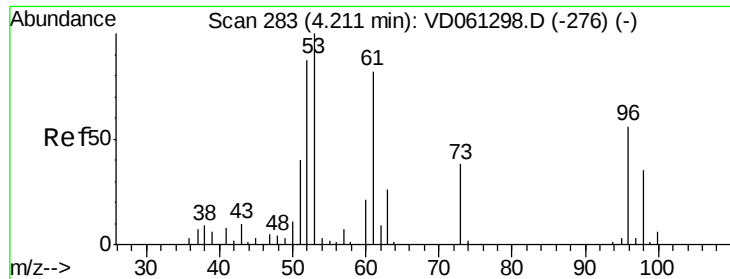


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





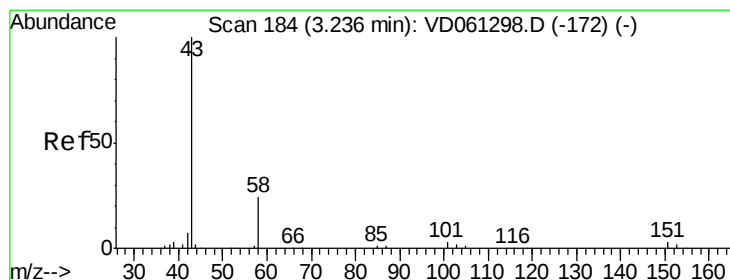
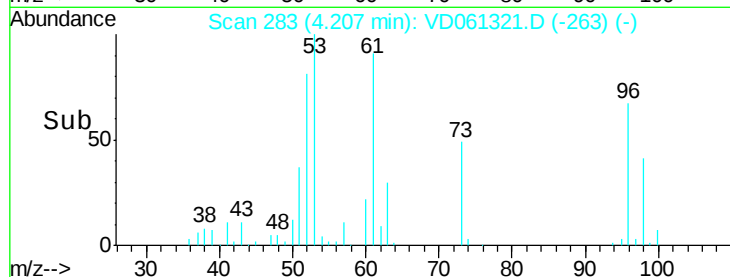
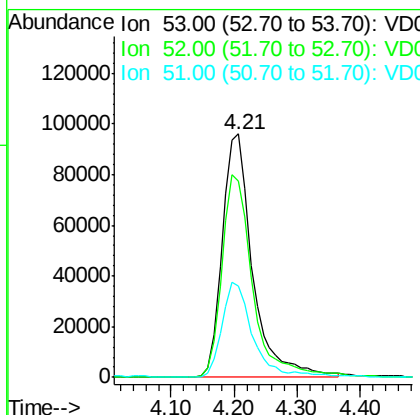
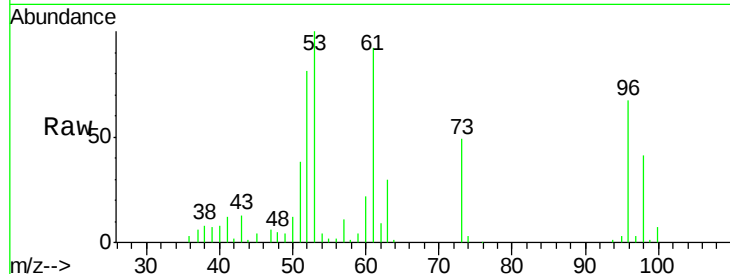
#15
 Acrylonitrile
 Concen: 374.833 ug/l
 RT: 4.21 min Scan# 283
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	53	Resp	322326
Ion Ratio	Lower	Upper	
53	100		
52	80.8	69.4	104.2
51	37.6	31.7	47.5

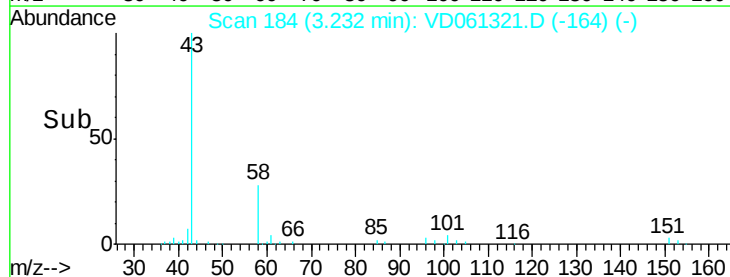
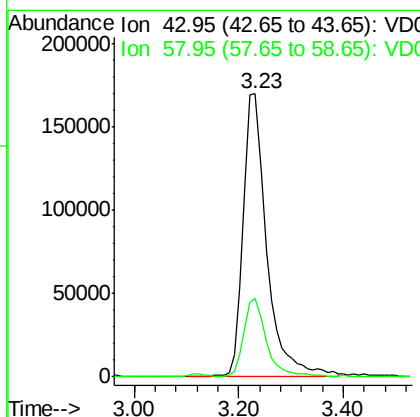
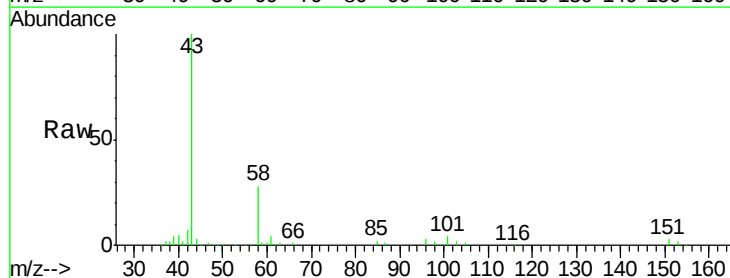
Manual Integrations
 APPROVED

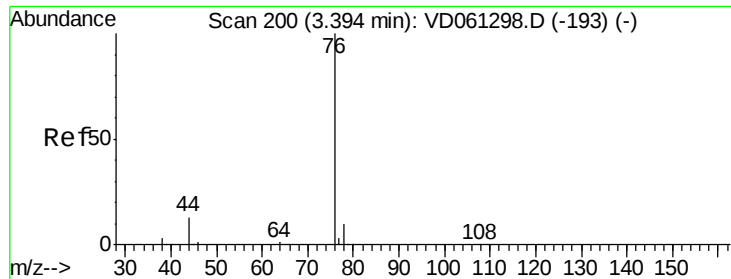
MMDadoda
 3/26/2019 11:59:51 AM



#16
 Acetone
 Concen: 473.660 ug/l
 RT: 3.23 min Scan# 184
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion	43	Resp	520409
Ion Ratio	Lower	Upper	
43	100		
58	27.6	19.4	29.0





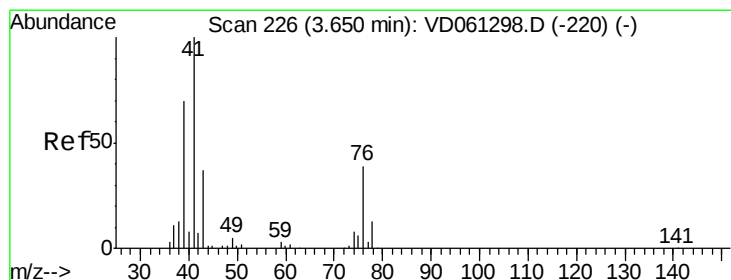
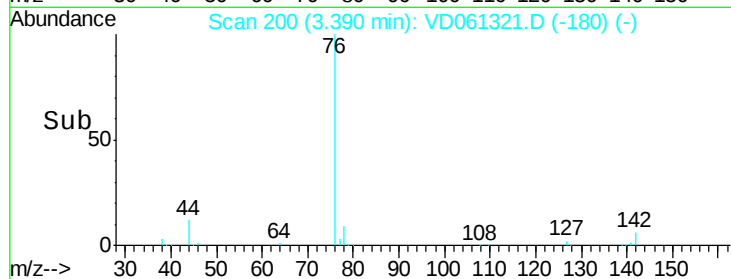
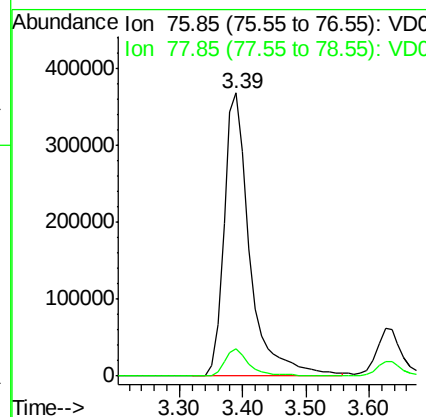
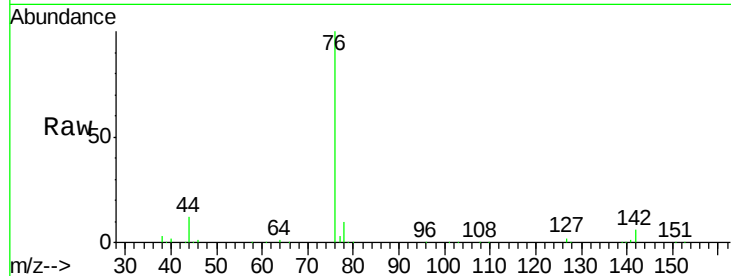
#17
Carbon Disulfide
Concen: 61.473 ug/l
RT: 3.39 min Scan# 200
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 1049366
Ion Ratio Lower Upper
76 100
78 9.6 7.8 11.6

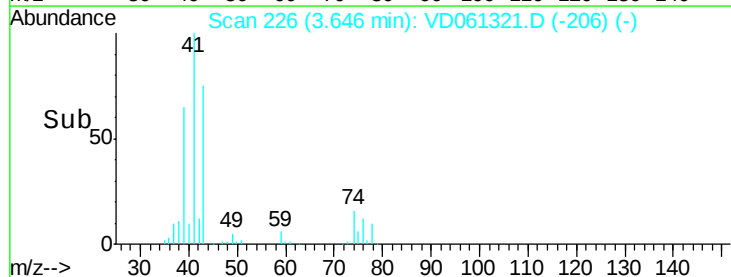
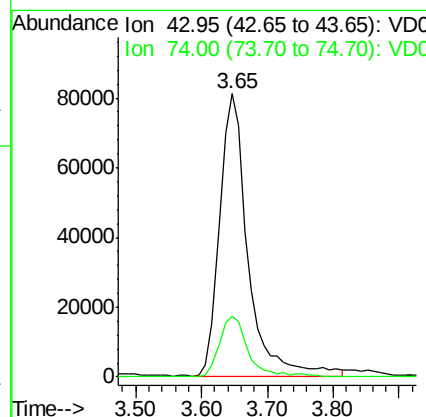
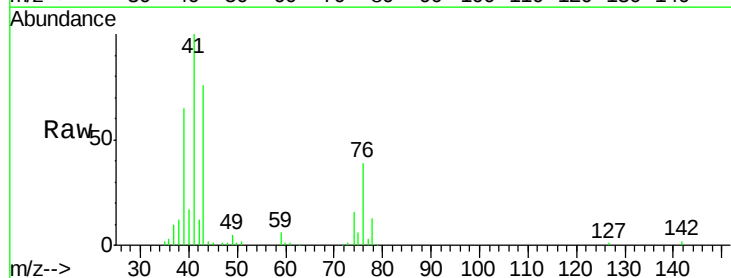
Manual Integrations
APPROVED

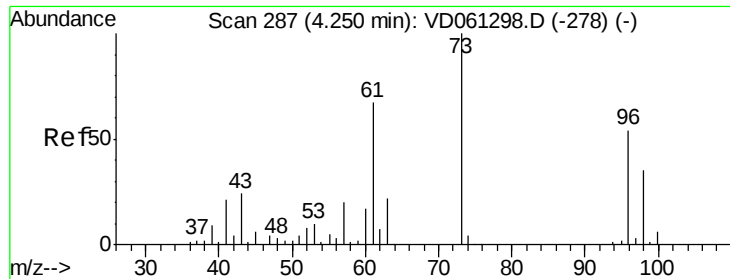
MMDadoda
3/26/2019 11:59:51 AM



#18
Methyl Acetate
Concen: 117.910 ug/l
RT: 3.65 min Scan# 226
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 43 Resp: 244869
Ion Ratio Lower Upper
43 100
74 21.6 16.6 25.0





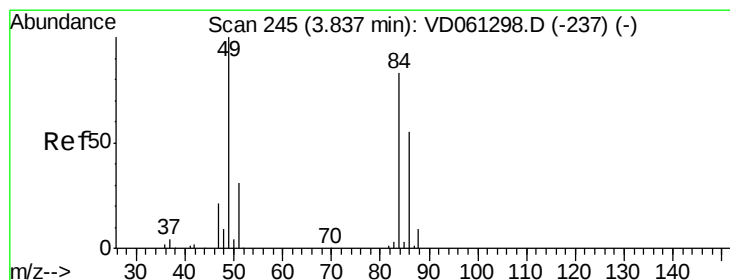
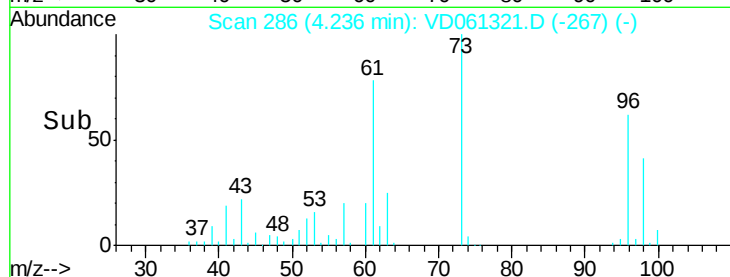
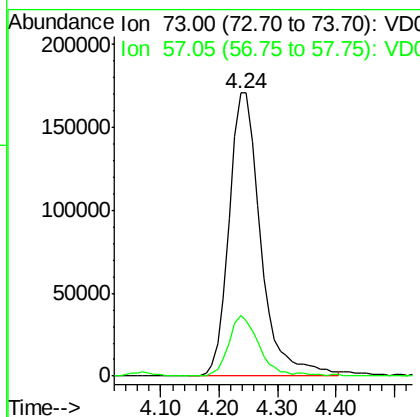
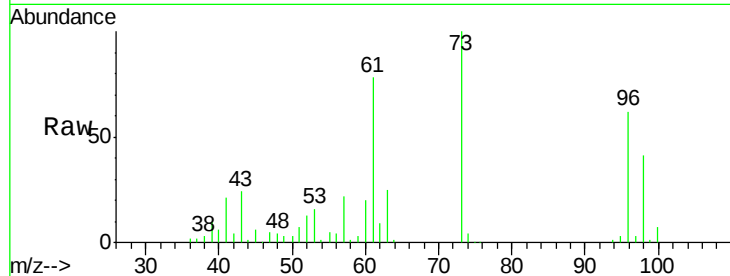
#19
Methyl tert-butyl Ether
Concen: 71.607 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 73 Resp: 648173
Ion Ratio Lower Upper
73 100
57 21.6 16.3 24.5

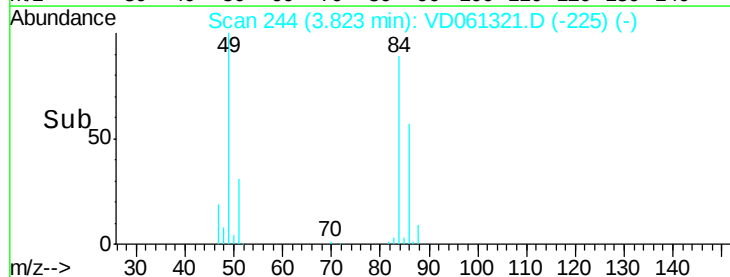
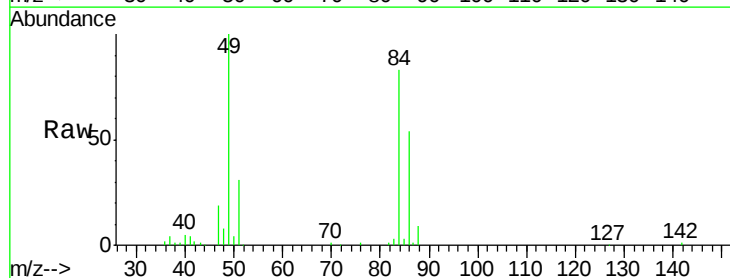
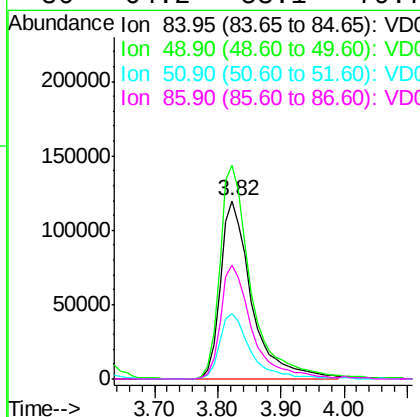
Manual Integrations
APPROVED

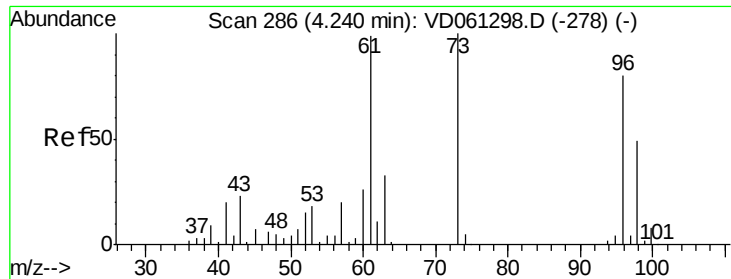
MMDadoda
3/26/2019 11:59:51 AM



#20
Methylene Chloride
Concen: 66.098 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 84 Resp: 412175
Ion Ratio Lower Upper
84 100
49 119.9 96.8 145.2
51 37.0 29.9 44.9
86 64.2 53.1 79.7





#21

trans-1,2-Dichloroethene

Concen: 65.974 ug/l

RT: 4.23 min Scan# 285

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

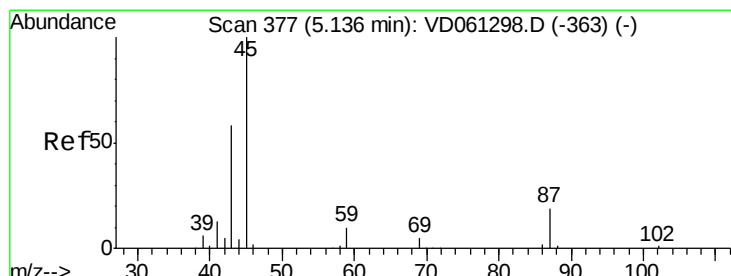
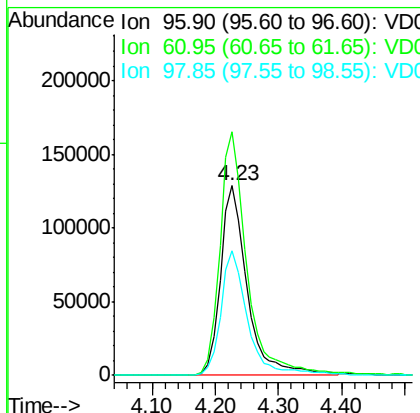
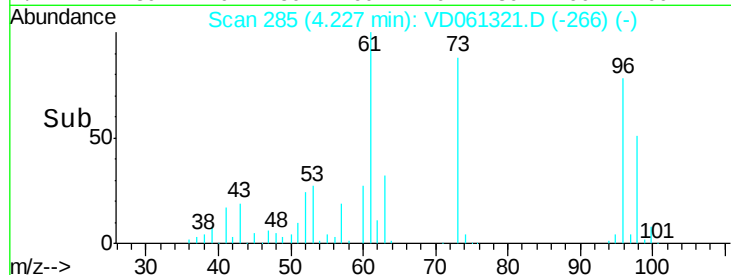
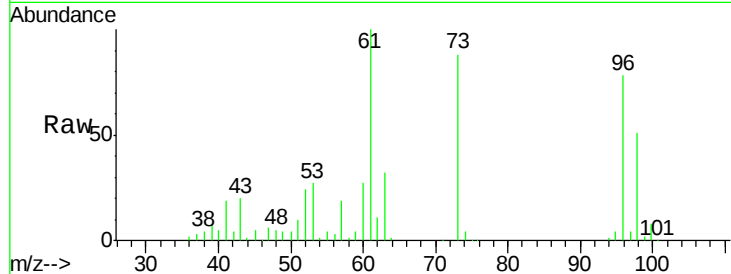
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	96	Resp:	379356
Ion	Ratio	Lower	Upper
96	100		
61	128.3	99.2	148.8
98	65.3	49.2	73.8

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



#22

Diisopropyl ether

Concen: 74.700 ug/l

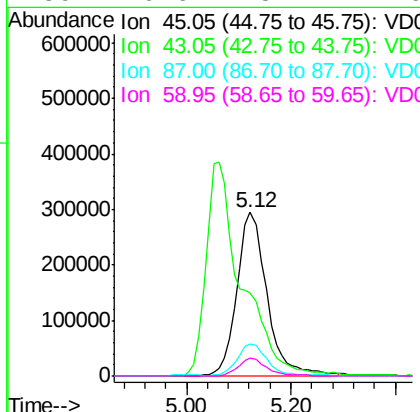
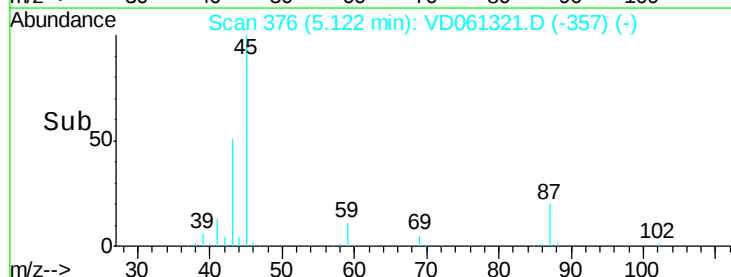
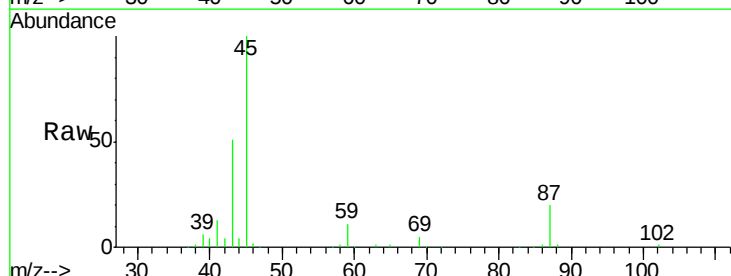
RT: 5.12 min Scan# 376

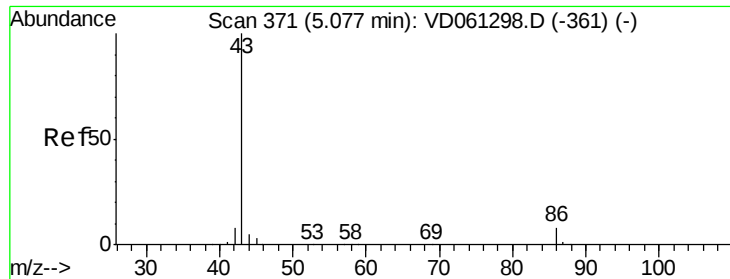
Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion:	45	Resp:	1147377
Ion	Ratio	Lower	Upper
45	100		
43	51.2	46.7	70.1
87	20.0	15.5	23.3
59	10.6	8.4	12.6





#23

Vinyl Acetate

Concen: 218.051 ug/l

RT: 5.06 min Scan# 370

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 1788786

Ion Ratio Lower Upper

43 100

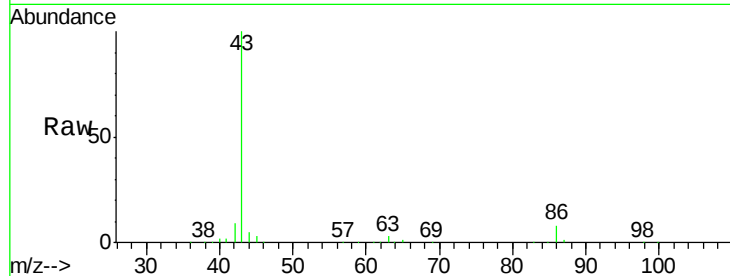
86 8.4 6.3 9.5

Manual Integrations

APPROVED

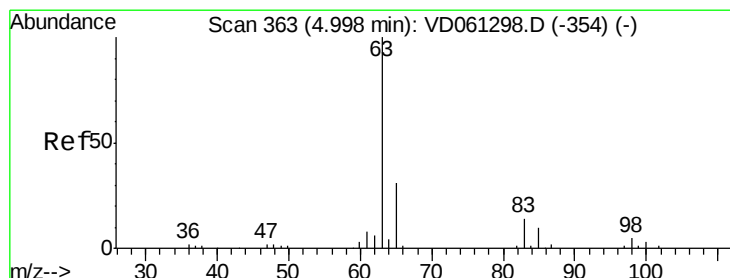
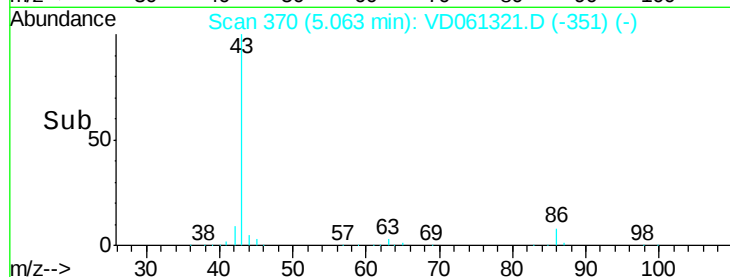
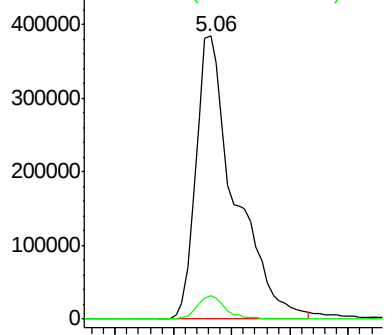
MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 66.816 ug/l

RT: 4.98 min Scan# 362

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

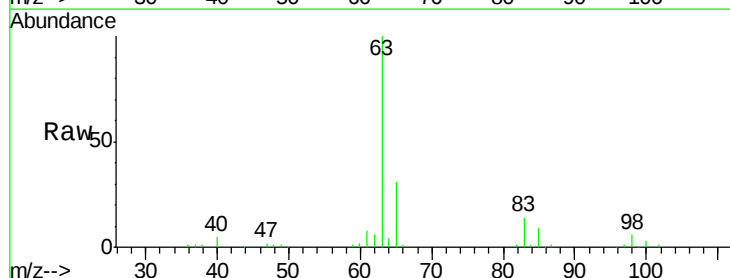
Tgt Ion: 63 Resp: 598056

Ion Ratio Lower Upper

63 100

98 5.5 2.8 8.3

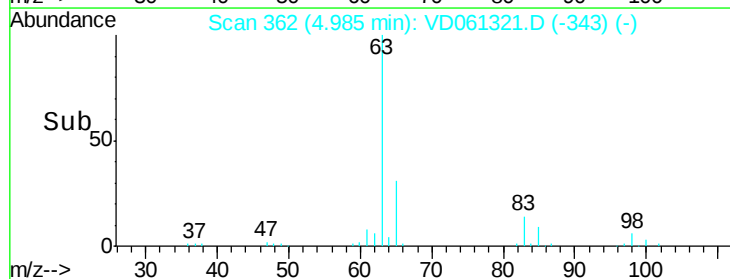
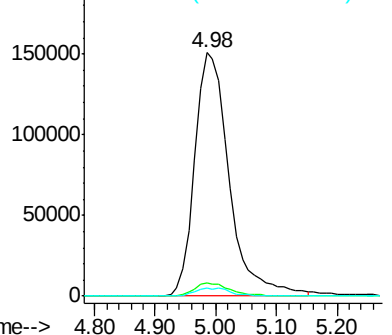
100 3.3 1.6 4.8

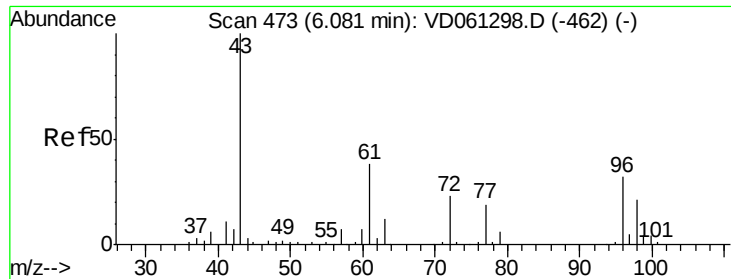


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 408.794 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 519494

Ion Ratio Lower Upper

43 100

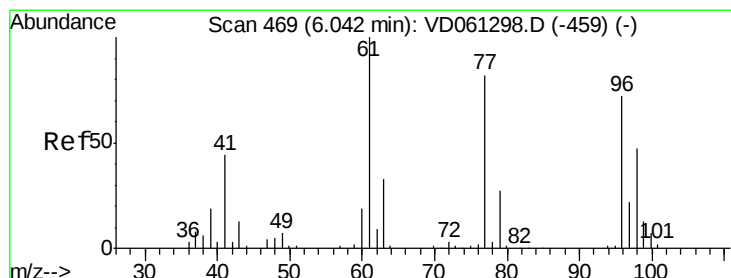
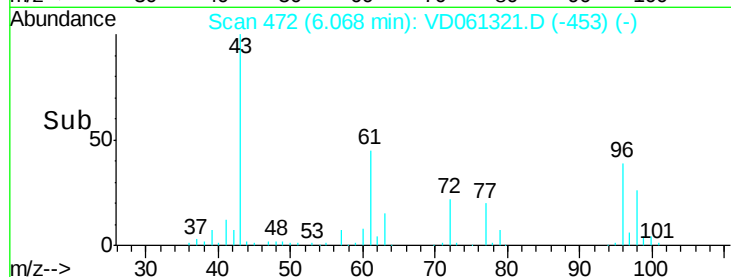
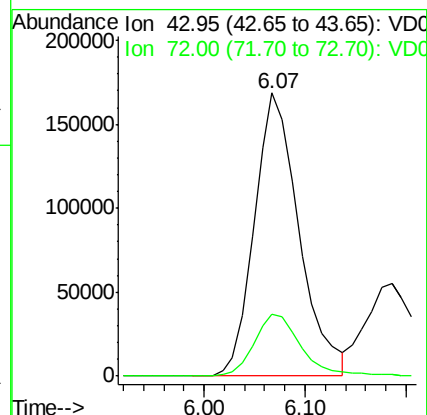
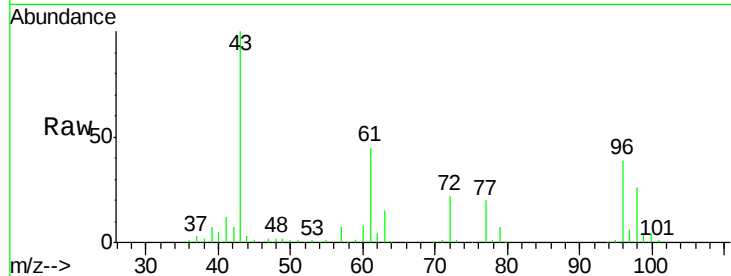
72 22.1 18.5 27.7

Manual Integrations

APPROVED

MMDadoda

3/26/2019 11:59:51 AM



#26

2,2-Dichloropropane

Concen: 59.681 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.01 min

Lab File: VD061321.D

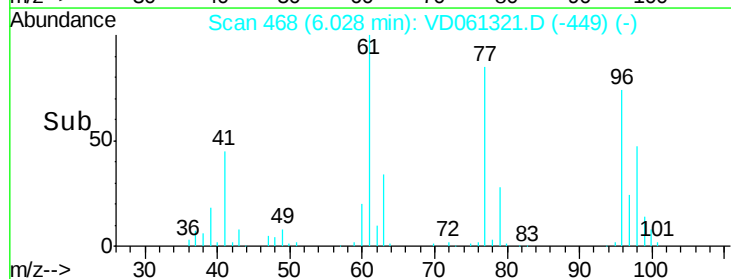
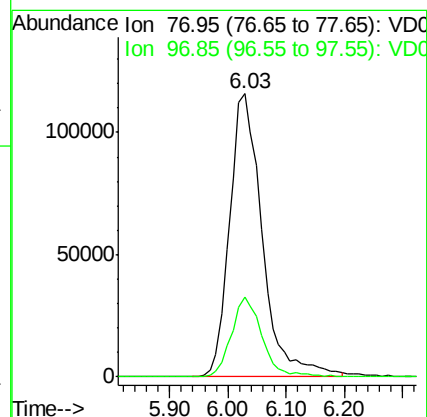
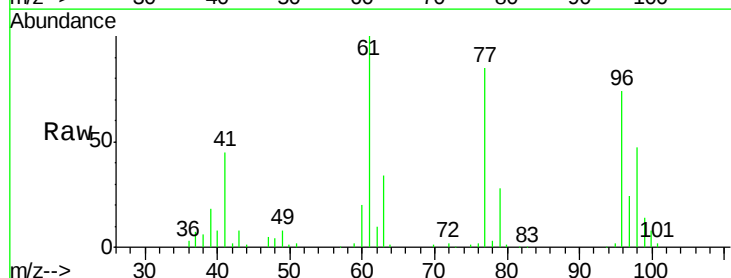
Acq: 26 Mar 2019 2:26

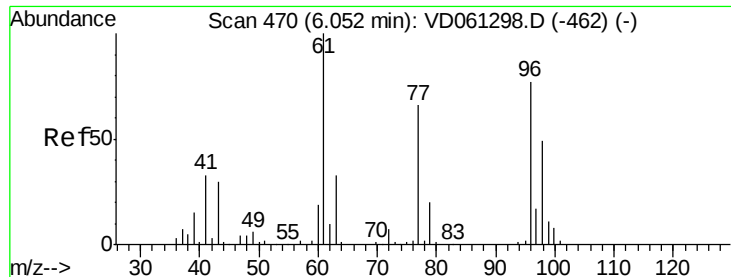
Tgt Ion: 77 Resp: 453593

Ion Ratio Lower Upper

77 100

97 28.3 13.5 40.5





#27

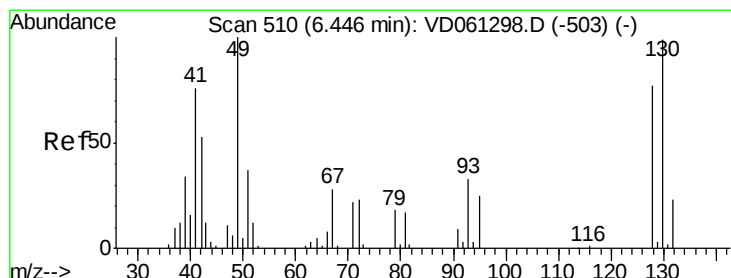
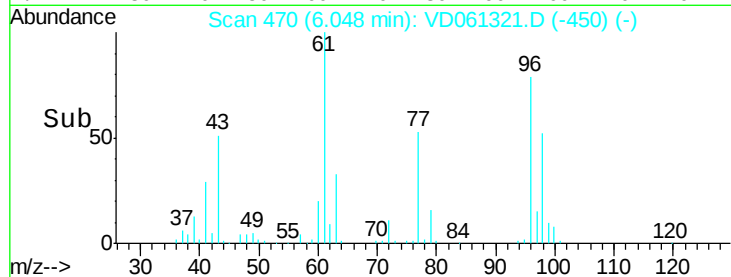
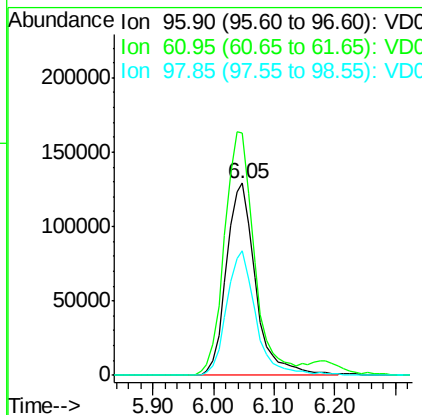
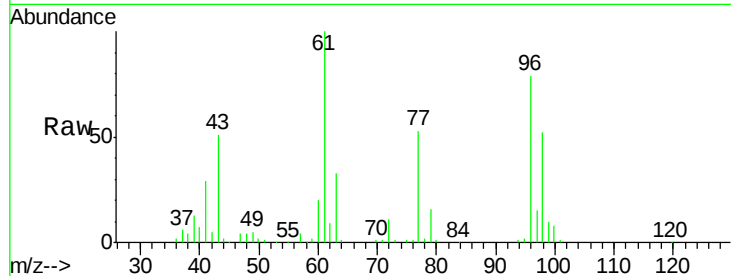
cis-1,2-Dichloroethene
Concen: 70.012 ug/l
RT: 6.05 min Scan# 470
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
96	100	433221		
61	126.4	0.0	261.0	
98	65.2	0.0	127.6	

Manual Integrations
APPROVED

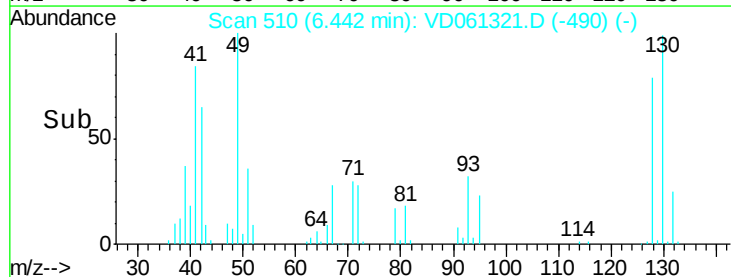
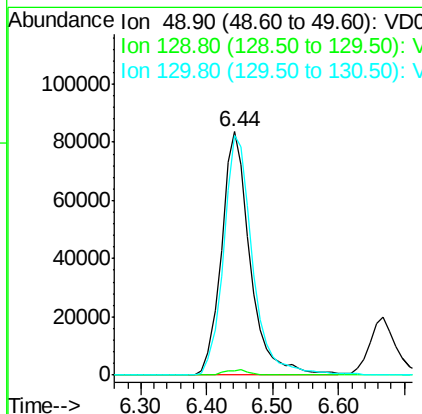
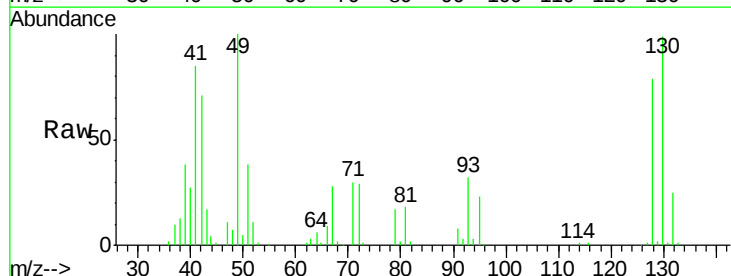
MMDadoda
3/26/2019 11:59:51 AM

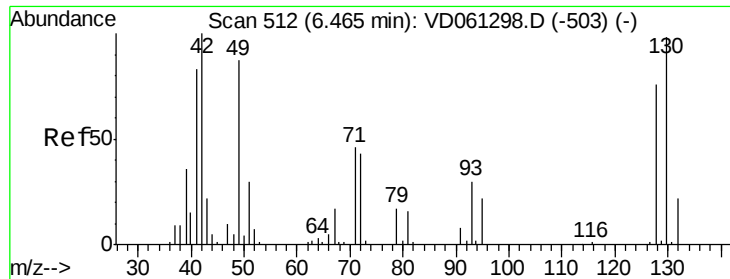


#28

Bromochloromethane
Concen: 67.692 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	253606		
129	1.9	0.0	5.2	
130	98.7	79.0	118.6	





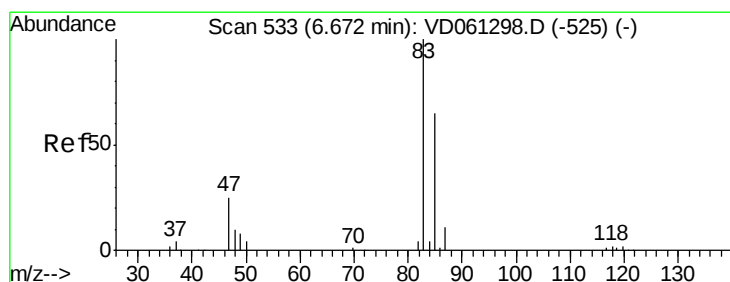
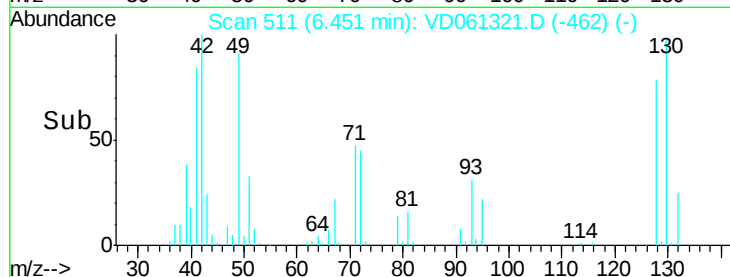
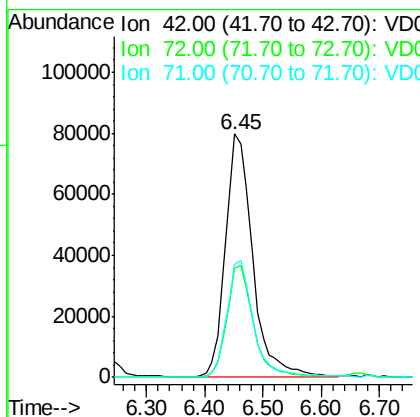
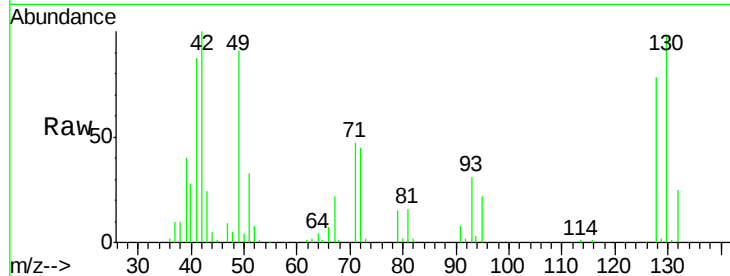
#29
Tetrahydrofuran
Concen: 411.995 ug/l
RT: 6.45 min Scan# 511
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
42	100	260603		
72	44.8		36.6	54.8
71	45.8		36.3	54.5

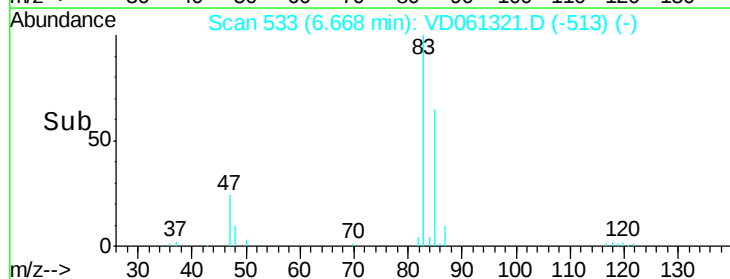
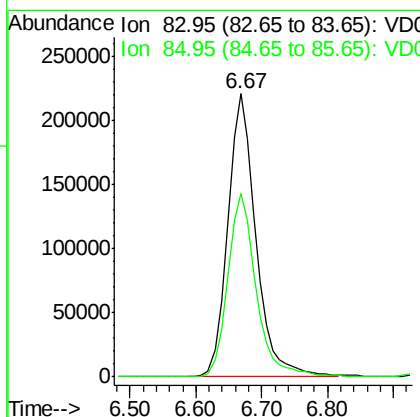
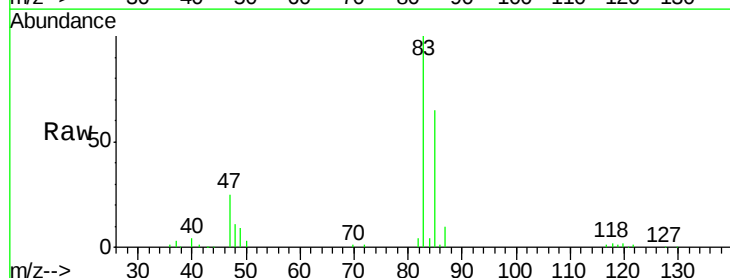
Manual Integrations
APPROVED

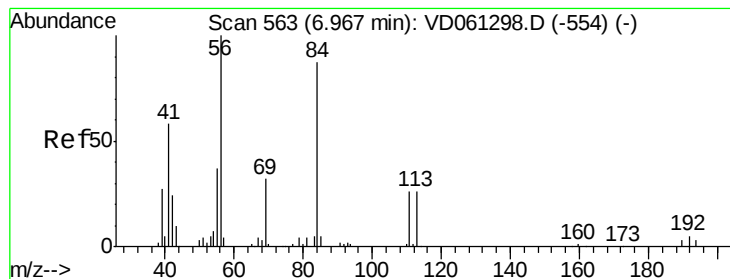
MMDadoda
3/26/2019 11:59:51 AM



#30
Chloroform
Concen: 69.242 ug/l
RT: 6.67 min Scan# 533
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	660444		
85	64.7		52.2	78.2





#31

Cyclohexane

Concen: 61.129 ug/l

RT: 6.96 min Scan# 563

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

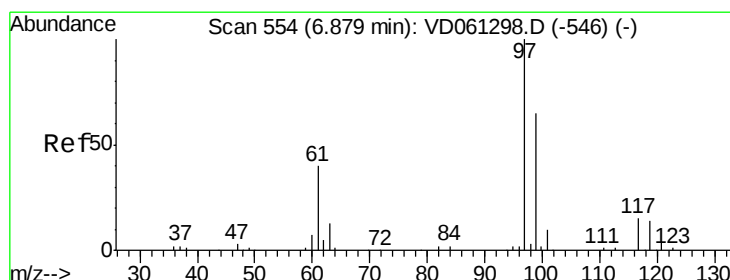
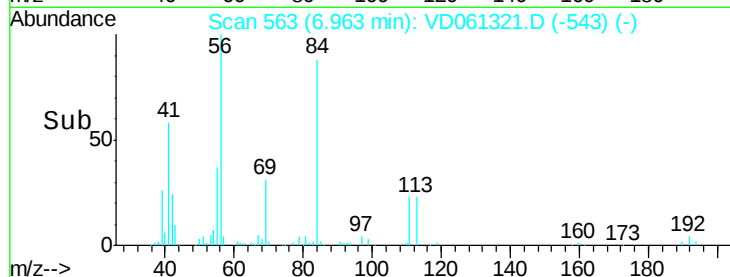
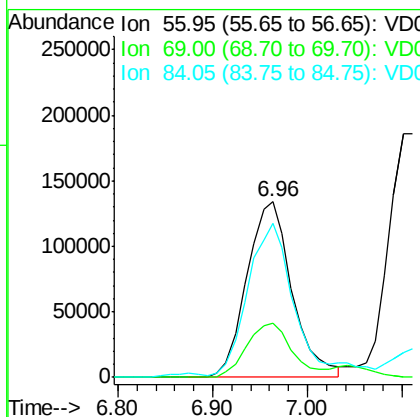
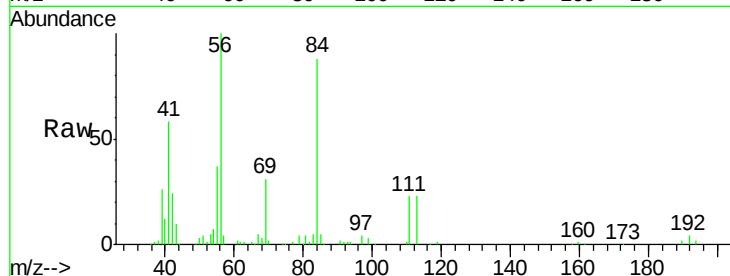
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	56	Resp:	444090
Ion	Ratio	Lower	Upper
56	100		
69	31.0	25.5	38.3
84	87.8	71.4	107.2

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



#32

1,1,1-Trichloroethane

Concen: 61.206 ug/l

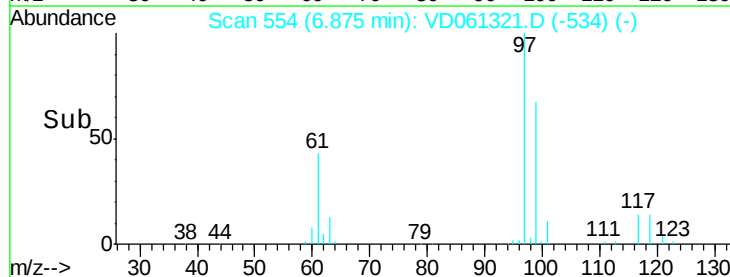
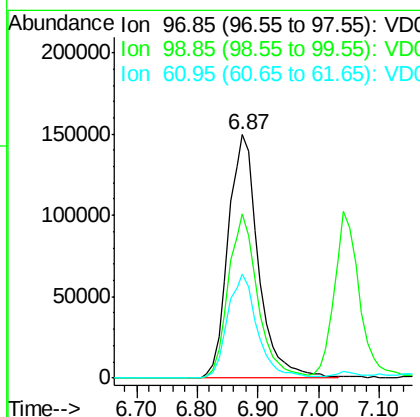
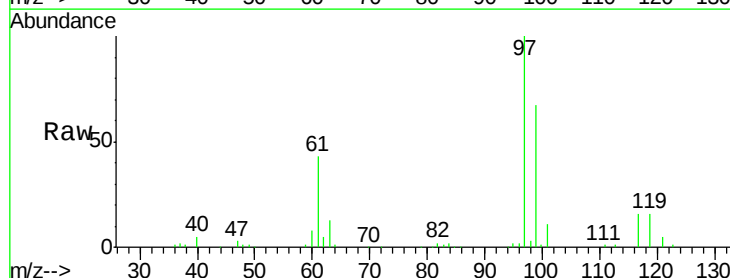
RT: 6.87 min Scan# 554

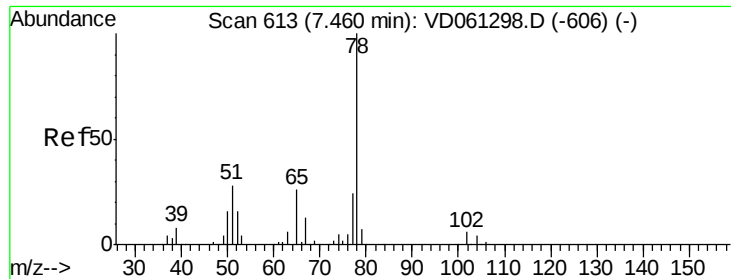
Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion:	97	Resp:	517044
Ion	Ratio	Lower	Upper
97	100		
99	67.4	51.8	77.6
61	42.6	31.9	47.9





#33

1,2-Dichloroethane-d4

Concen: 61.206 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 65 Resp: 281595

Ion Ratio Lower Upper

65 100

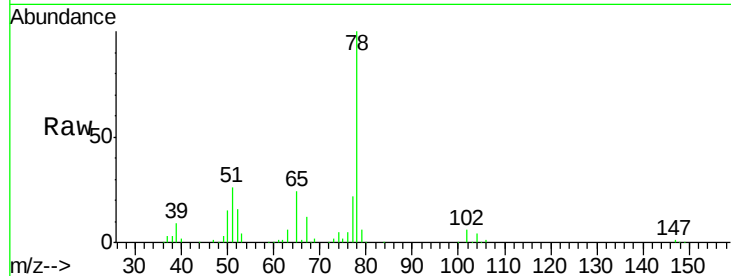
67 50.8 0.0 100.8

Manual Integrations

APPROVED

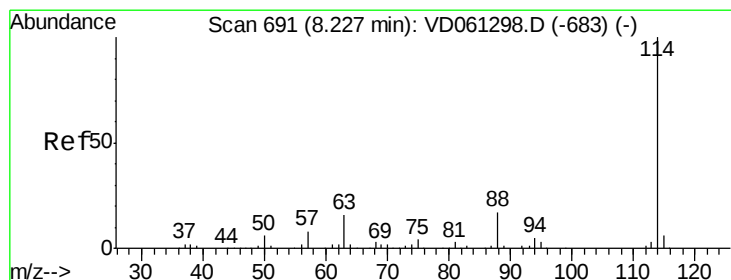
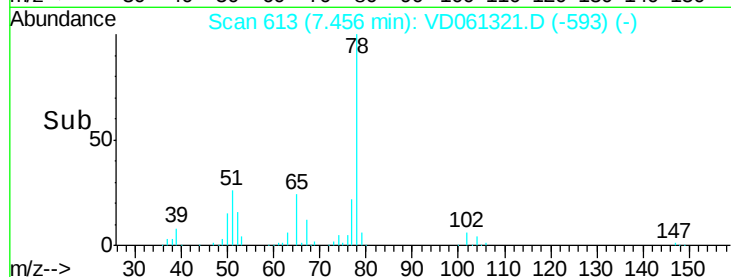
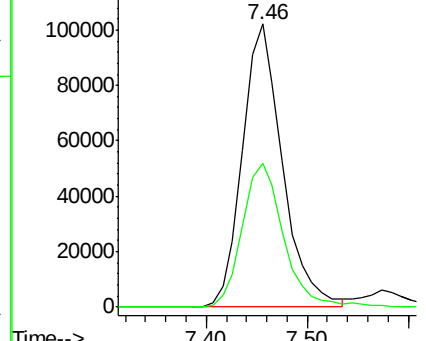
MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

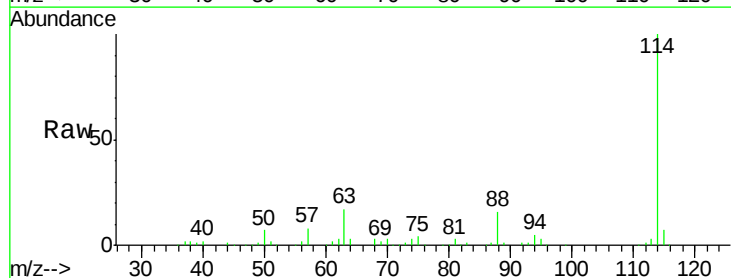
Tgt Ion: 114 Resp: 947875

Ion Ratio Lower Upper

114 100

63 16.6 0.0 31.4

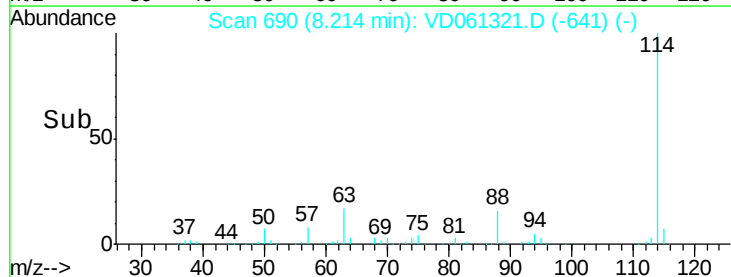
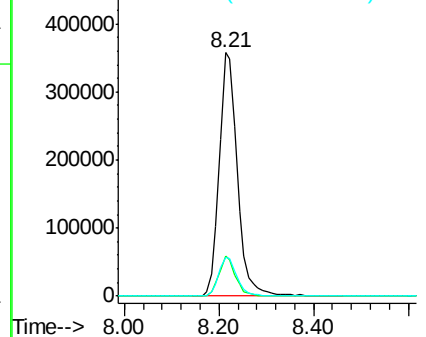
88 16.2 0.0 33.2

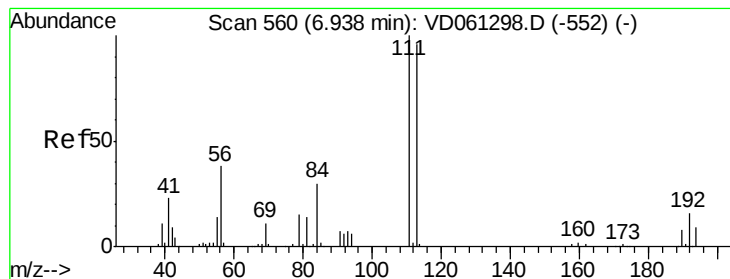


Abundance Ion 114.00 (113.70 to 114.70): VDC

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

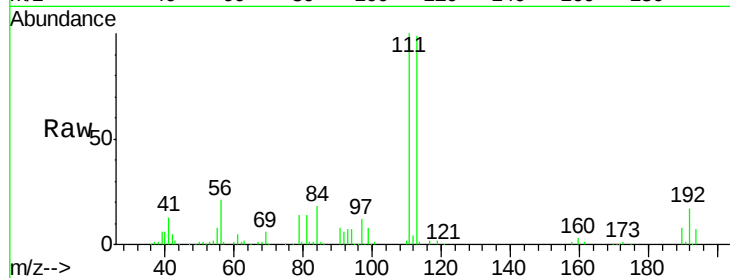
ClientSampleId :

WP022SB439-190318-(13-14)MSD

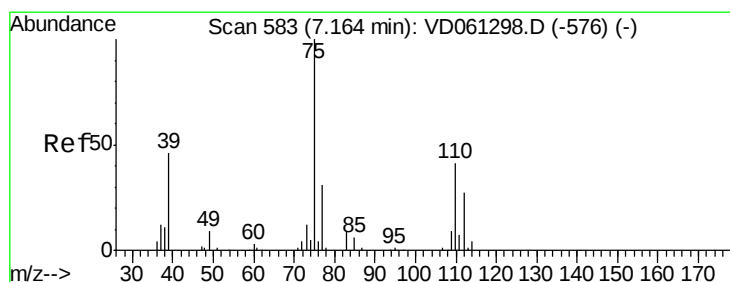
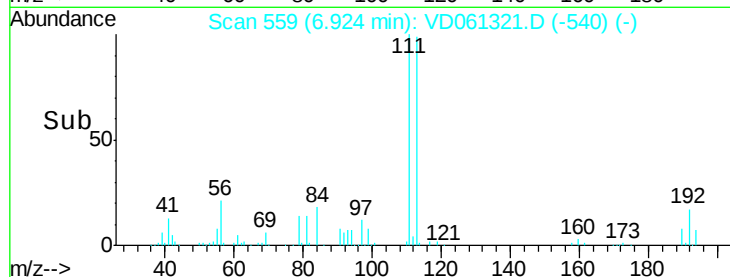
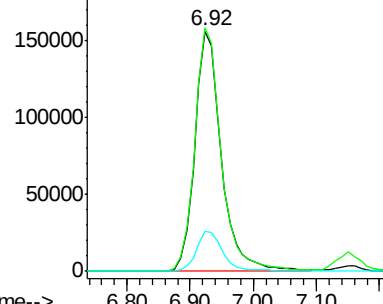
Tot Ion:	113	Resp:	454680
Ion	Ratio	Lower	Upper
113	100		
111	101.5	83.7	125.5
192	16.8	13.4	20.0

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 56.985 ug/l

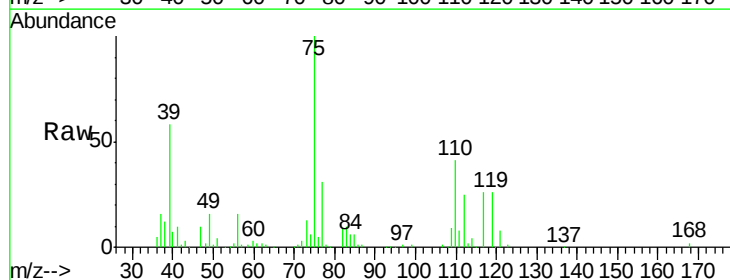
RT: 7.15 min Scan# 582

Delta R.T. -0.01 min

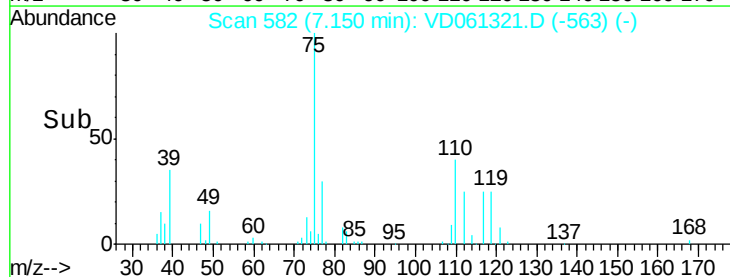
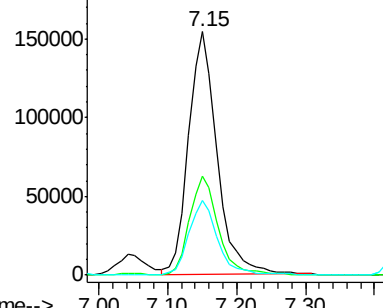
Lab File: VD061321.D

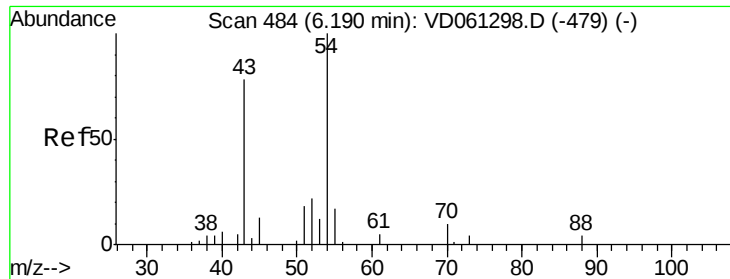
Acq: 26 Mar 2019 2:26

Tgt Ion:	75	Resp:	441926
Ion	Ratio	Lower	Upper
75	100		
110	40.8	20.1	60.2
77	30.8	24.3	36.5



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): V
Ion 76.95 (76.65 to 77.65): VDC





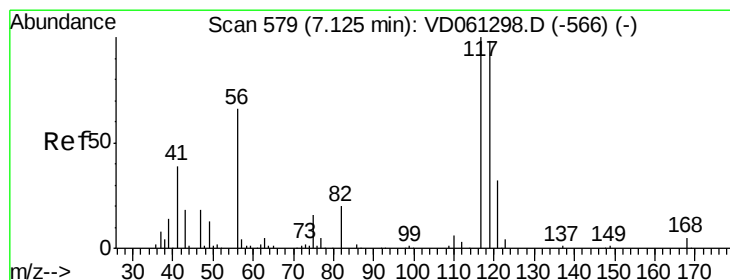
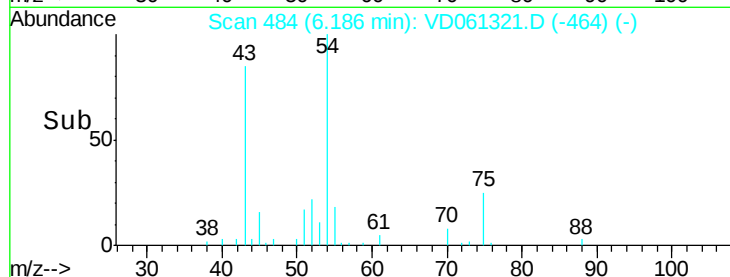
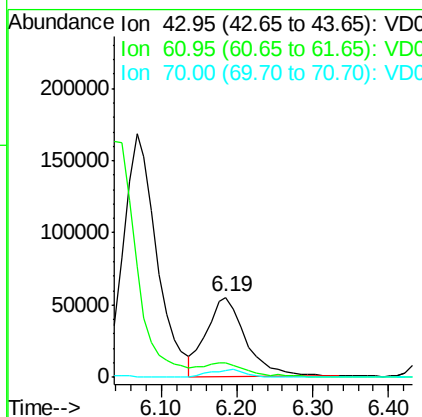
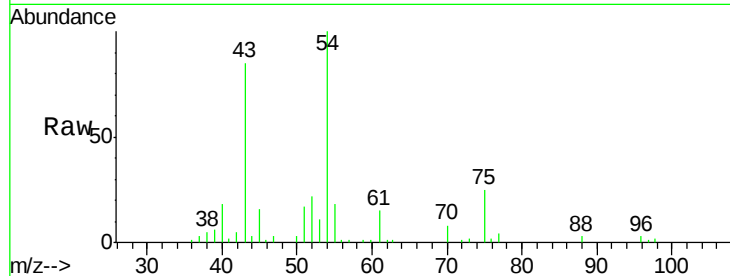
#37
Ethyl Acetate
Concen: 61.264 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
43	100		
61	18.1	12.6	19.0
70	9.0	8.2	12.4

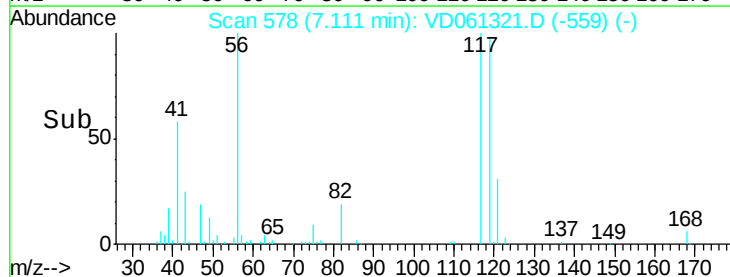
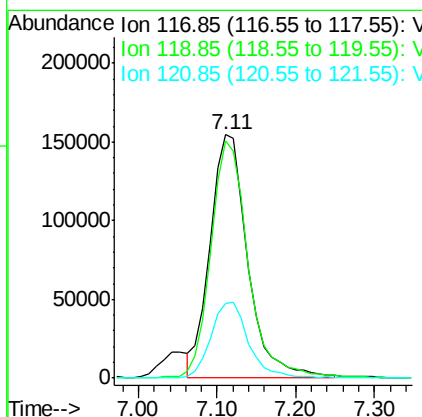
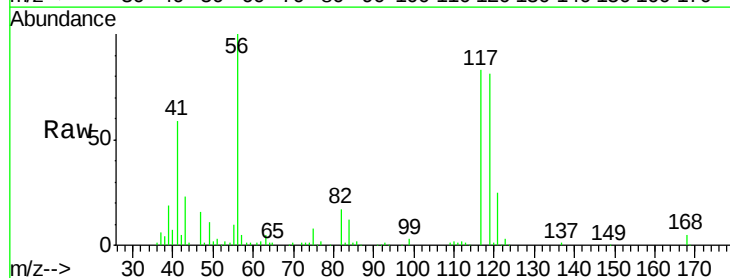
Manual Integrations
APPROVED

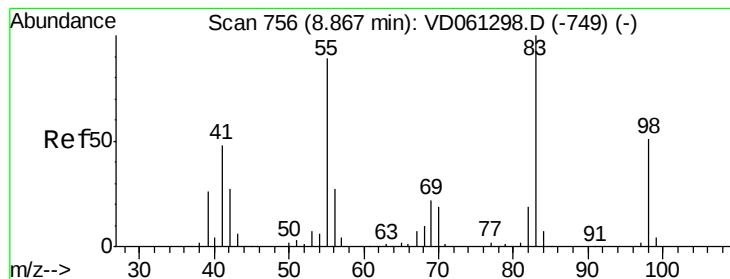
MMDadoda
3/26/2019 11:59:51 AM



#38
Carbon Tetrachloride
Concen: 58.717 ug/l m
RT: 7.11 min Scan# 578
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	78.4	117.6
121	30.6	25.1	37.7





#39

Methvlcvclohexane

Concen: 51.223 ug/l

RT: 8.86 min Scan# 756

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 83 Resp: 411412

Ion Ratio Lower Upper

83 100

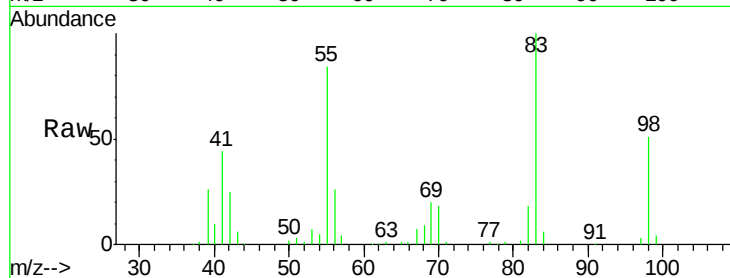
55 84.4 71.3 106.9

98 50.9 40.4 60.6

Manual Integrations
APPROVED

MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC

200000

150000

100000

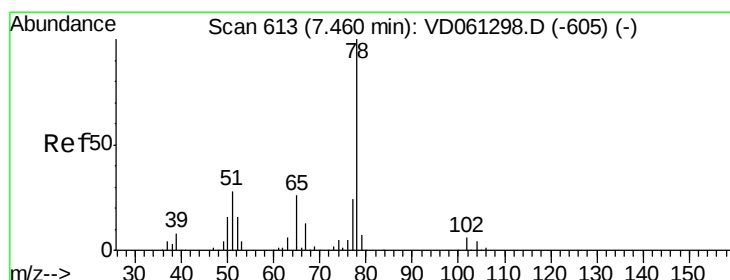
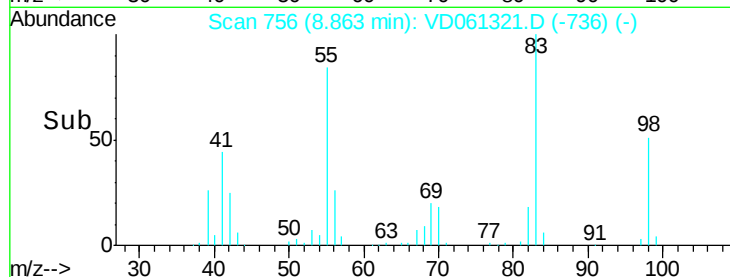
50000

0

8.86

8.70 8.80 8.90 9.00

Time-->



#40

Benzene

Concen: 63.481 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD061321.D

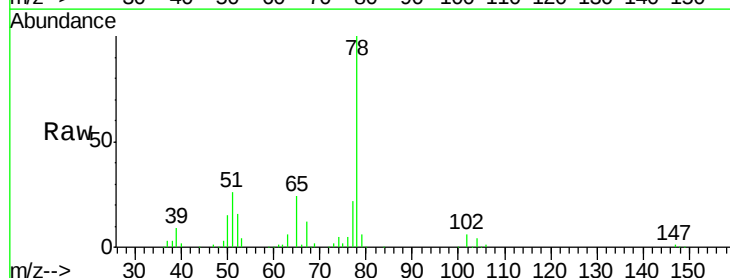
Acq: 26 Mar 2019 2:26

Tgt Ion: 78 Resp: 1222666

Ion Ratio Lower Upper

78 100

77 22.5 18.8 28.2



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

500000

400000

300000

200000

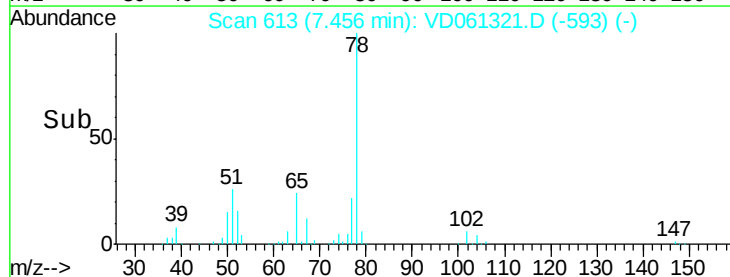
100000

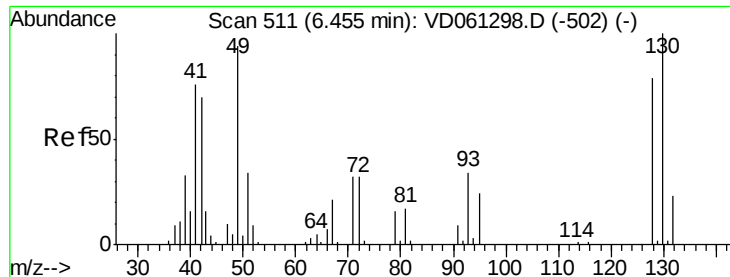
0

7.46

7.30 7.40 7.50 7.60

Time-->





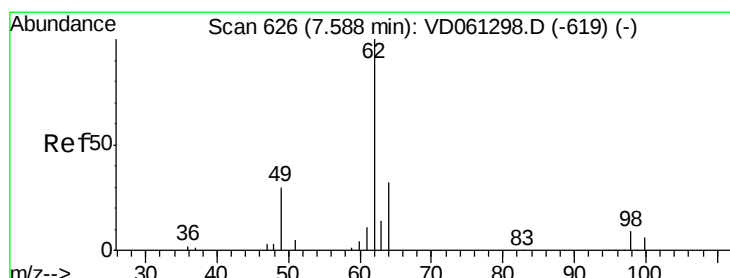
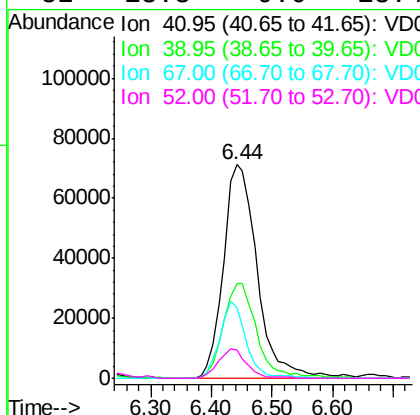
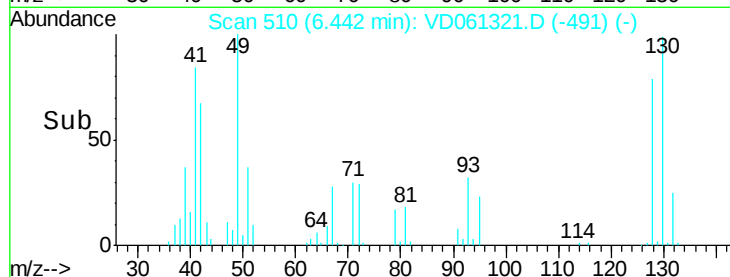
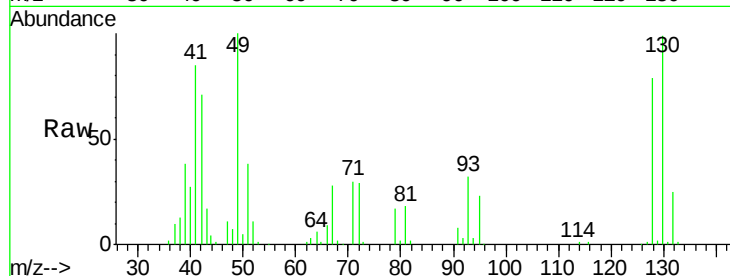
#41
Methacrylonitrile
Concen: 73.128 ug/l
RT: 6.44 min Scan# 510
Delta R.T. -0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
41	100			
39	44.6	34.2	51.2	
67	33.1	21.8	32.6	
52	13.3	9.0	13.4	

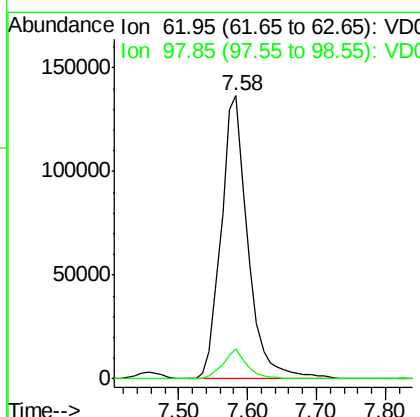
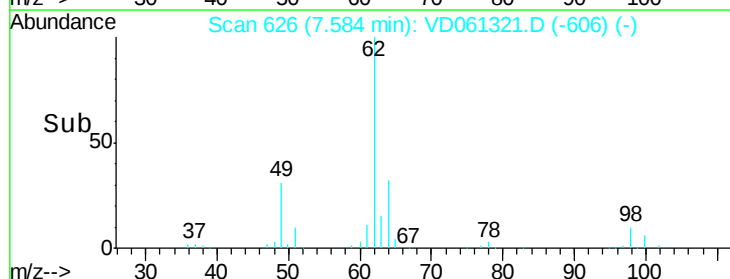
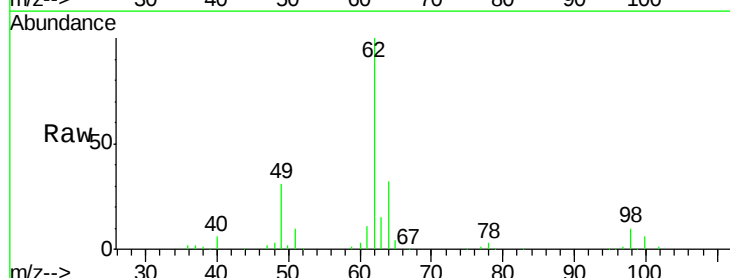
Manual Integrations
APPROVED

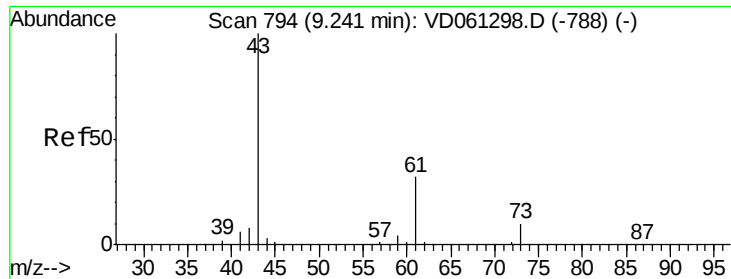
MMDadoda
3/26/2019 11:59:51 AM



#42
1,2-Dichloroethane
Concen: 61.284 ug/l
RT: 7.58 min Scan# 626
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
62	100			
98	10.4	0.0	18.6	





#43

Isopropyl Acetate

Concen: 59.568 ug/l

RT: 9.24 min Scan# 794

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

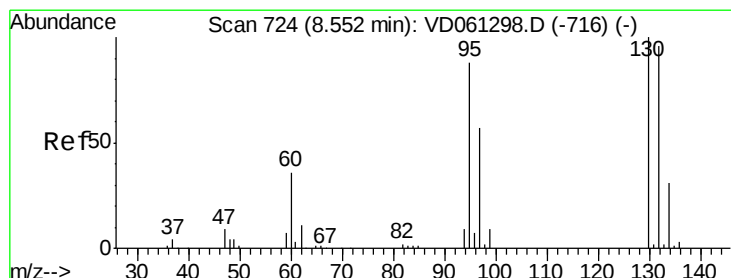
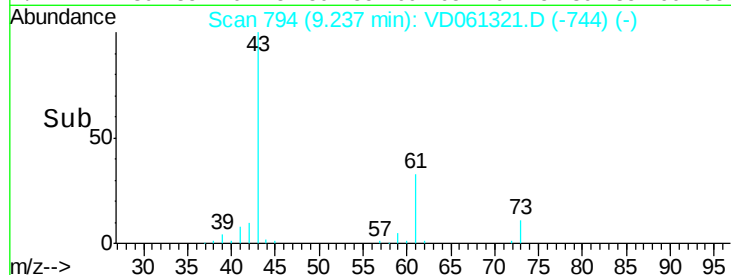
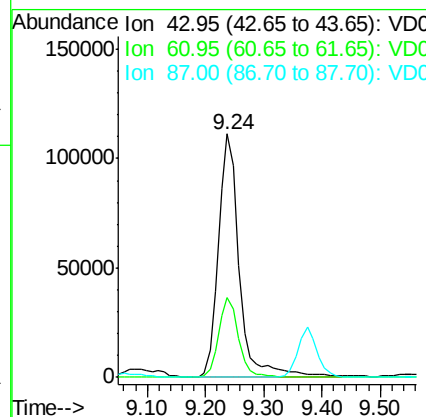
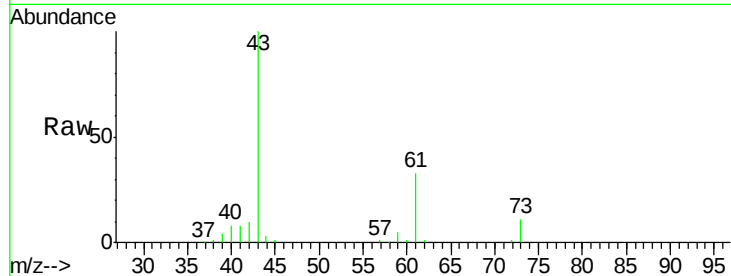
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	43	Resp:	278212
Ion	Ratio	Lower	Upper
43	100		
61	32.6	25.8	38.8
87	0.0	0.3	0.5

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



#44

Trichloroethene

Concen: 63.343 ug/l

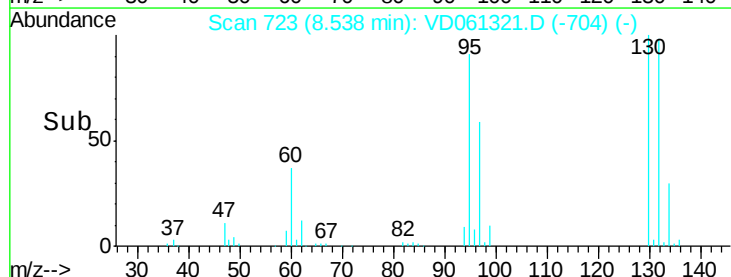
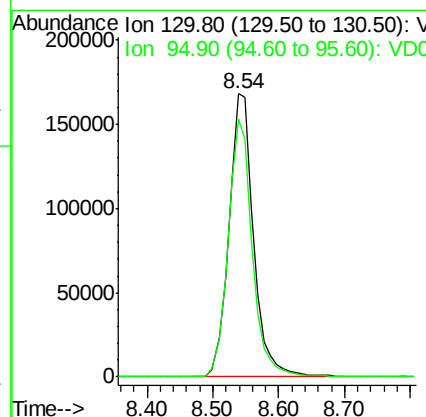
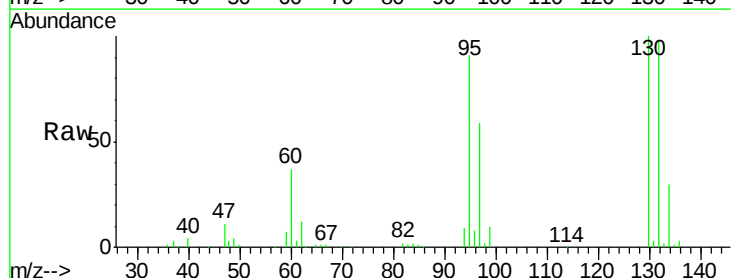
RT: 8.54 min Scan# 723

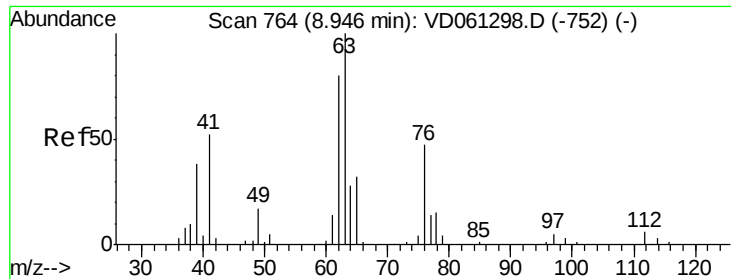
Delta R.T. -0.01 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion:	130	Resp:	441221
Ion	Ratio	Lower	Upper
130	100		
95	91.2	0.0	175.0





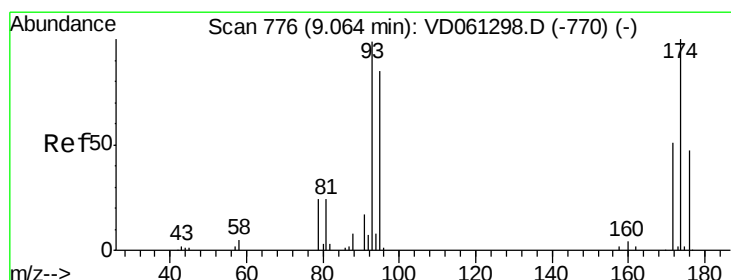
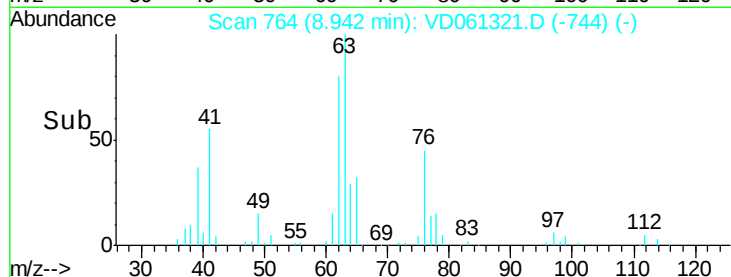
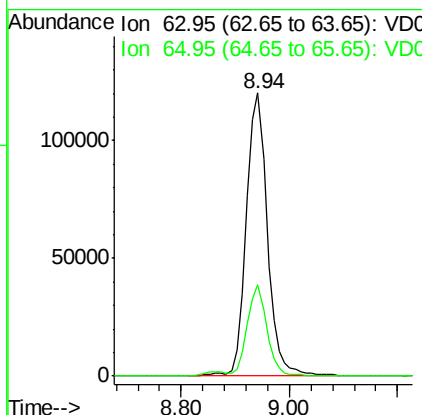
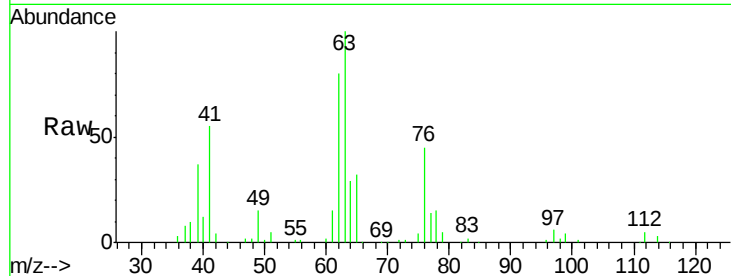
#45
 1,2-Dichloropropane
 Concen: 68.411 ug/l
 RT: 8.94 min Scan# 764
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion: 63 Resp: 325199
 Ion Ratio Lower Upper
 63 100
 65 32.2 25.2 37.8

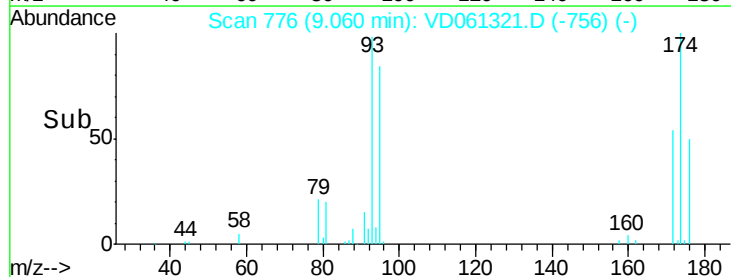
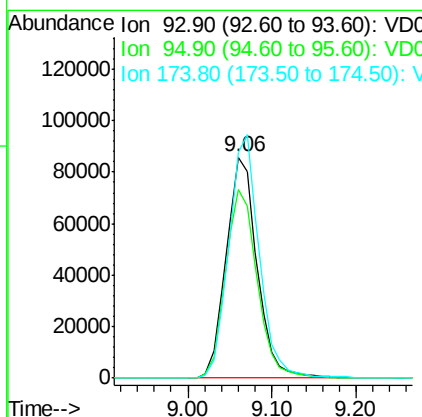
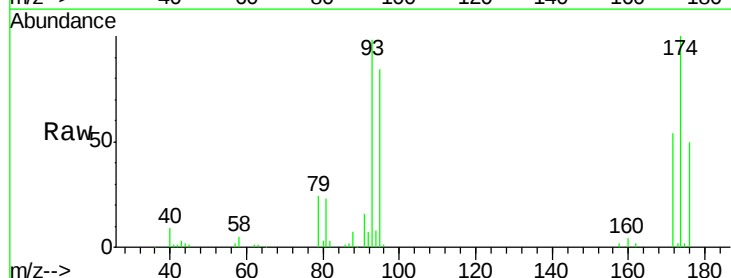
Manual Integrations
 APPROVED

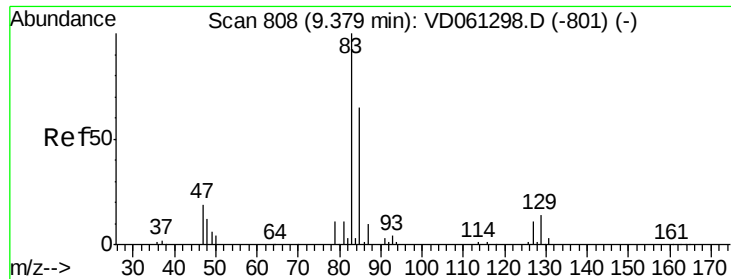
MMDadoda
 3/26/2019 11:59:51 AM



#46
 Dibromomethane
 Concen: 67.300 ug/l
 RT: 9.06 min Scan# 776
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 93 Resp: 219290
 Ion Ratio Lower Upper
 93 100
 95 85.6 68.1 102.1
 174 102.4 80.4 120.6





#47

Bromodichloromethane

Concen: 65.904 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

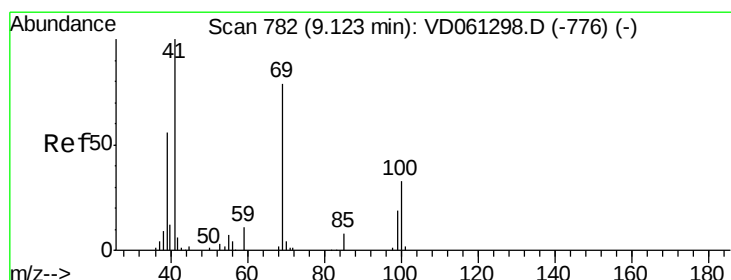
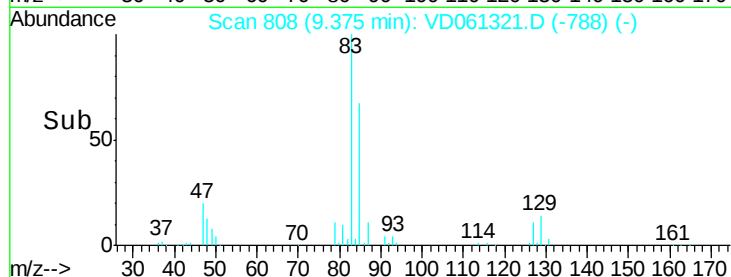
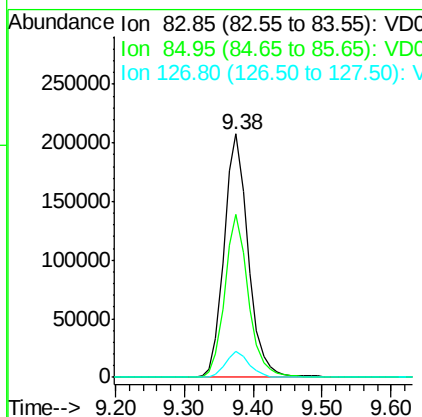
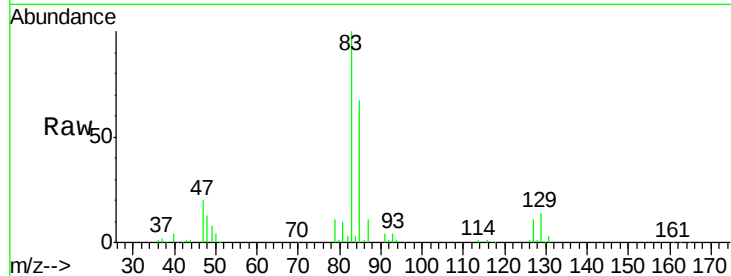
ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:	83	Resp:	503328
Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.7	77.5
127	10.9	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



#48

Methyl methacrylate

Concen: 71.392 ug/l

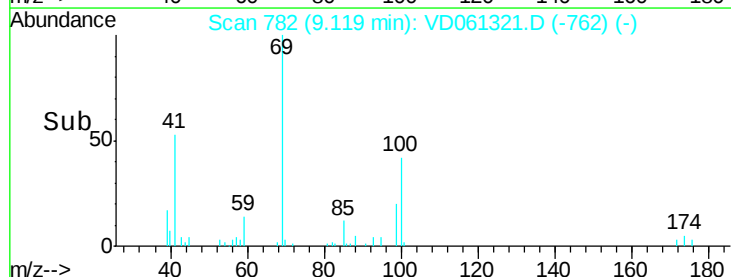
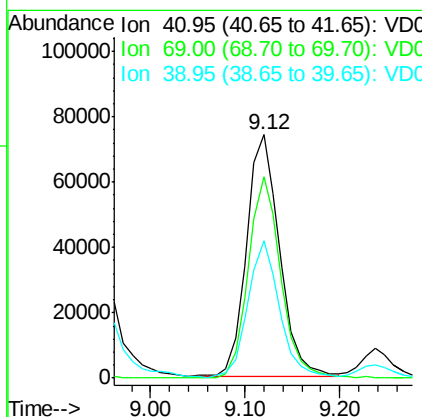
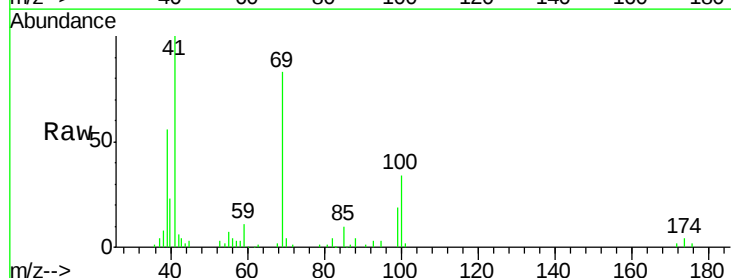
RT: 9.12 min Scan# 782

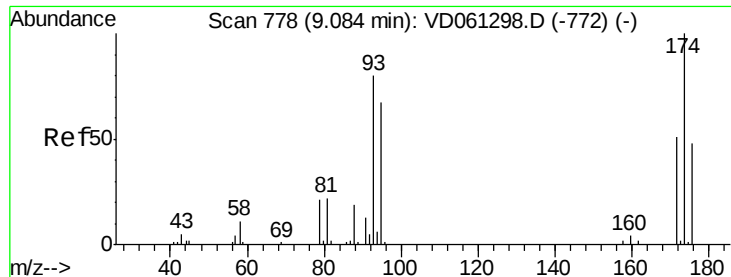
Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion:	41	Resp:	177969
Ion	Ratio	Lower	Upper
41	100		
69	82.7	62.4	93.6
39	56.2	44.9	67.3





#49

1,4-Dioxane

Concen: 1486.294 ug/l

RT: 9.08 min Scan# 778

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

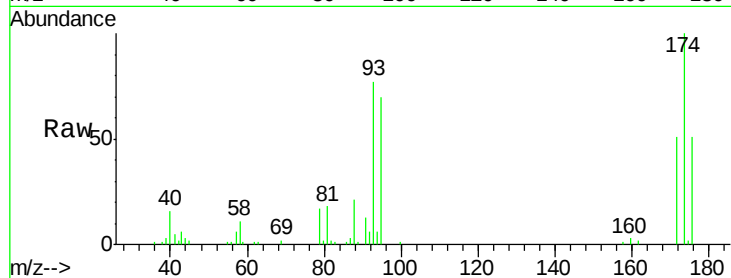
ClientSampleId :

WP022SB439-190318-(13-14)MSD

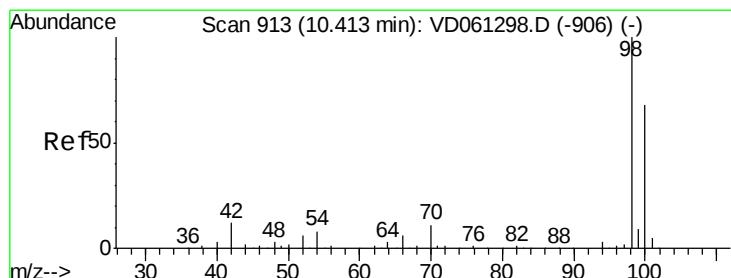
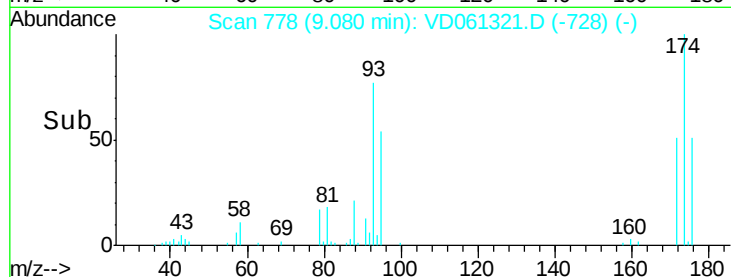
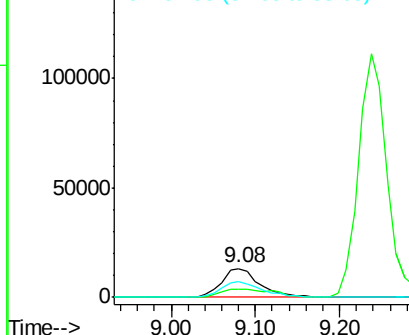
Tot Ion:	88	Resp:	40652
Ion Ratio	Lower	Upper	
88	100		
43	29.2	20.7	31.1
58	55.1	44.9	67.3

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 1486.294 ug/l

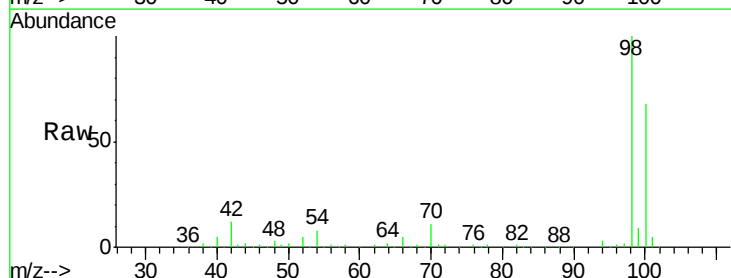
RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

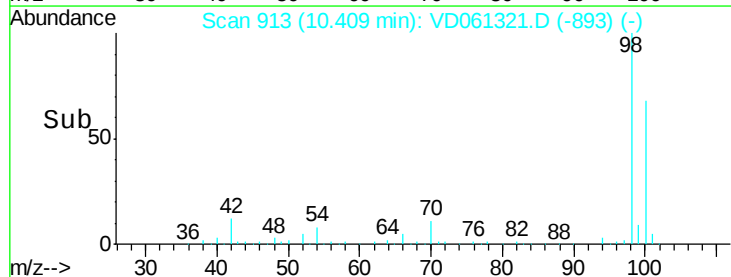
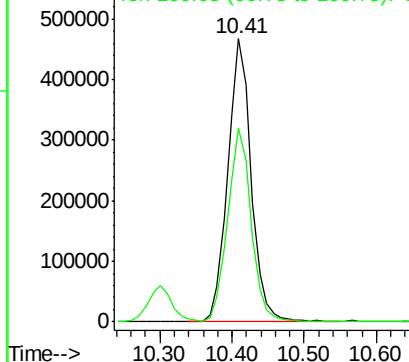
Lab File: VD061321.D

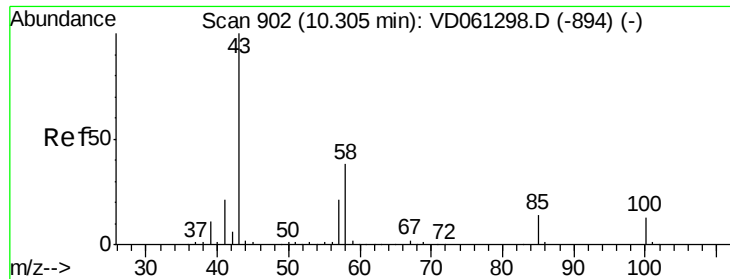
Acq: 26 Mar 2019 2:26

Tgt Ion:	98	Resp:	1055475
Ion Ratio	Lower	Upper	
98	100		
100	68.4	55.4	83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 366.739 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tot Ion: 43 Resp: 1019656

Ion Ratio Lower Upper

43 100

58 39.1 30.6 45.8

Instrument :

MSVOA_D

ClientSampleId :

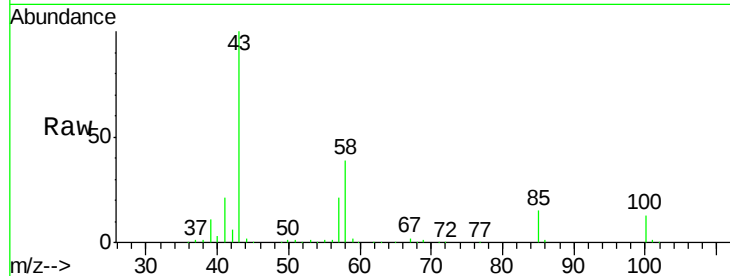
WP022SB439-190318-(13-14)MSD

Manual Integrations

APPROVED

MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.30

400000

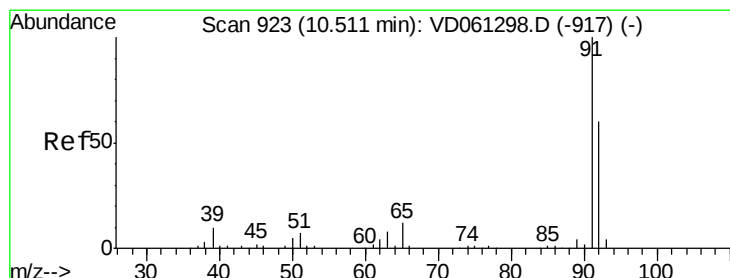
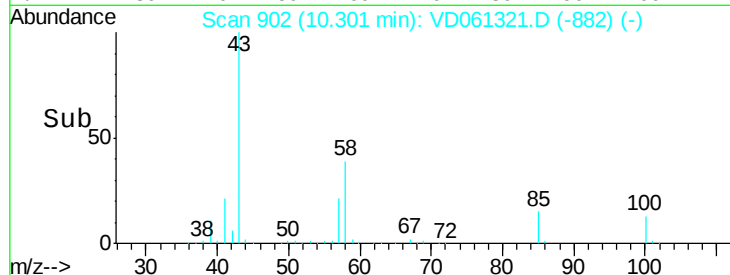
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 65.841 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD061321.D

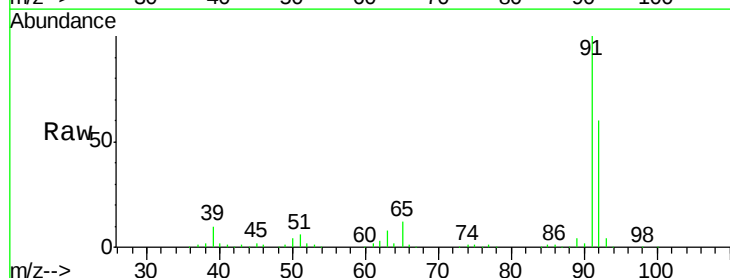
Acq: 26 Mar 2019 2:26

Tgt Ion: 92 Resp: 775929

Ion Ratio Lower Upper

92 100

91 166.2 133.1 199.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

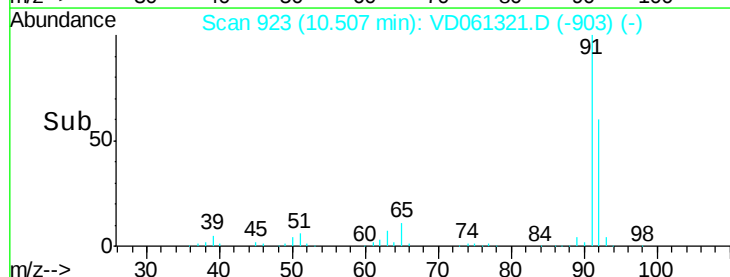
600000

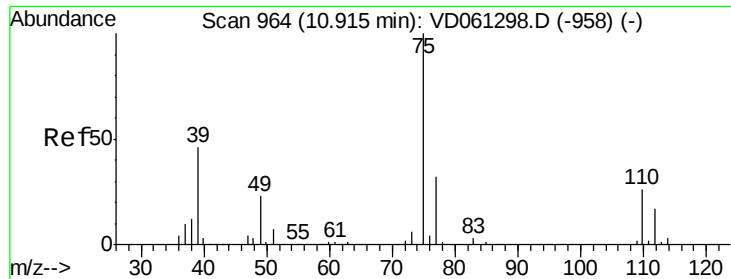
400000

200000

0

Time-->





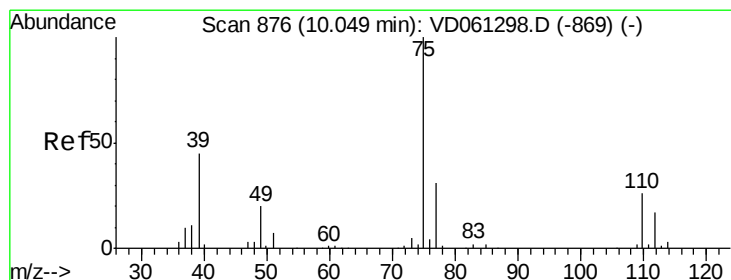
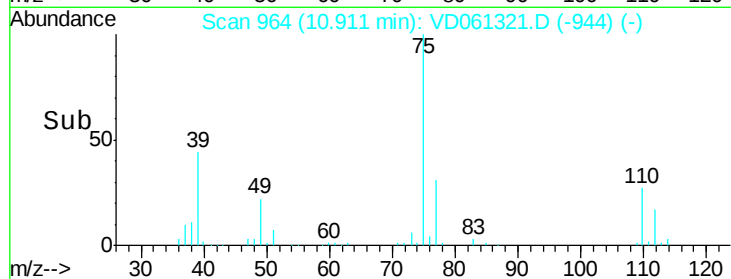
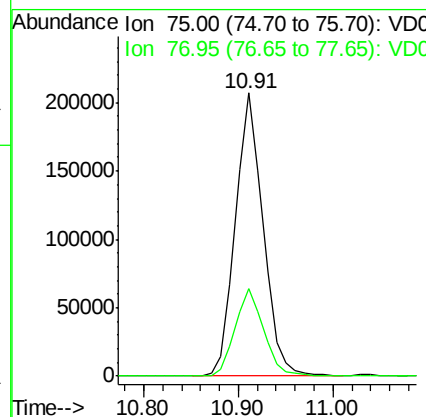
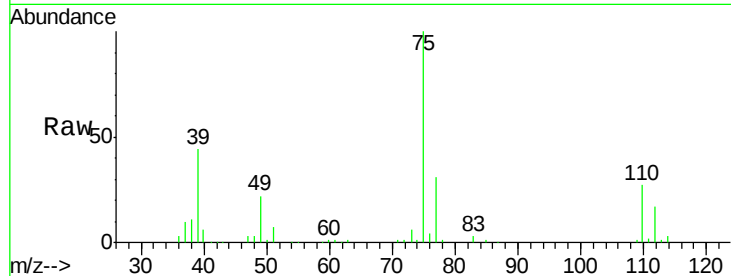
#53
 t-1,3-Dichloropropene
 Concen: 63.443 ug/l
 RT: 10.91 min Scan# 964
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion: 75 Resp: 421087
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.8 38.6

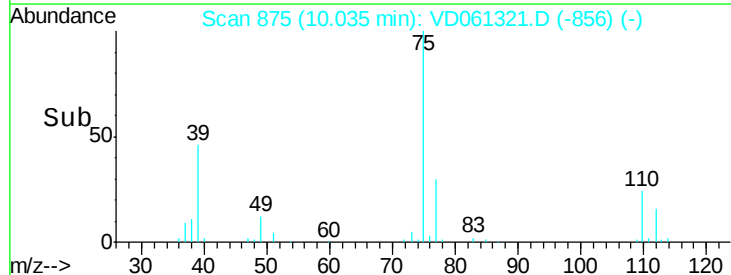
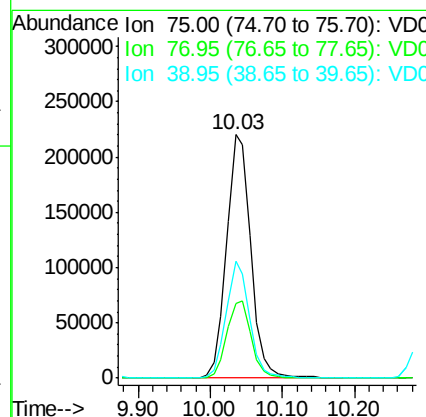
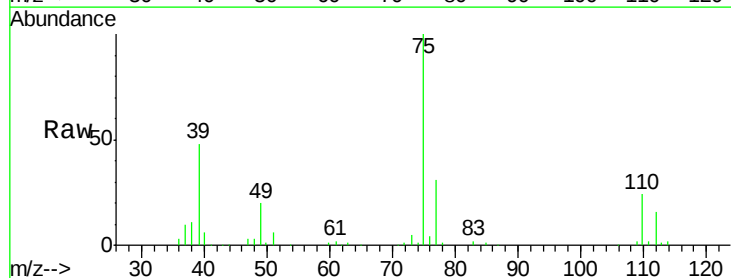
Manual Integrations
 APPROVED

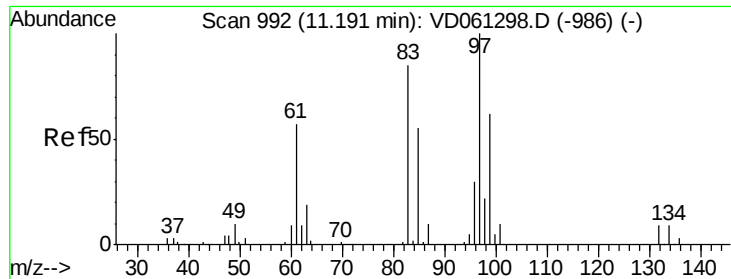
MMDadoda
 3/26/2019 11:59:51 AM



#54
 cis-1,3-Dichloropropene
 Concen: 63.225 ug/l
 RT: 10.03 min Scan# 875
 Delta R.T. -0.01 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 75 Resp: 512420
 Ion Ratio Lower Upper
 75 100
 77 30.5 24.9 37.3
 39 48.0 36.0 54.0





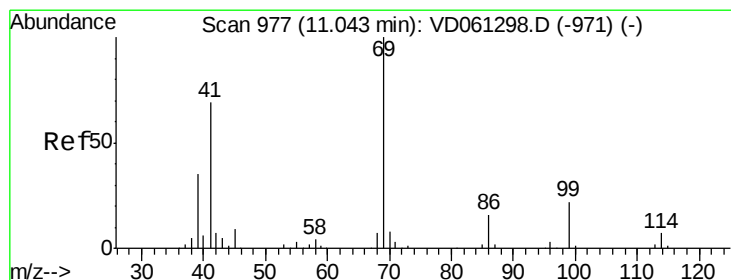
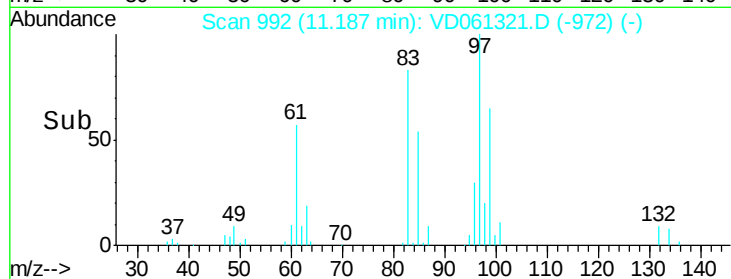
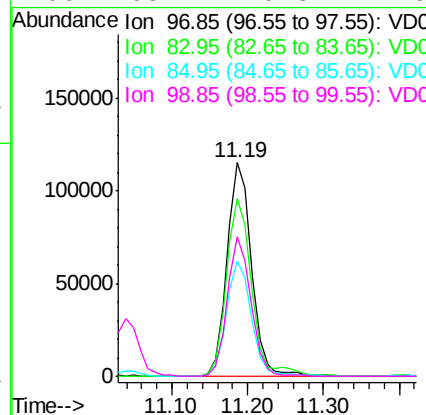
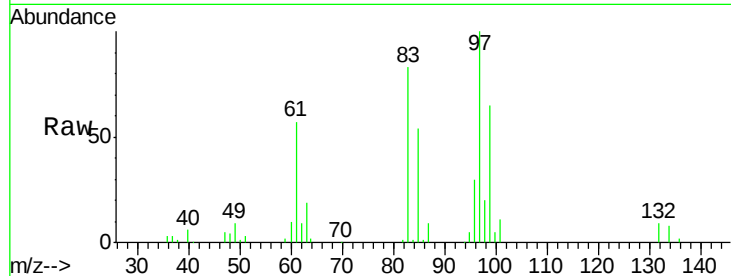
#55
1,1,2-Trichloroethane
Concen: 66.129 ug/l
RT: 11.19 min Scan# 992
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	97	Resp	258734
Ion	Ratio	Lower	Upper
97	100		
83	83.3	67.7	101.5
85	54.1	43.8	65.8
99	65.2	49.8	74.6

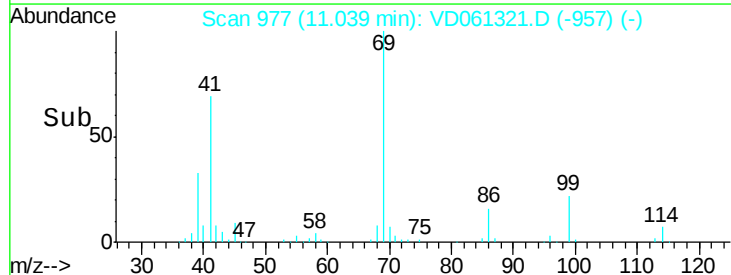
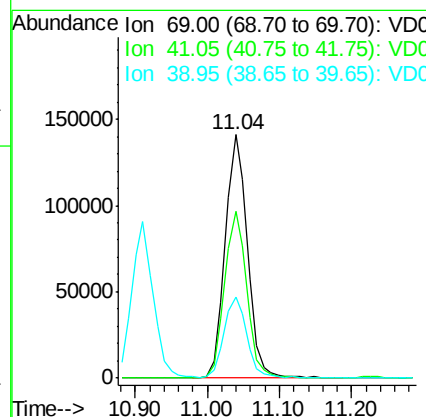
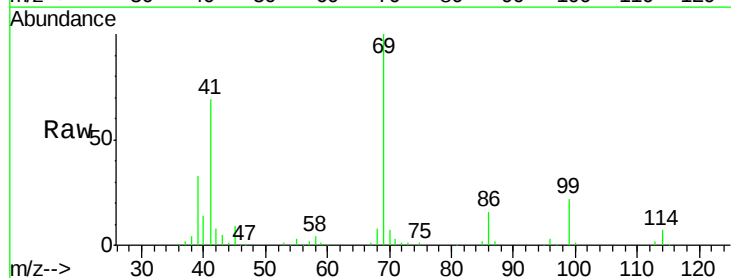
Manual Integrations
APPROVED

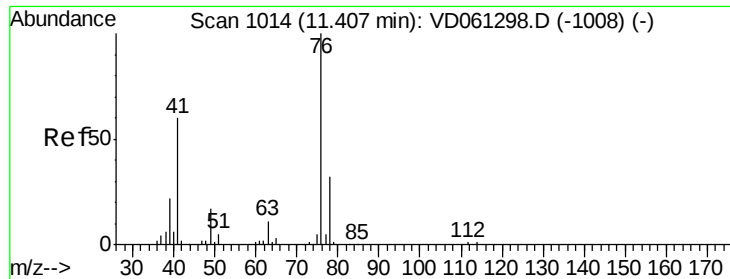
MMDadoda
3/26/2019 11:59:51 AM



#56
Ethyl methacrylate
Concen: 71.922 ug/l
RT: 11.04 min Scan# 977
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	69	Resp	300277
Ion	Ratio	Lower	Upper
69	100		
41	68.8	54.9	82.3
39	33.4	28.5	42.7





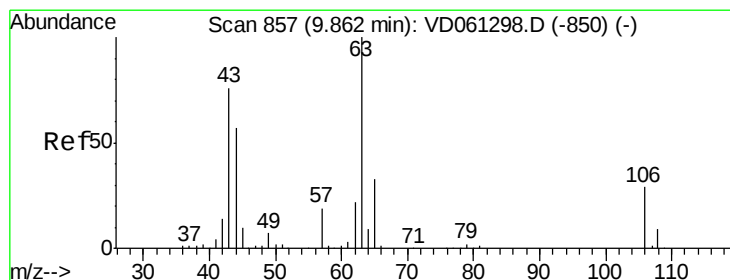
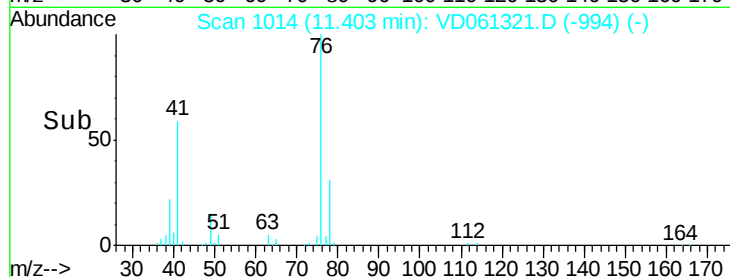
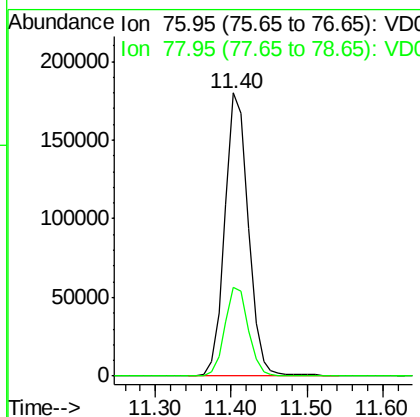
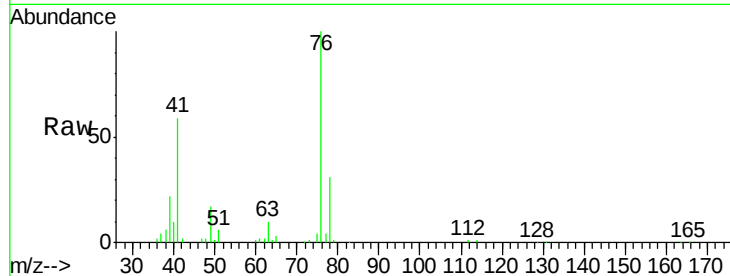
#57
 1,3-Dichloropropane
 Concen: 65.414 ug/l
 RT: 11.40 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion: 76 Resp: 386531
 Ion Ratio Lower Upper
 76 100
 78 31.2 25.7 38.5

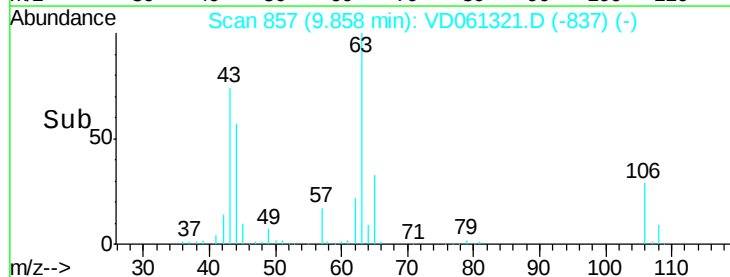
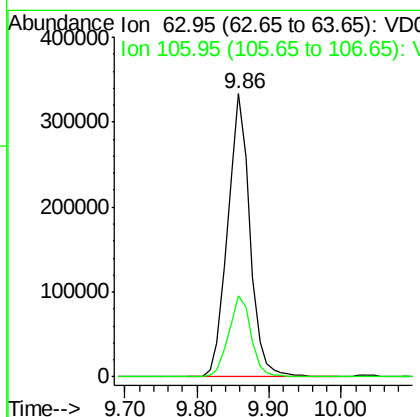
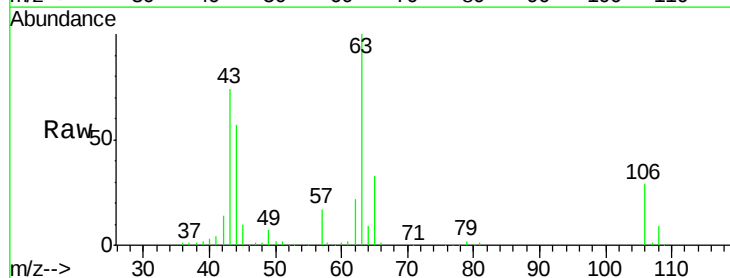
Manual Integrations
 APPROVED

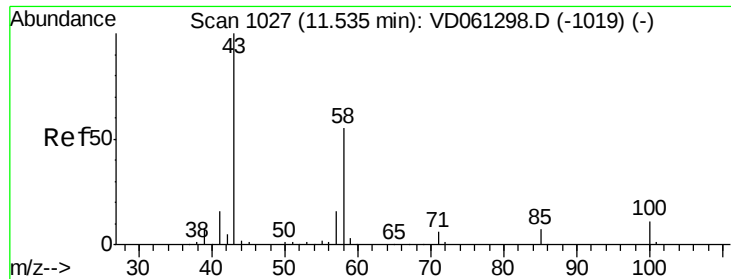
MMDadoda
 3/26/2019 11:59:51 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 329.797 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 63 Resp: 716325
 Ion Ratio Lower Upper
 63 100
 106 28.7 23.4 35.0





#59

2-Hexanone

Concen: 371.733 ug/l

RT: 11.53 min Scan# 1027

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 43 Resp: 750650

Ion Ratio Lower Upper

43 100

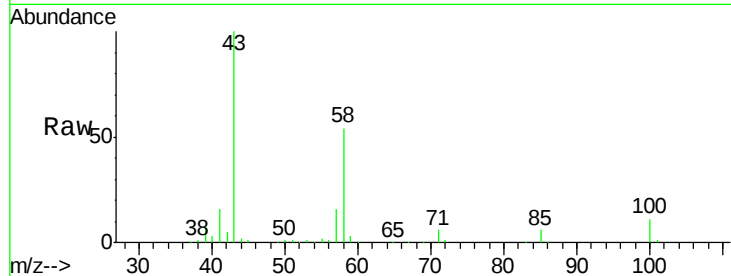
58 53.7 27.4 82.0

Manual Integrations

APPROVED

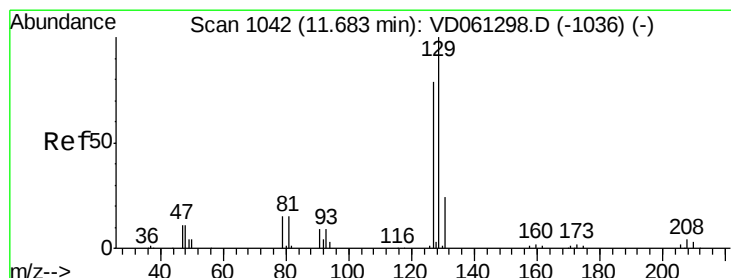
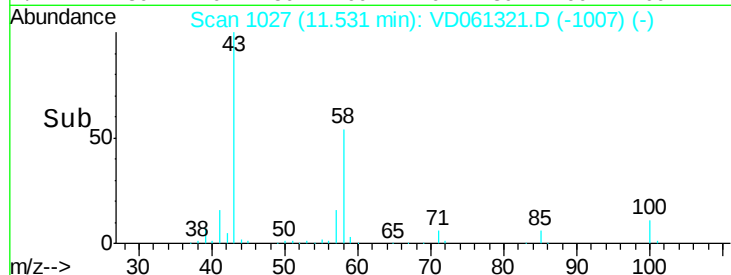
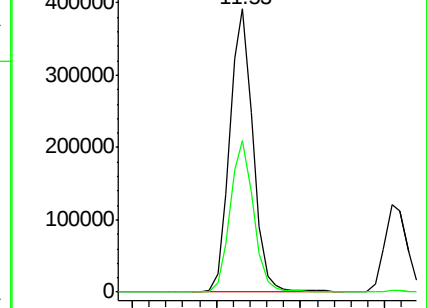
MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#60

Dibromochloromethane

Concen: 65.577 ug/l

RT: 11.68 min Scan# 1042

Delta R.T. -0.00 min

Lab File: VD061321.D

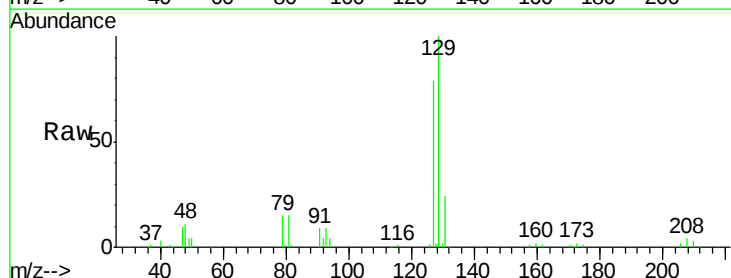
Acq: 26 Mar 2019 2:26

Tgt Ion: 129 Resp: 401858

Ion Ratio Lower Upper

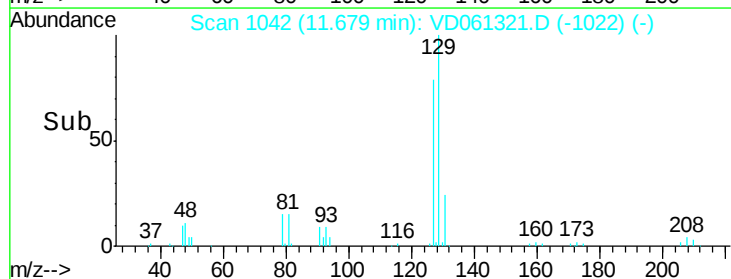
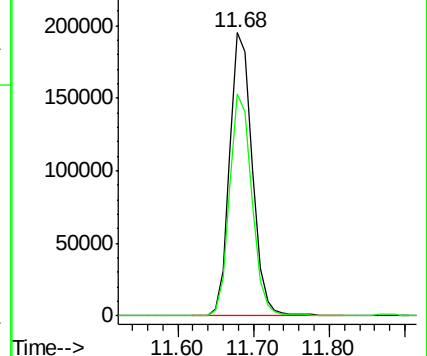
129 100

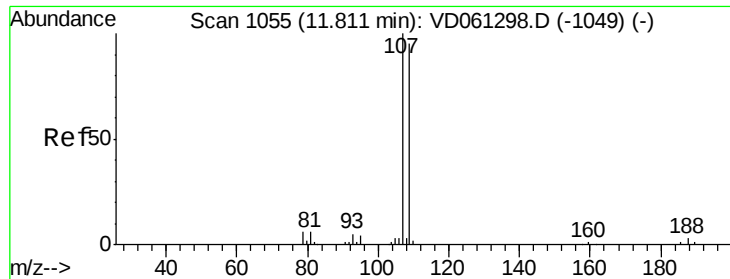
127 78.6 39.6 119.0



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





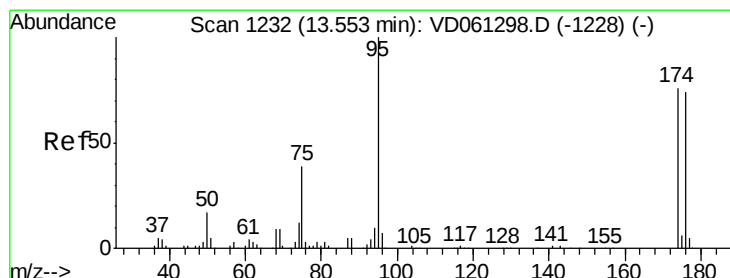
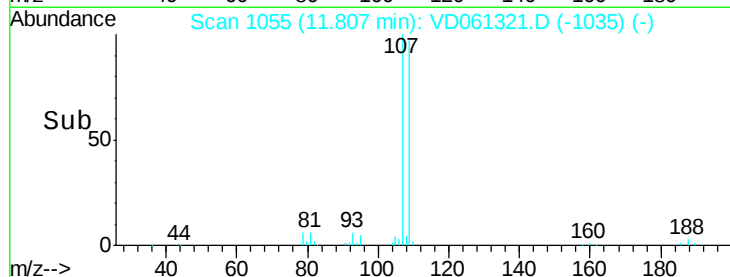
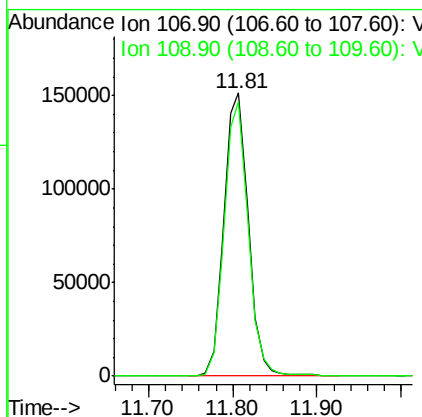
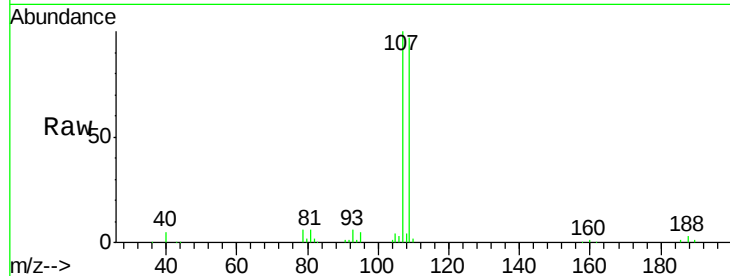
#61
 1,2-Dibromoethane
 Concen: 66.562 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion: 107 Resp: 304289
 Ion Ratio Lower Upper
 107 100
 109 97.0 76.1 114.1

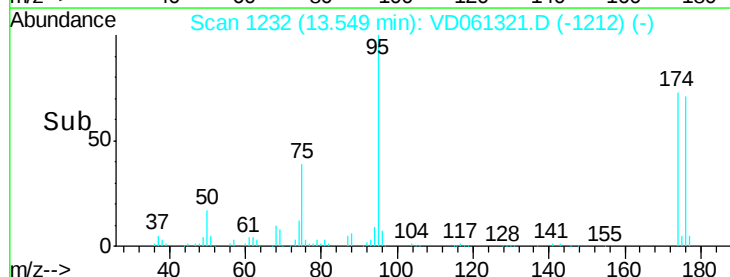
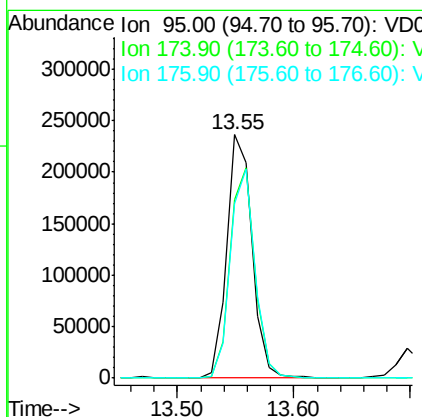
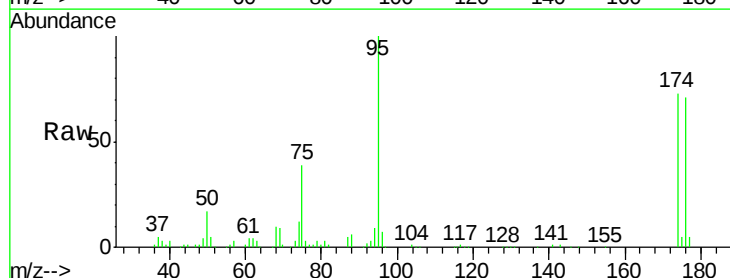
Manual Integrations
 APPROVED

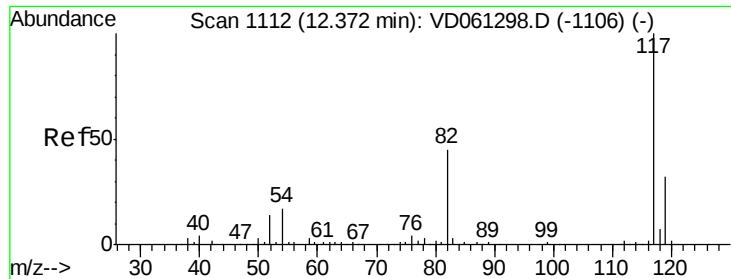
MMDadoda
 3/26/2019 11:59:51 AM



#62
 4-Bromofluorobenzene
 Concen: 66.562 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion: 95 Resp: 357389
 Ion Ratio Lower Upper
 95 100
 174 73.0 0.0 151.8
 176 71.4 0.0 148.0





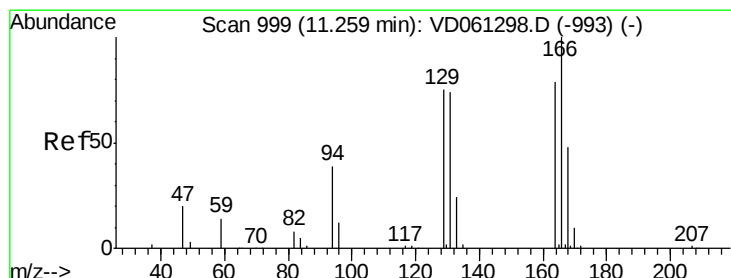
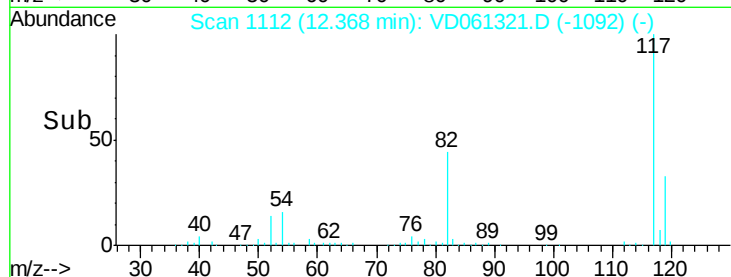
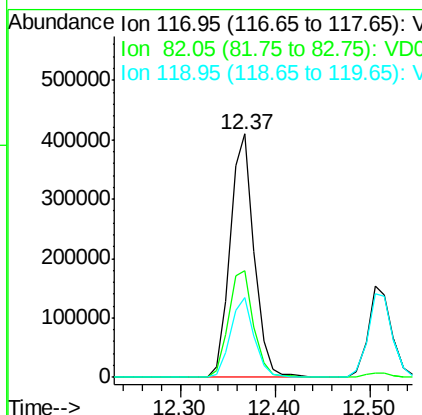
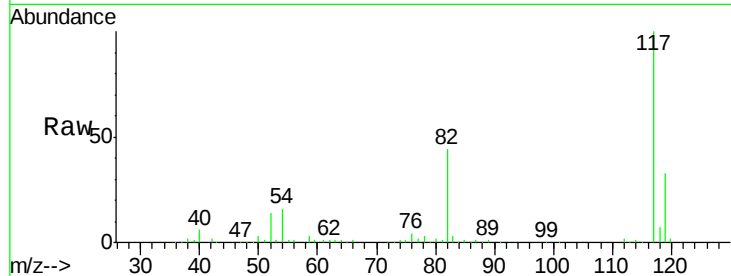
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
117	100	718861		
82	44.0	35.7	53.5	
119	32.6	25.9	38.9	

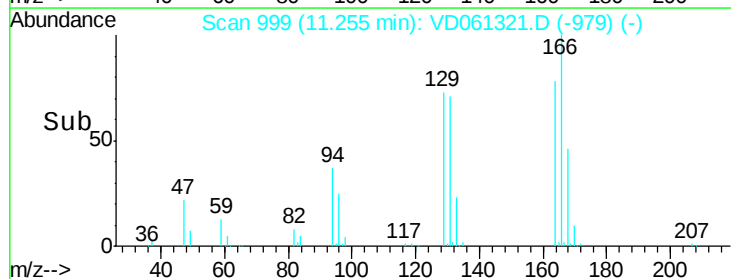
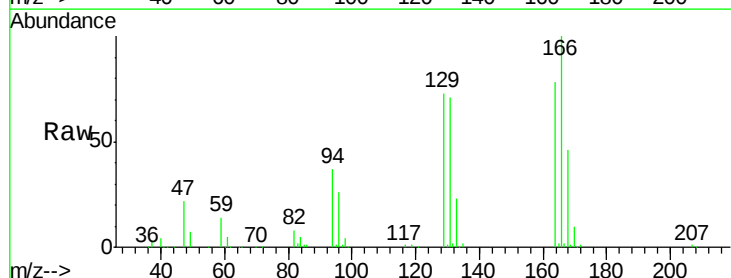
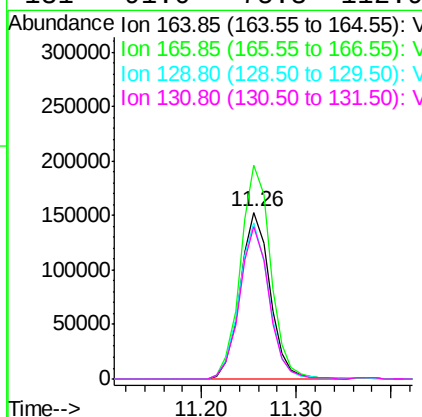
Manual Integrations
APPROVED

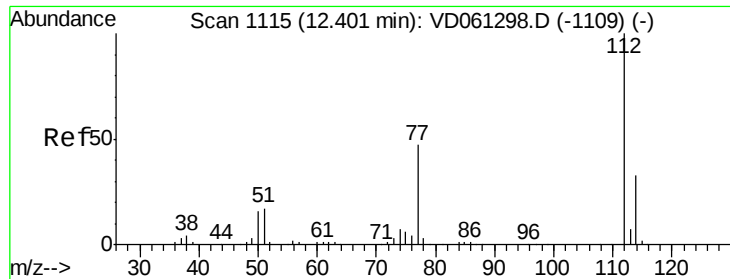
MMDadoda
3/26/2019 11:59:51 AM



#64
Tetrachloroethene
Concen: 67.692 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	335212		
166	128.1	101.6	152.4	
129	93.6	75.9	113.9	
131	91.0	75.3	112.9	





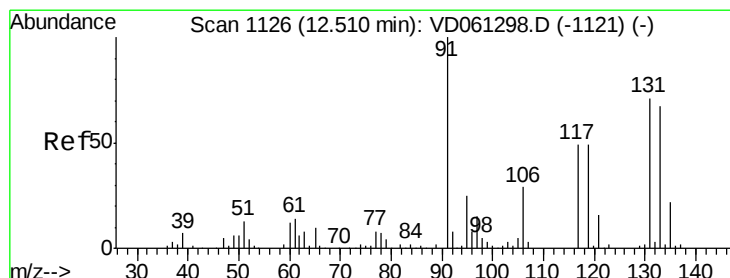
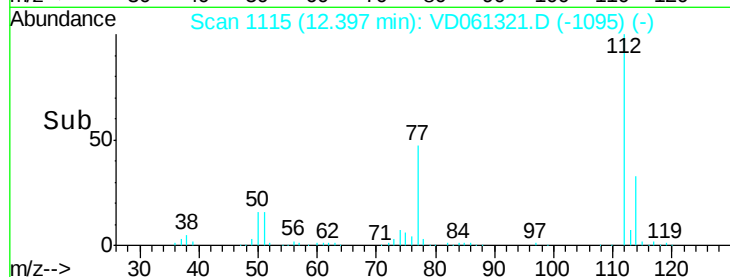
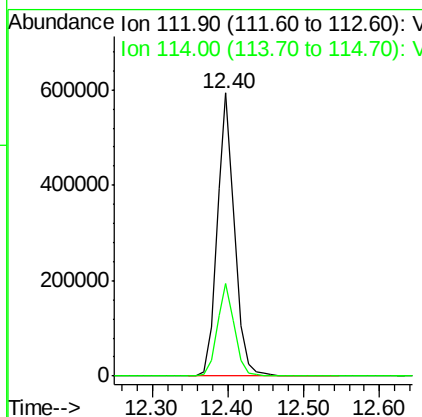
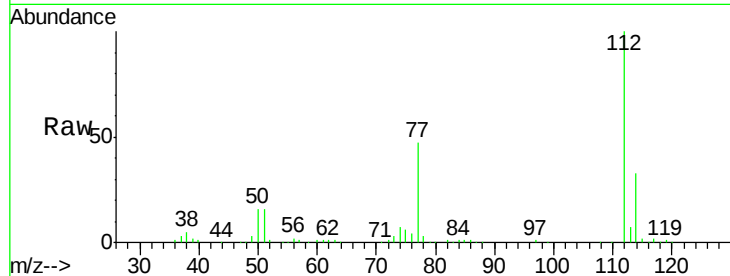
#65
Chlorobenzene
Concen: 71.576 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion:112 Resp: 947722
Ion Ratio Lower Upper
112 100
114 32.6 26.5 39.7

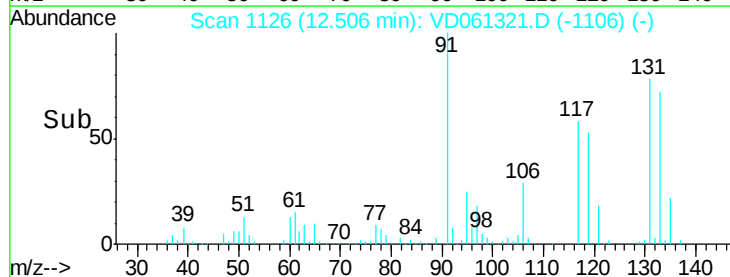
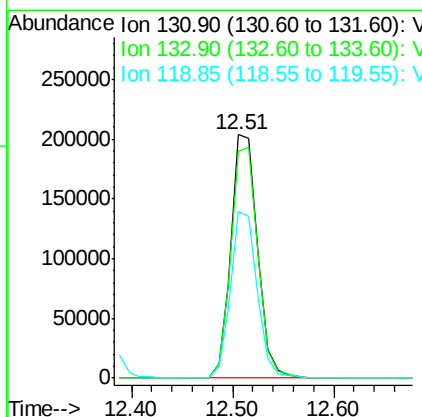
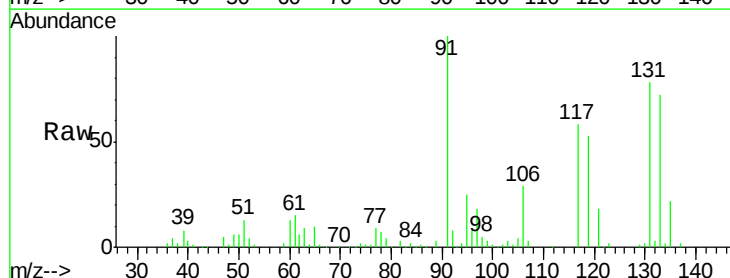
Manual Integrations
APPROVED

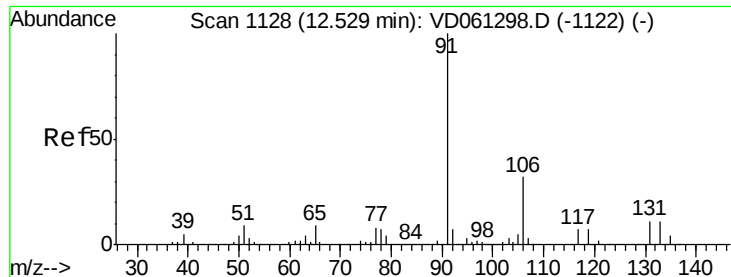
MMDadoda
3/26/2019 11:59:51 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 72.218 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:131 Resp: 370733
Ion Ratio Lower Upper
131 100
133 93.2 47.0 141.2
119 68.7 34.8 104.5





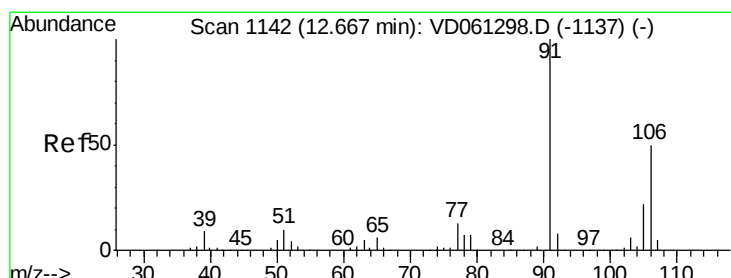
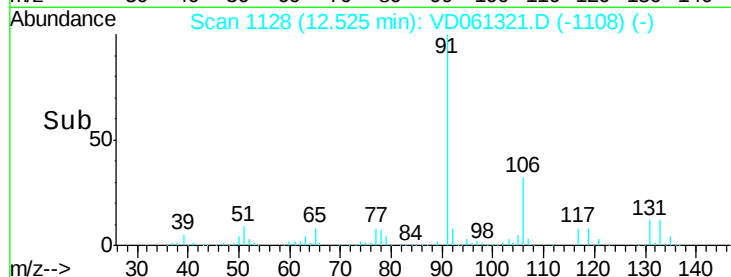
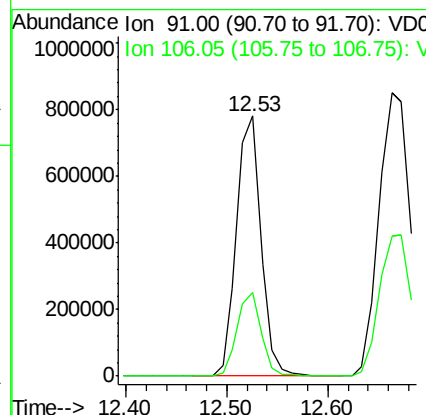
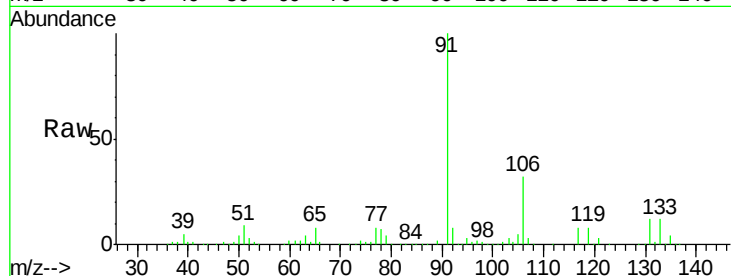
#67
Ethyl Benzene
Concen: 65.136 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion: 91 Resp: 1319889
Ion Ratio Lower Upper
91 100
106 32.4 25.8 38.8

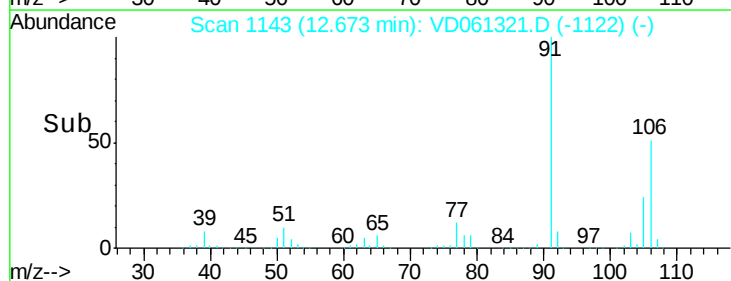
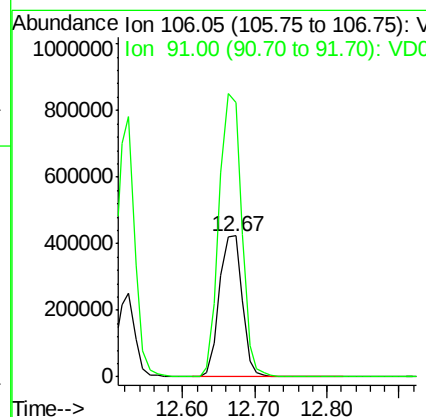
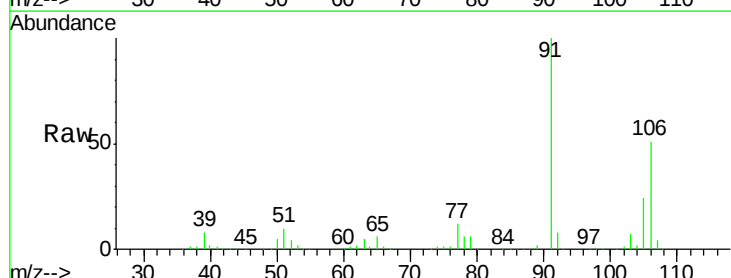
Manual Integrations
APPROVED

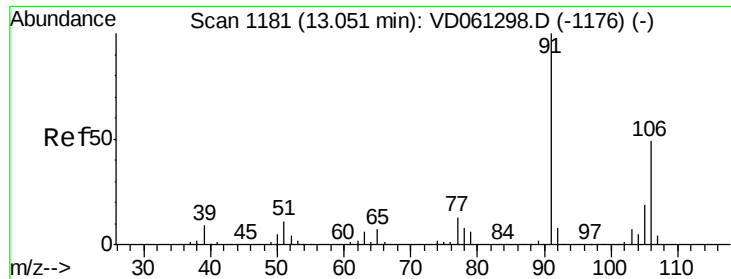
MMDadoda
3/26/2019 11:59:51 AM



#68
m/p-Xylenes
Concen: 116.965 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion: 106 Resp: 925191
Ion Ratio Lower Upper
106 100
91 195.1 159.2 238.8





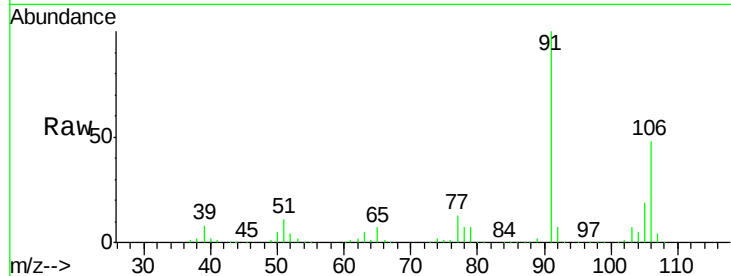
#69
o-Xylene
Concen: 65.989 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

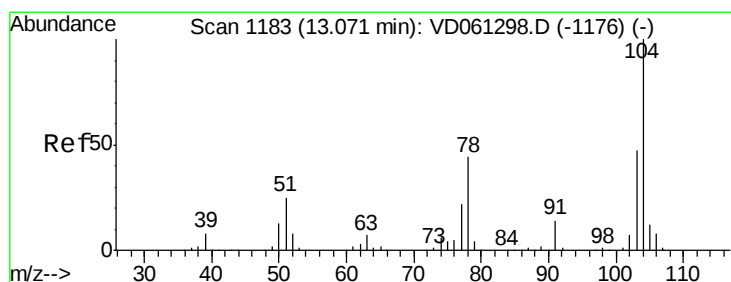
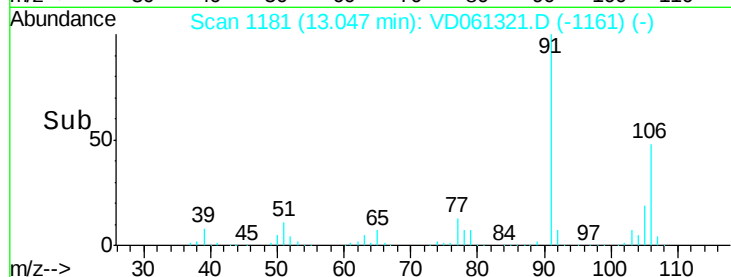
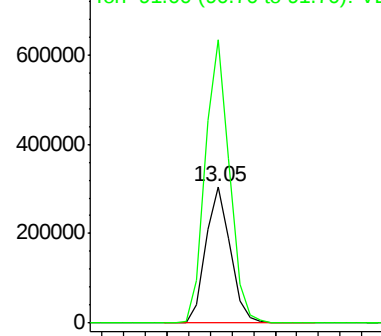
Tot Ion:106 Resp: 484106
Ion Ratio Lower Upper
106 100
91 207.5 102.5 307.5

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM

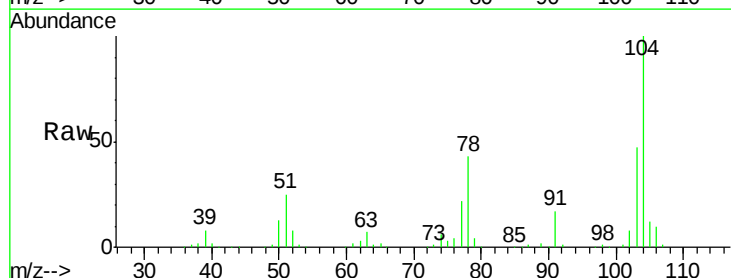


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

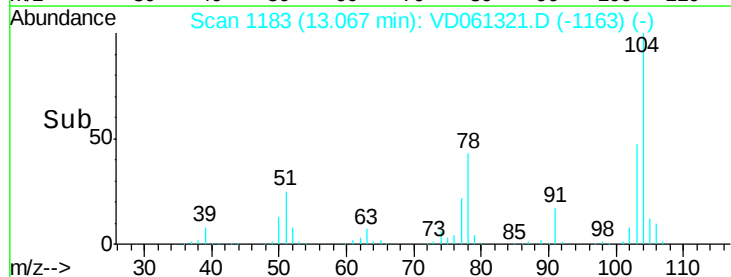
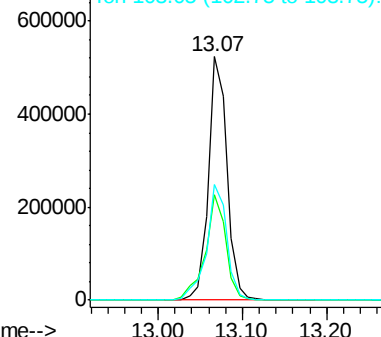


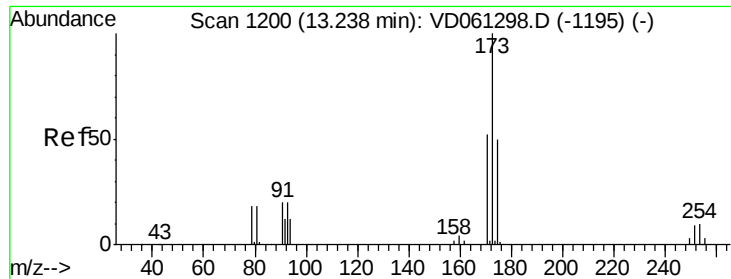
#70
Styrene
Concen: 64.428 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion:104 Resp: 802157
Ion Ratio Lower Upper
104 100
78 43.3 35.1 52.7
103 47.5 37.5 56.3



Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): VDC
Ion 103.05 (102.75 to 103.75): V





#71

Bromoform

Concen: 76.851 ug/l

RT: 13.23 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:173 Resp: 241420

Ion Ratio Lower Upper

173 100

175 48.3 24.9 74.7

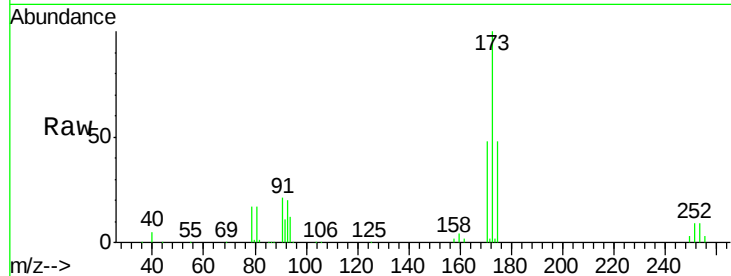
254 9.0 7.8 11.6

Manual Integrations

APPROVED

MMDadoda

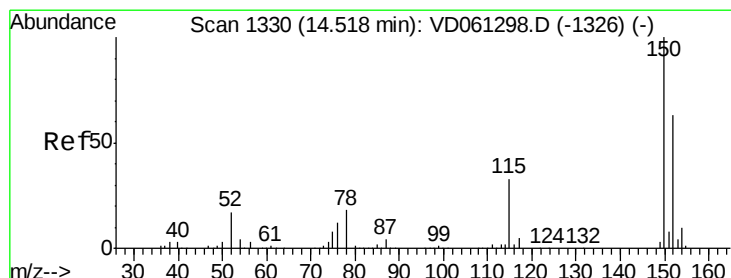
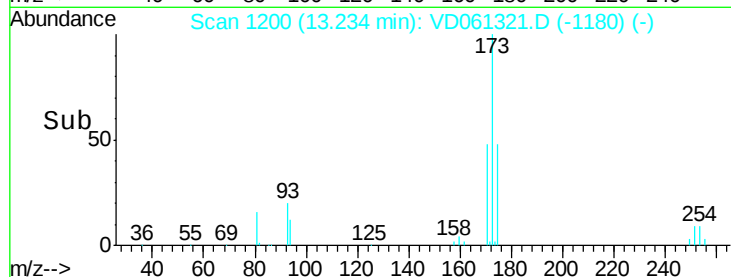
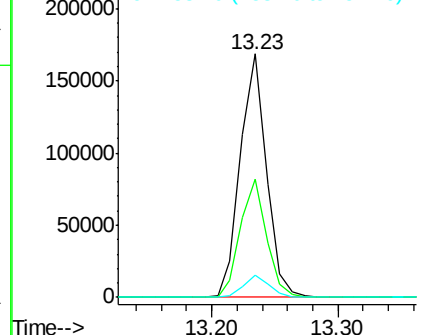
3/26/2019 11:59:51 AM



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

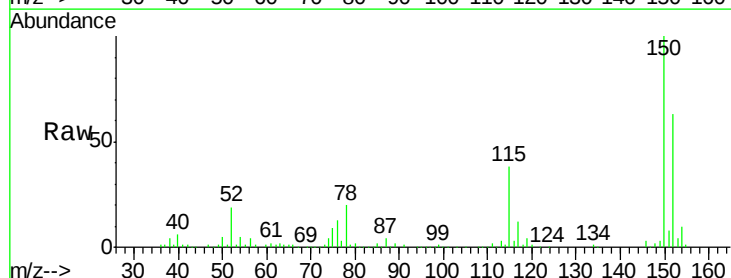
Tgt Ion:152 Resp: 299637

Ion Ratio Lower Upper

152 100

115 59.3 29.2 87.6

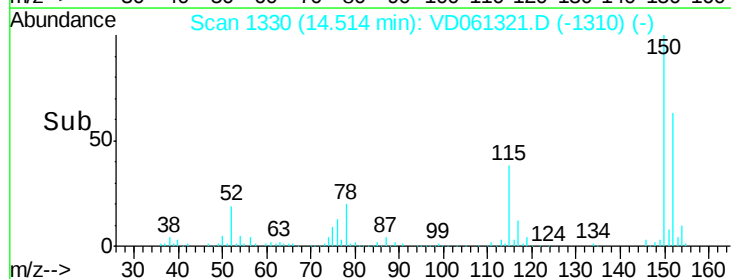
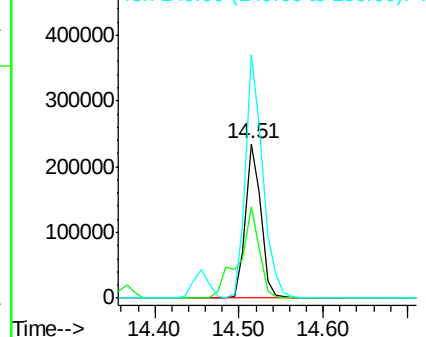
150 157.7 0.0 319.6

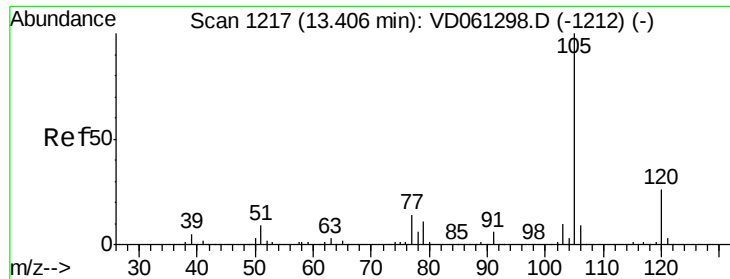


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 62.580 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:105 Resp: 1219634

Ion Ratio Lower Upper

105 100

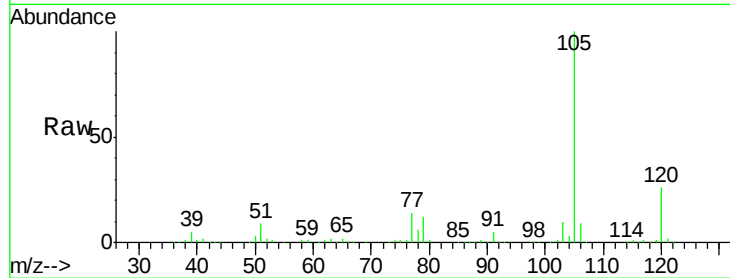
120 25.6 13.1 39.1

Manual Integrations

APPROVED

MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

1000000

800000

600000

400000

200000

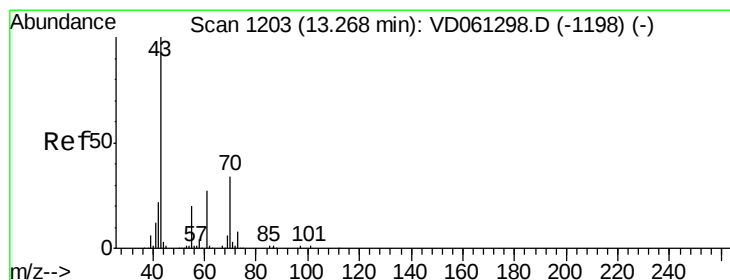
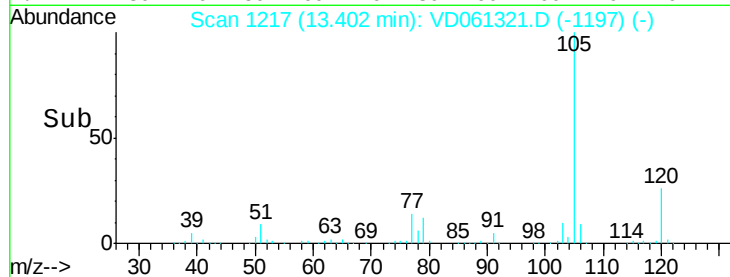
0

13.30

13.40

13.50

Time-->



#74

N-ethyl acetate

Concen: 45.795 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Tgt Ion: 43 Resp: 233501

Ion Ratio Lower Upper

43 100

70 35.1 27.5 41.3

55 19.5 15.7 23.5

61 28.4 21.8 32.6

Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

250000

200000

150000

100000

50000

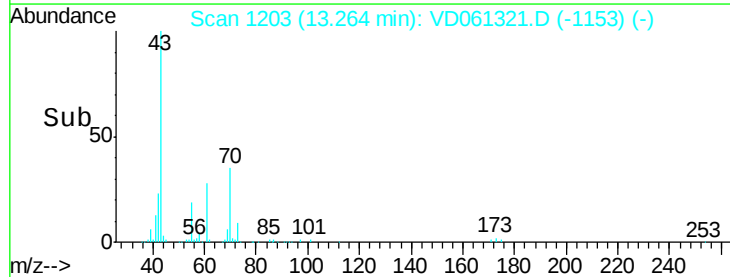
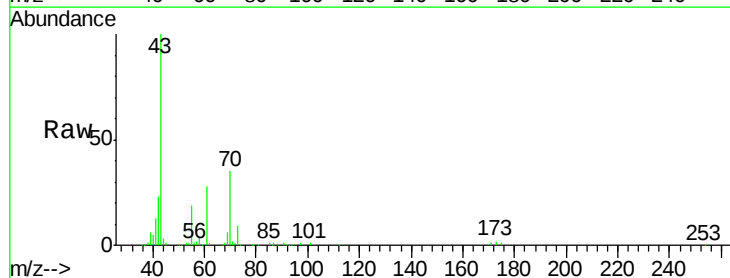
0

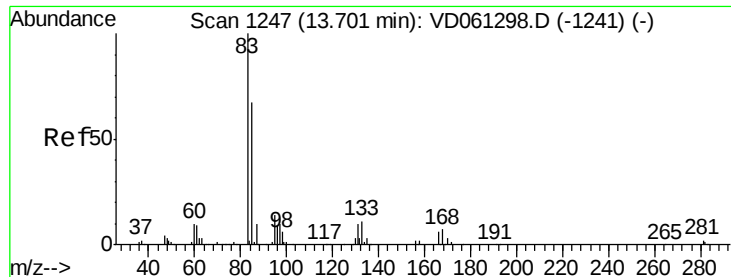
13.20

13.30

13.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 74.733 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 83 Resp: 282442

Ion Ratio Lower Upper

83 100

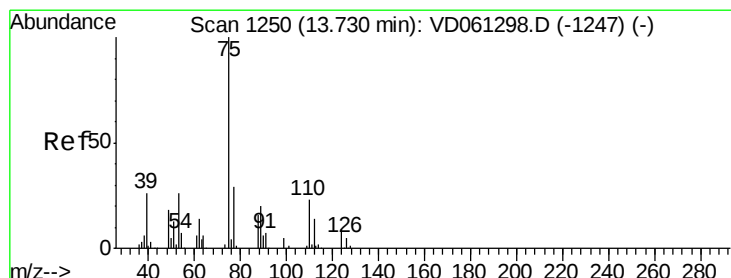
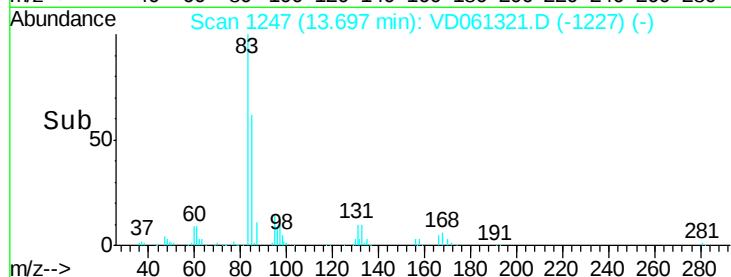
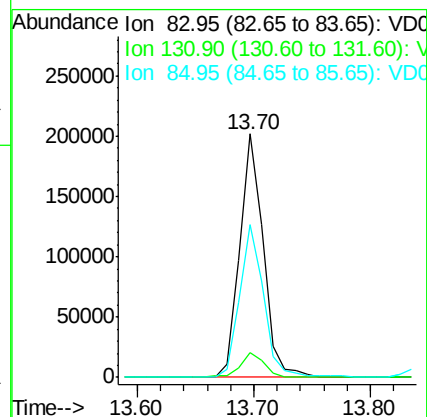
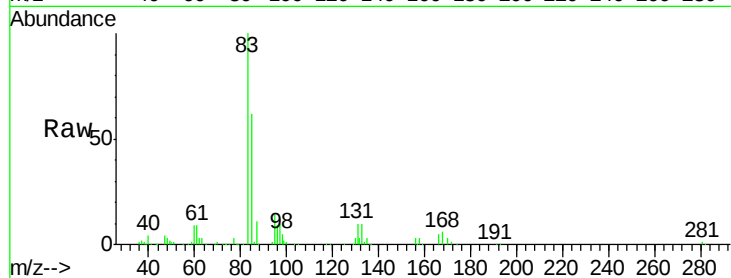
131 9.9 5.0 15.0

85 62.5 33.4 100.2

Manual Integrations
APPROVED

MMDadoda

3/26/2019 11:59:51 AM



#76

1,2,3-Trichloropropane

Concen: 77.815 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD061321.D

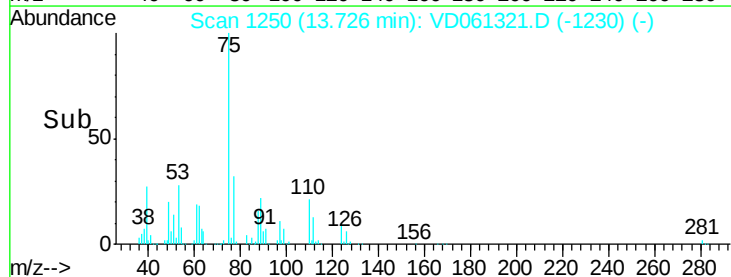
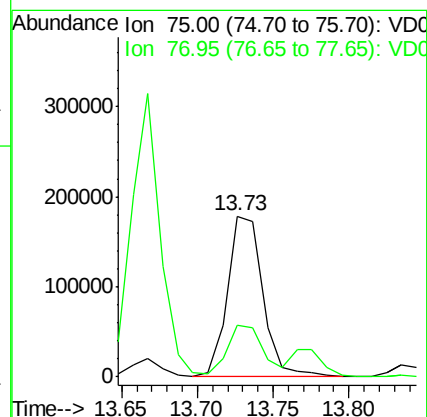
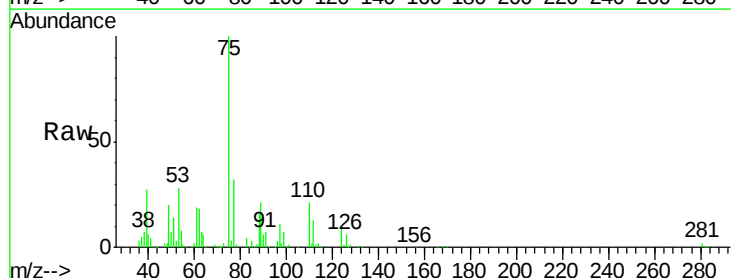
Acq: 26 Mar 2019 2:26

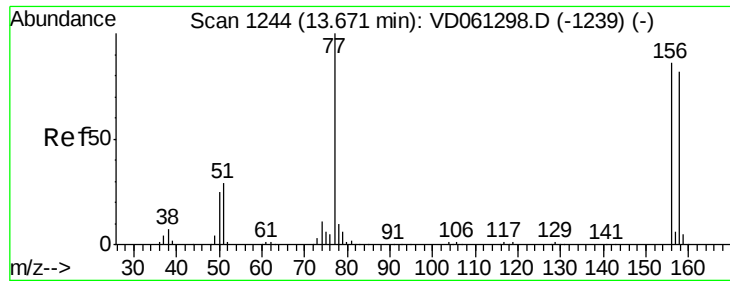
Tgt Ion: 75 Resp: 289965

Ion Ratio Lower Upper

75 100

77 32.0 15.8 47.4





#77

Bromobenzene

Concen: 63.709 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

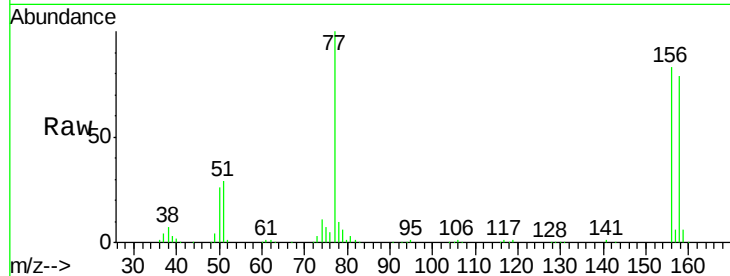
ClientSampleId :

WP022SB439-190318-(13-14)MSD

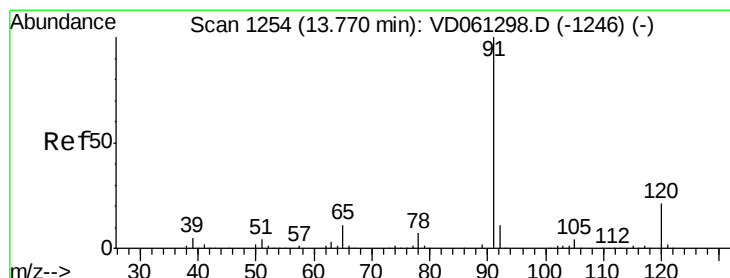
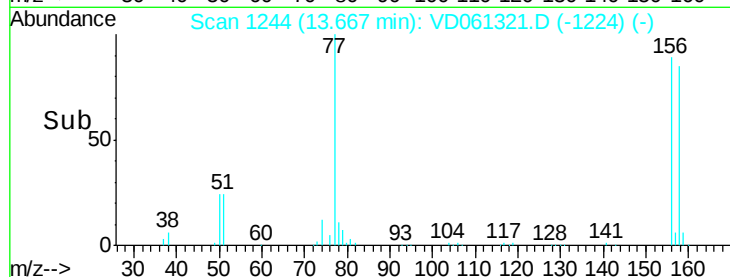
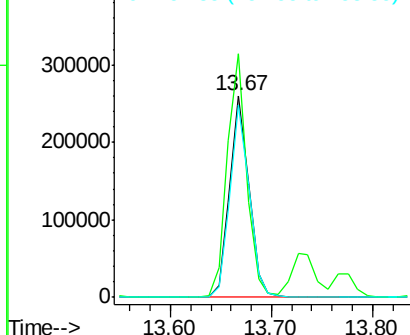
Tot Ion:	156	Resp:	346824
Ion Ratio	Lower	Upper	
156	100		
77	120.7	58.4	175.1
158	95.4	48.1	144.3

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 59.356 ug/l

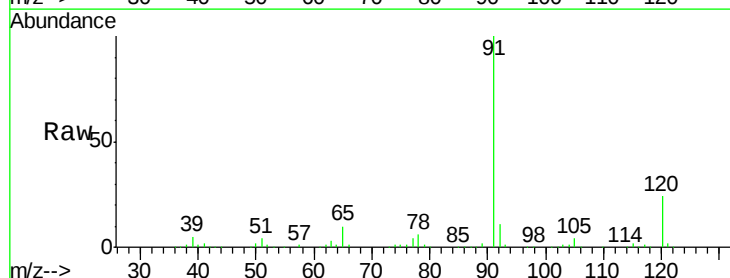
RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

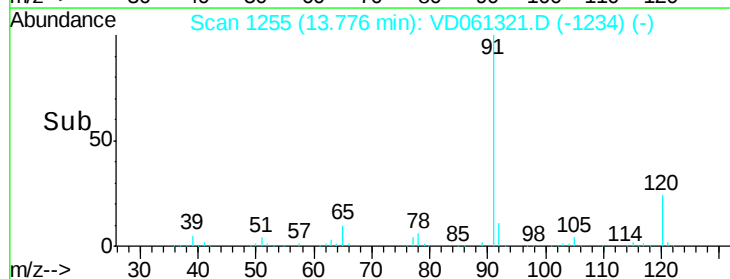
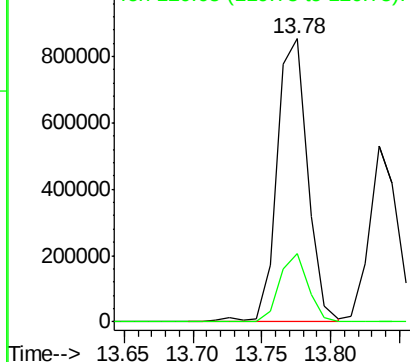
Lab File: VD061321.D

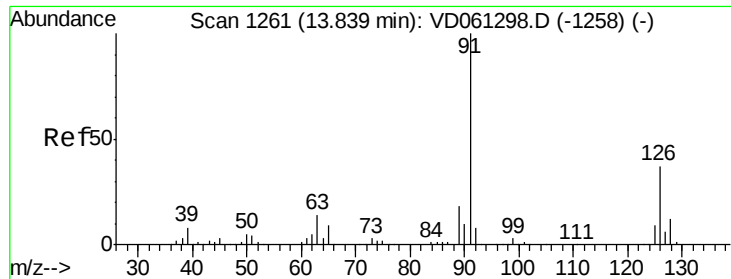
Acq: 26 Mar 2019 2:26

Tgt Ion:	91	Resp:	1305100
Ion Ratio	Lower	Upper	
91	100		
120	24.1	10.7	32.1



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 59.184 ug/l

RT: 13.83 min Scan# 1261

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion: 91 Resp: 757678

Ion Ratio Lower Upper

91 100

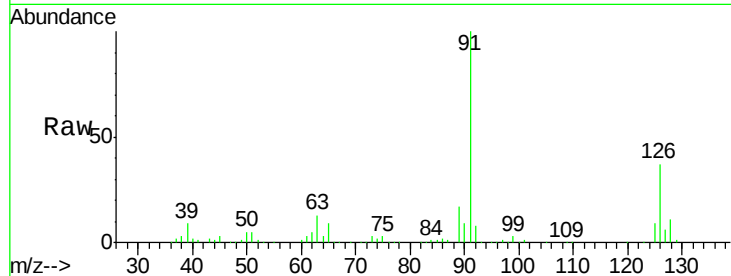
126 36.6 18.4 55.4

Manual Integrations

APPROVED

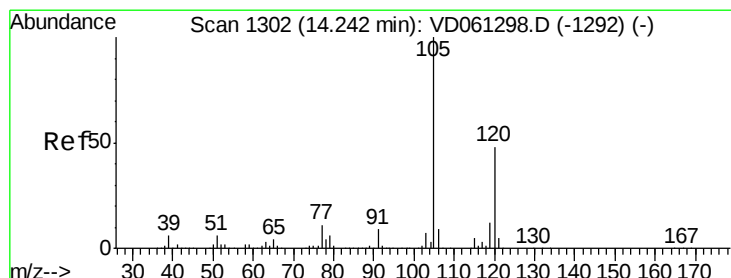
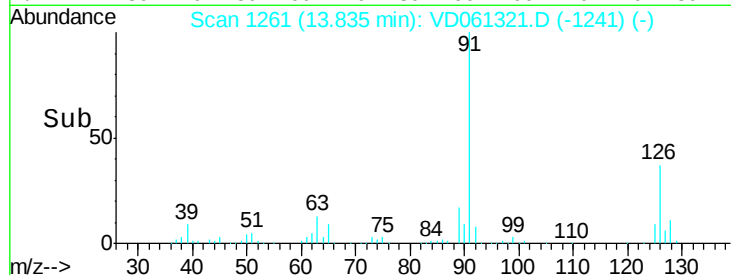
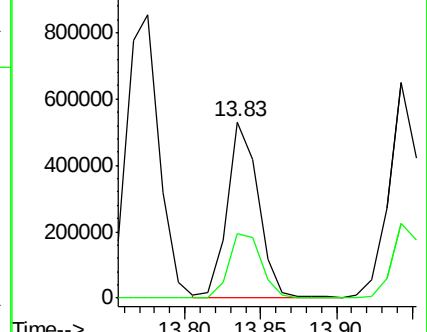
MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 91.00 (90.70 to 91.70): VD061298.D (-1258) (-)

Ion 125.95 (125.65 to 126.65): VD061298.D (-1258) (-)



#80

1,3,5-Trimethylbenzene

Concen: 63.433 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.00 min

Lab File: VD061321.D

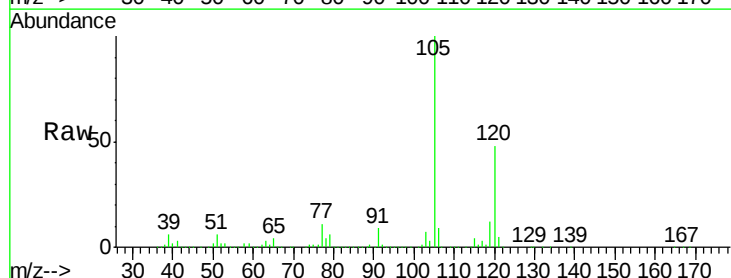
Acq: 26 Mar 2019 2:26

Tgt Ion: 105 Resp: 975249

Ion Ratio Lower Upper

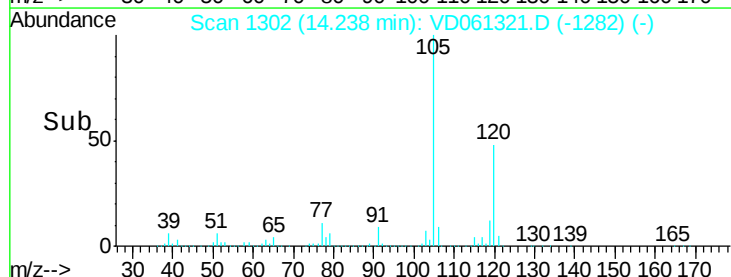
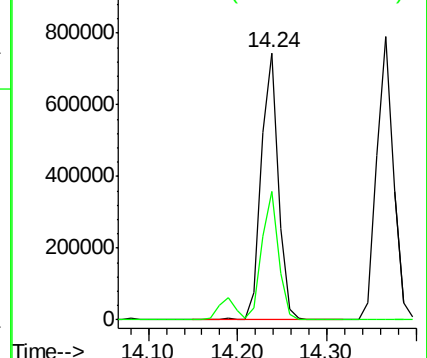
105 100

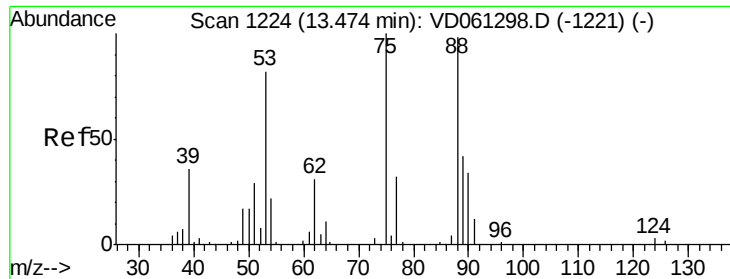
120 48.1 23.8 71.4



Abundance Ion 105.05 (104.75 to 105.75): VD061298.D (-1292) (-)

Ion 120.05 (119.75 to 120.75): VD061298.D (-1292) (-)





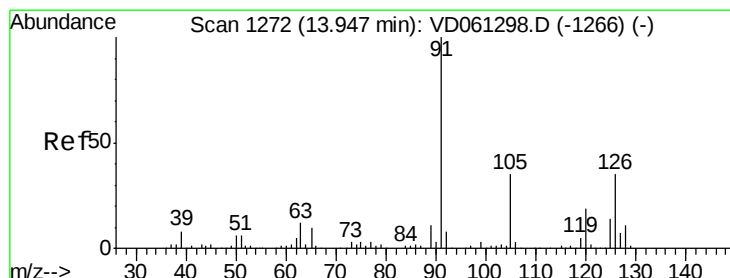
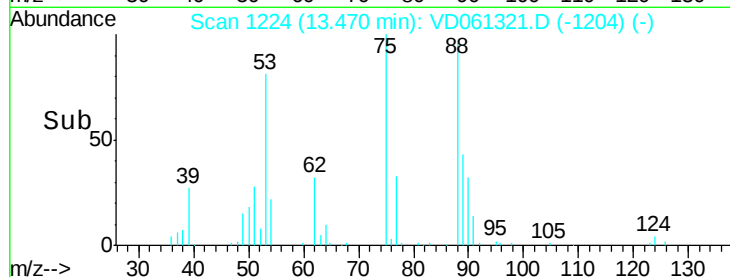
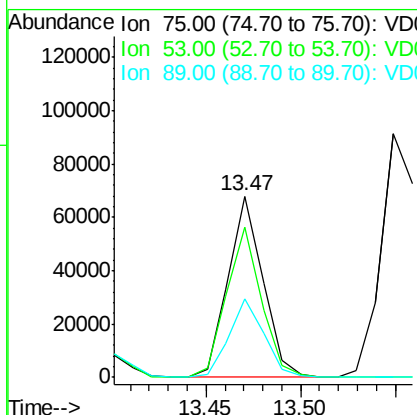
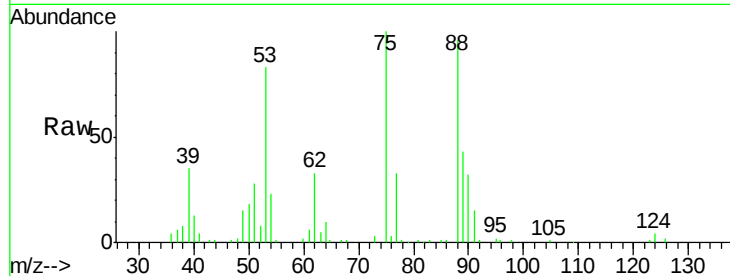
#81
trans-1,4-Dichloro-2-butene
Concen: 73.702 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
75	100		
53	82.9	65.3	97.9
89	43.2	33.8	50.6

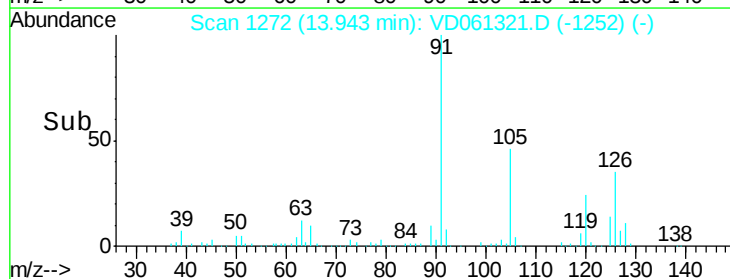
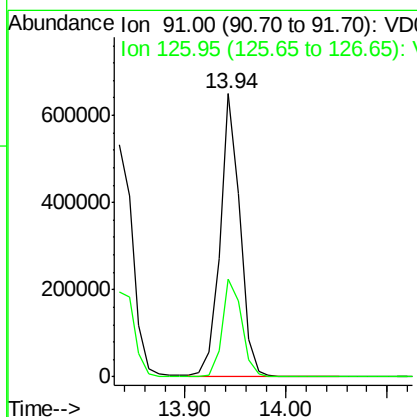
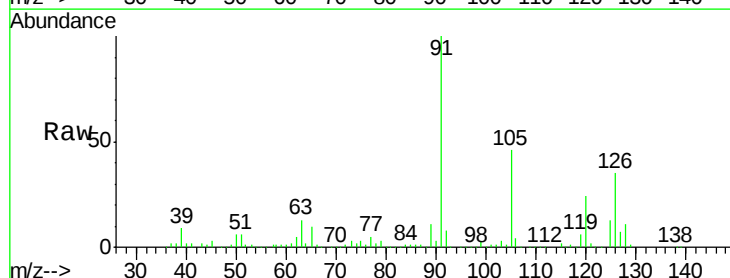
Manual Integrations
APPROVED

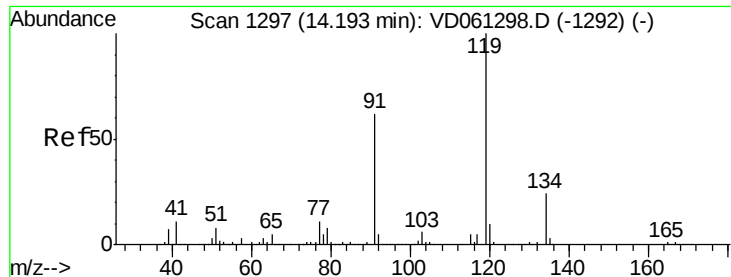
MMDadoda
3/26/2019 11:59:51 AM



#82
4-Chlorotoluene
Concen: 63.623 ug/l
RT: 13.94 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.6	17.7	53.1





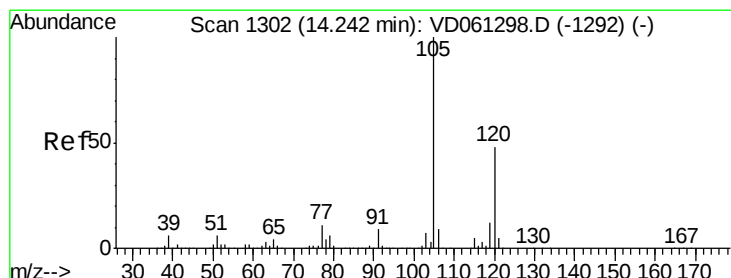
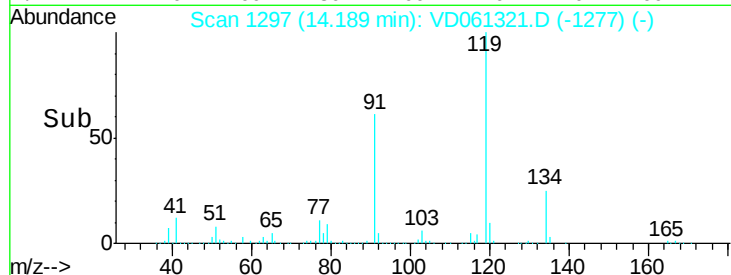
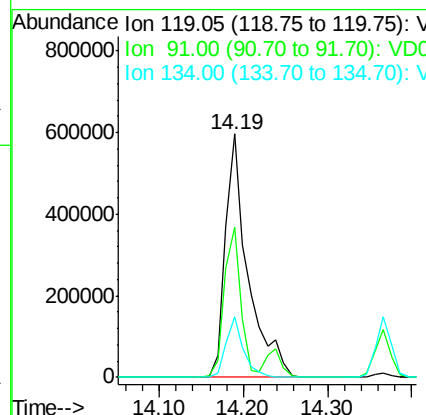
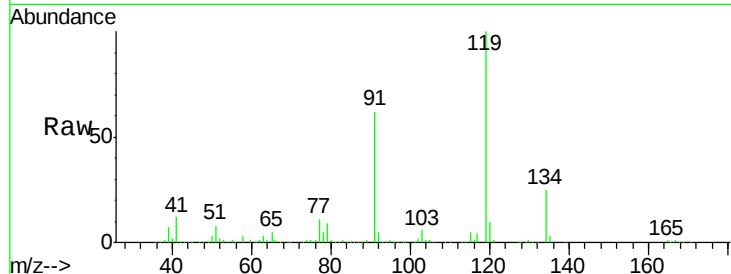
#83
tert-Butylbenzene
Concen: 63.485 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
119	100		
91	61.8	31.1	93.5
134	24.7	11.9	35.7

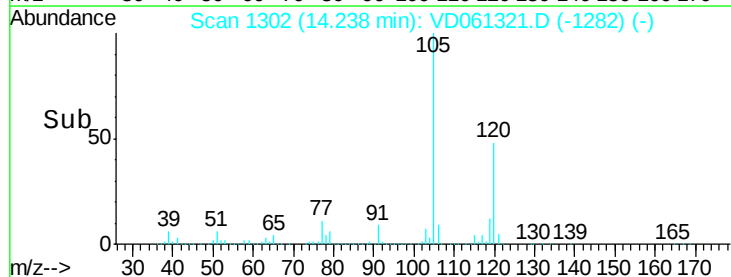
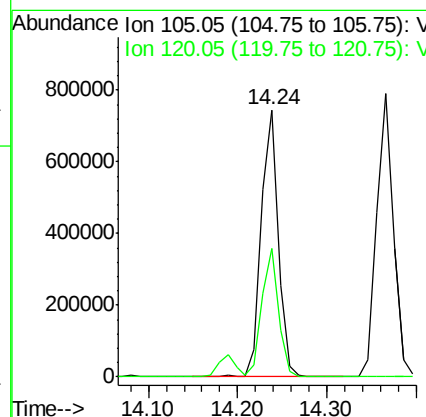
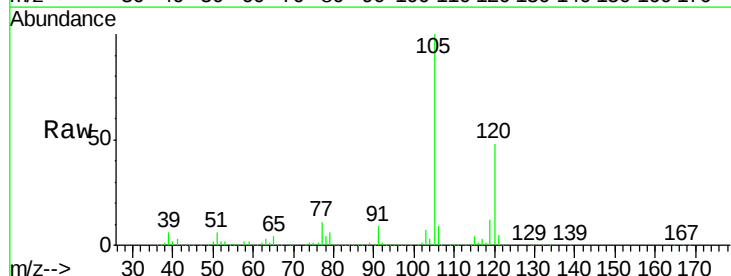
Manual Integrations
APPROVED

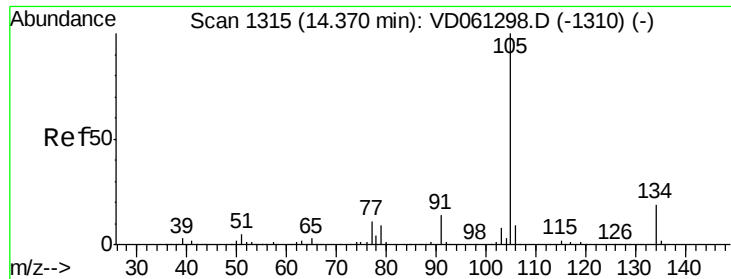
MMDadoda
3/26/2019 11:59:51 AM



#84
1,2,4-Trimethylbenzene
Concen: 63.433 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.1	23.8	71.4





#85

sec-Butylbenzene

Concen: 51.784 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

Instrument :

MSVOA_D

ClientSampleId :

WP022SB439-190318-(13-14)MSD

Tot Ion:105 Resp: 1012365

Ion Ratio Lower Upper

105 100

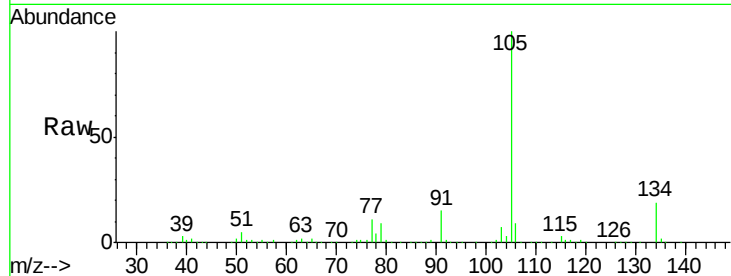
134 18.7 9.5 28.5

Manual Integrations

APPROVED

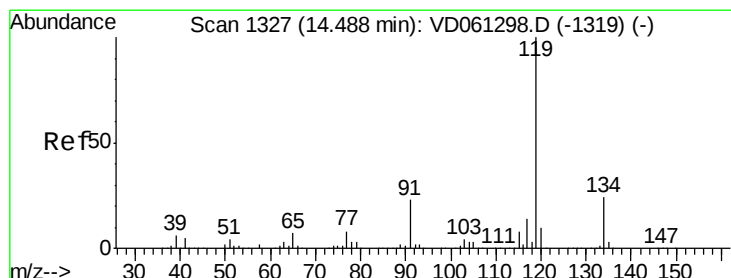
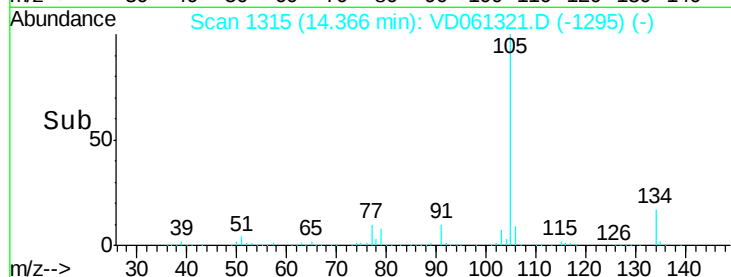
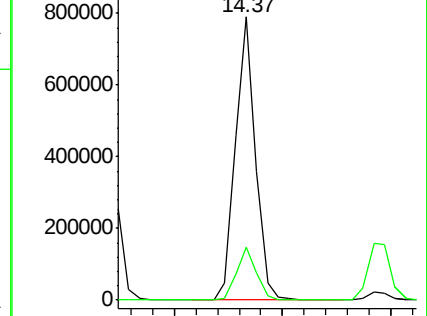
MMDadoda

3/26/2019 11:59:51 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 53.467 ug/l

RT: 14.48 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD061321.D

Acq: 26 Mar 2019 2:26

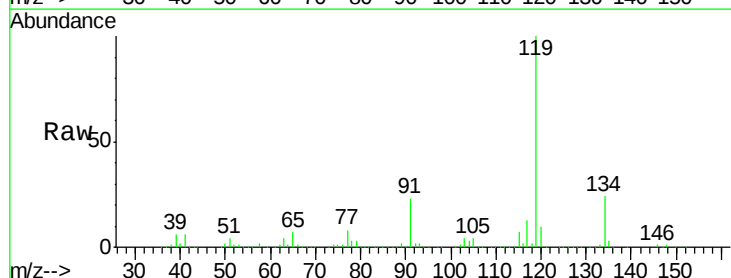
Tgt Ion:119 Resp: 932550

Ion Ratio Lower Upper

119 100

134 23.6 12.1 36.3

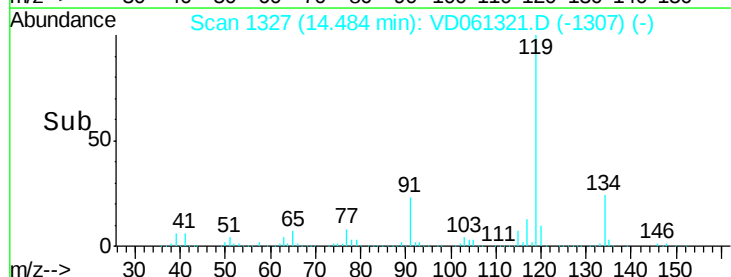
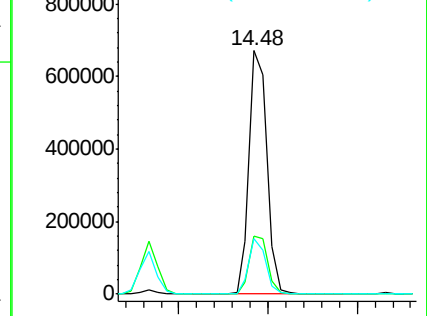
91 22.9 11.4 34.2

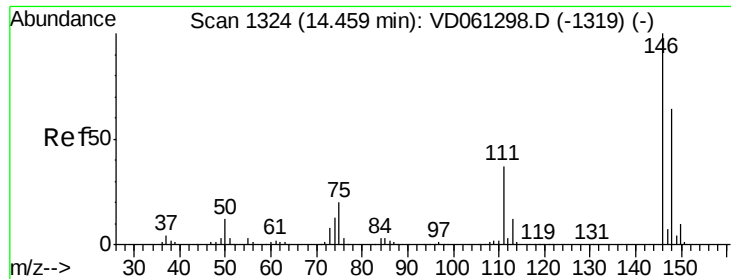


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V





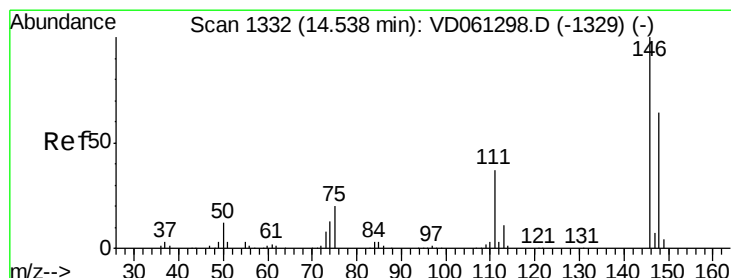
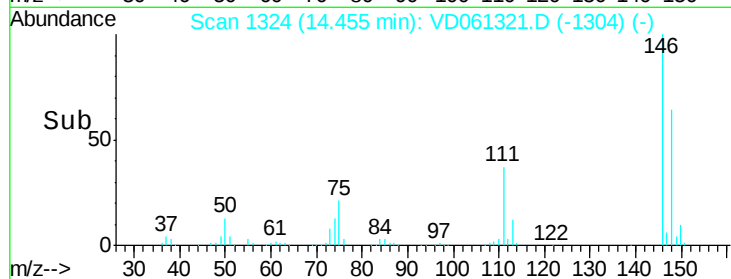
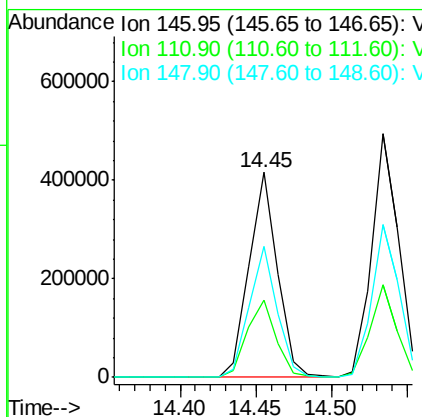
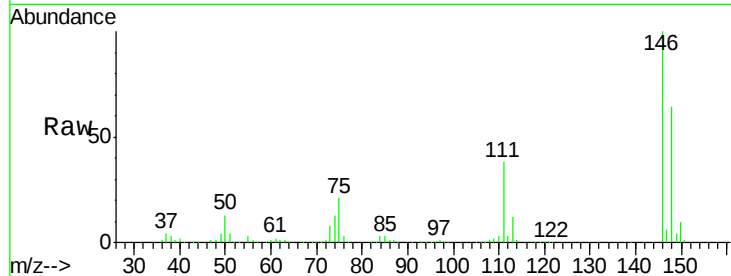
#87
 1,3-Dichlorobenzene
 Concen: 56.271 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	18.4	55.0
148	64.0	32.0	96.2

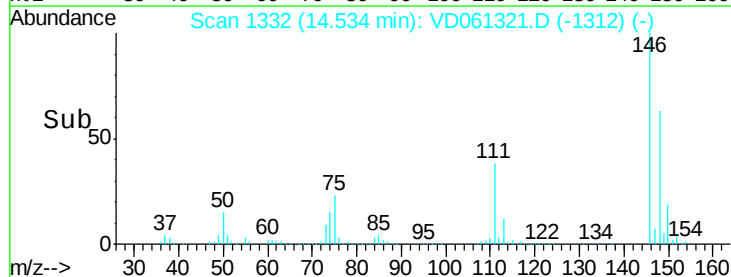
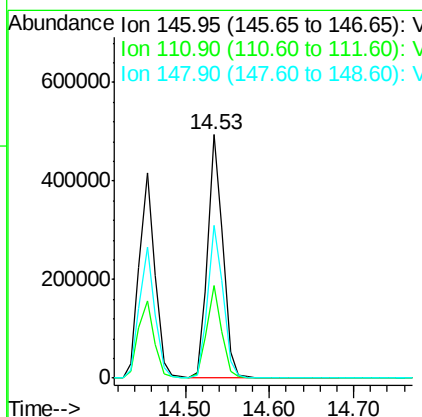
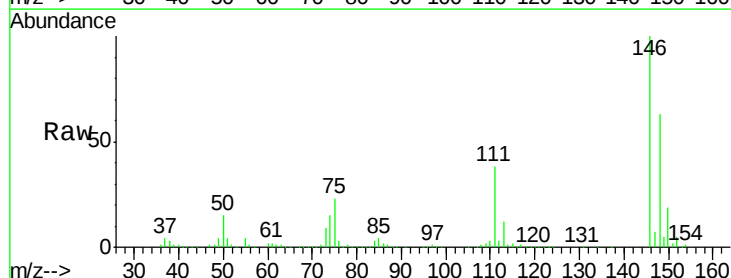
Manual Integrations
 APPROVED

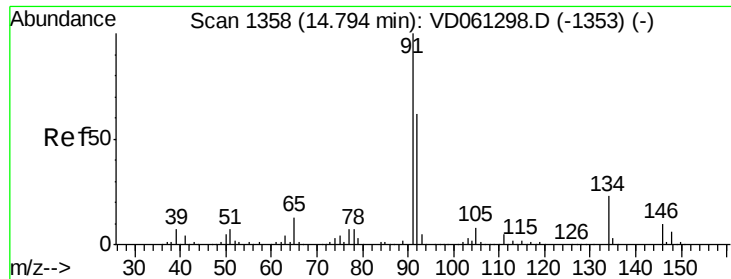
MMDadoda
 3/26/2019 11:59:51 AM



#88
 1,4-Dichlorobenzene
 Concen: 66.368 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.6	55.6
148	62.6	31.9	95.5





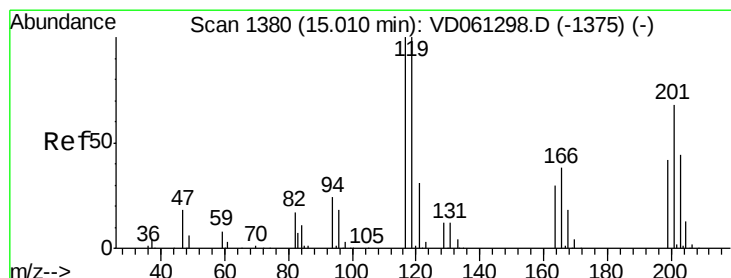
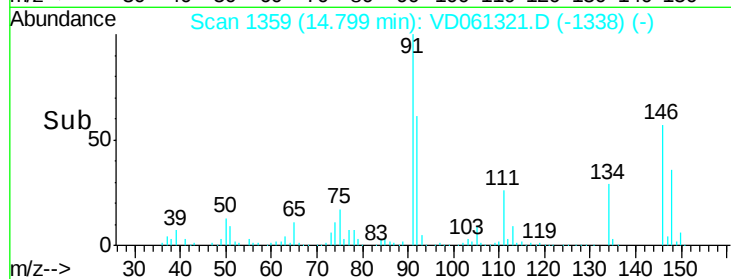
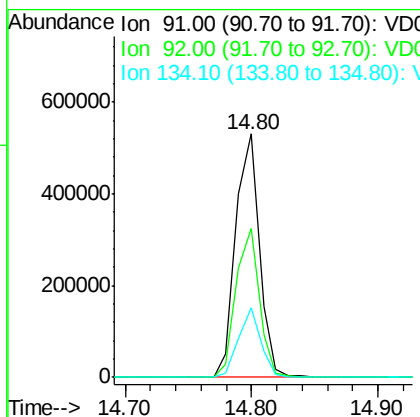
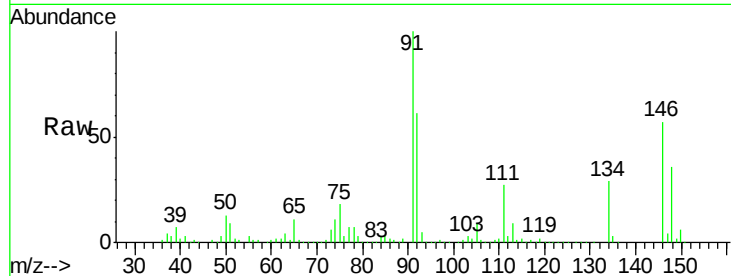
#89
n-Butylbenzene
Concen: 44.352 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
91	100	686796		
92	61.0	30.9	92.7	
134	28.7	11.7	35.0	

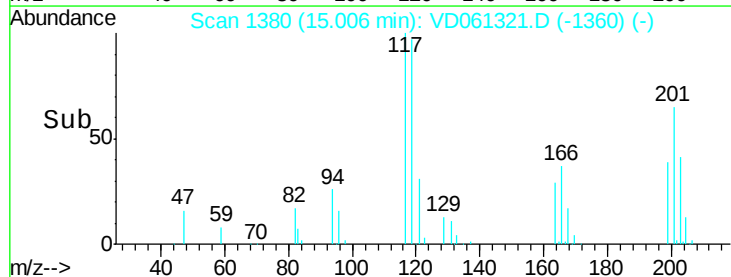
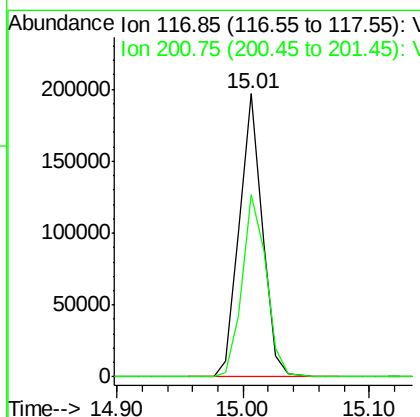
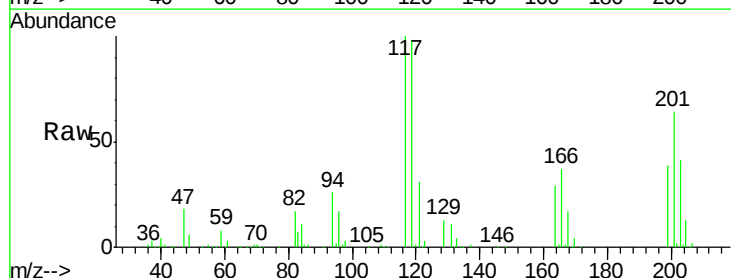
Manual Integrations
APPROVED

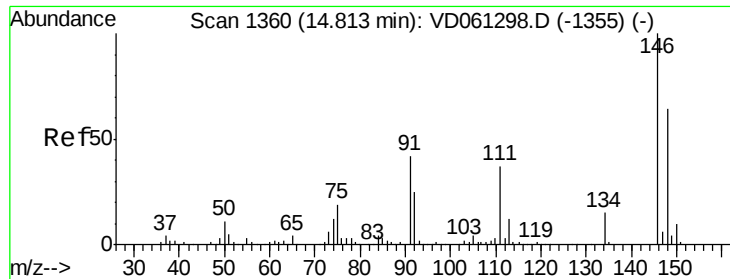
MMDadoda
3/26/2019 11:59:51 AM



#90
Hexachloroethane
Concen: 52.975 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	247729		
201	64.4	34.0	101.8	





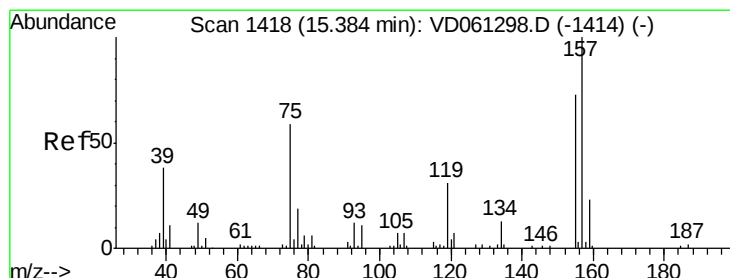
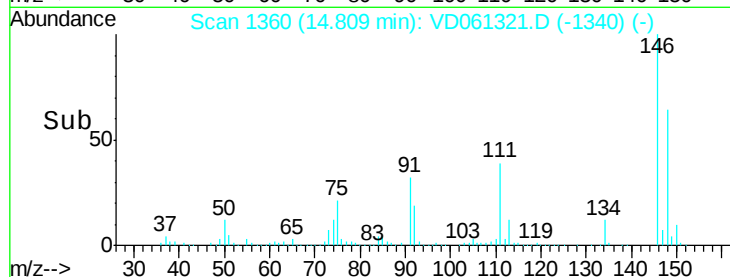
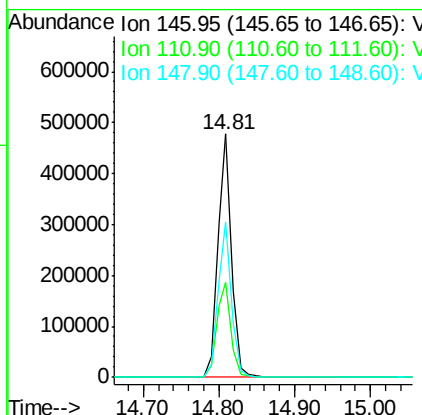
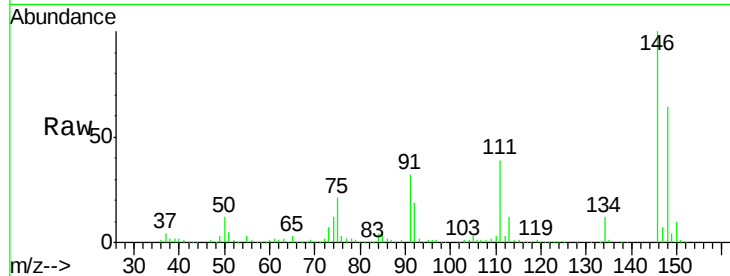
#91
 1,2-Dichlorobenzene
 Concen: 79.126 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.9	18.3	54.8
148	63.8	31.9	95.7

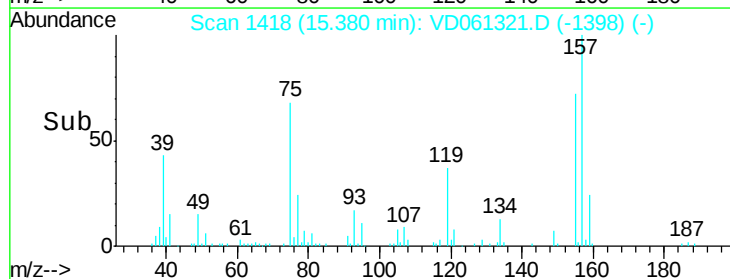
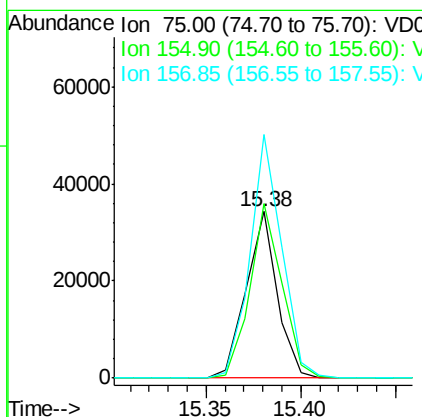
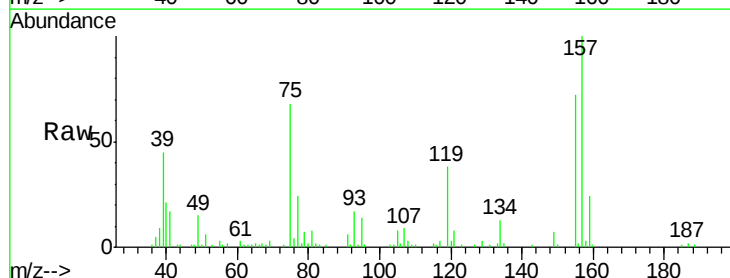
Manual Integrations
 APPROVED

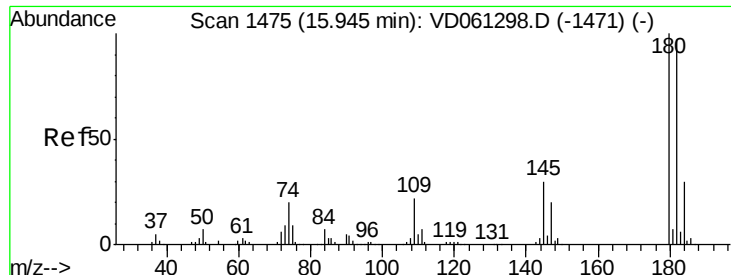
MMDadoda
 3/26/2019 11:59:51 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 82.365 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Lower	Upper
75	100		
155	105.0	61.9	185.7
157	146.1	84.4	253.2





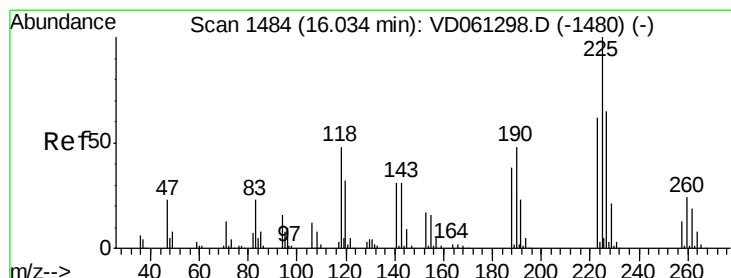
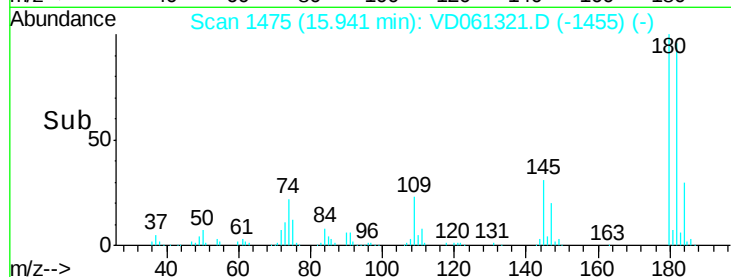
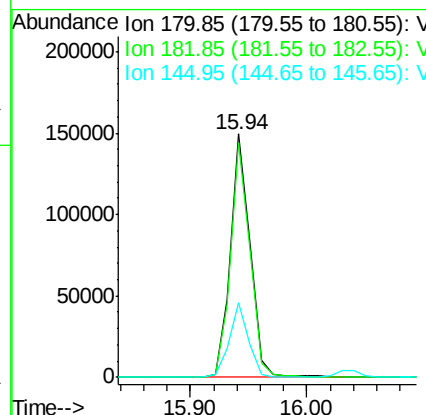
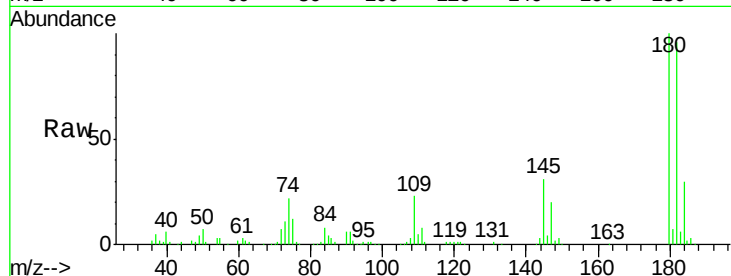
#93
 1,2,4-Trichlorobenzene
 Concen: 49.430 ug/l
 RT: 15.94 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Instrument :
 MSVOA_D
 ClientSampleId :
 WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
180	100	175769		
182	96.4	48.3	144.9	
145	30.7	14.8	44.4	

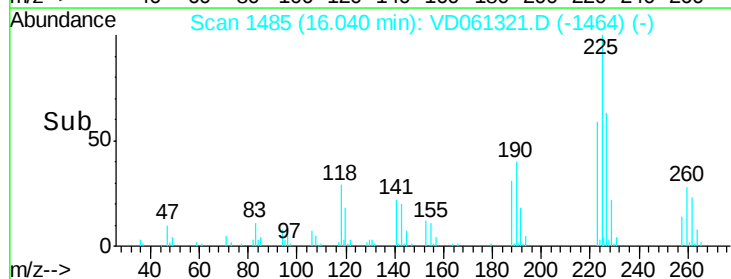
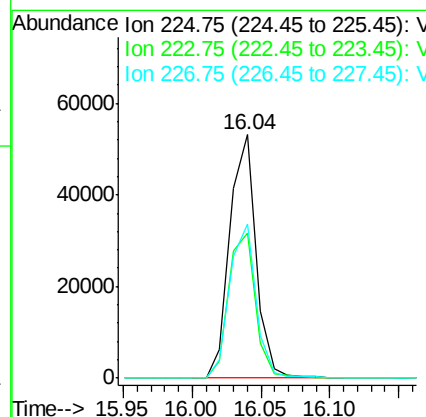
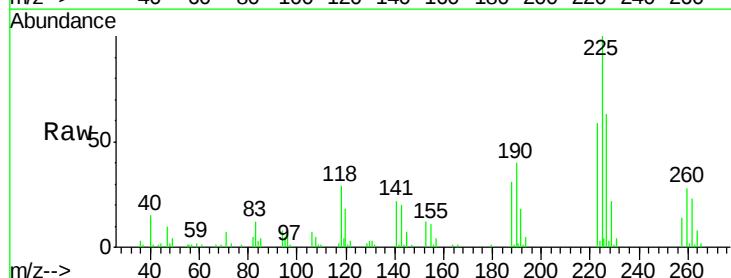
Manual Integrations
 APPROVED

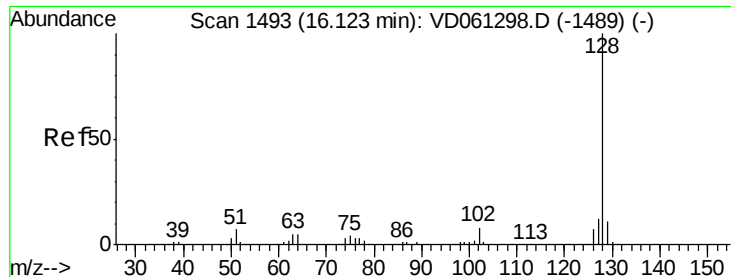
MMDadoda
 3/26/2019 11:59:51 AM



#94
 Hexachlorobutadiene
 Concen: 24.468 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD061321.D
 Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	70108		
223	59.5	30.9	92.8	
227	63.4	32.6	97.7	





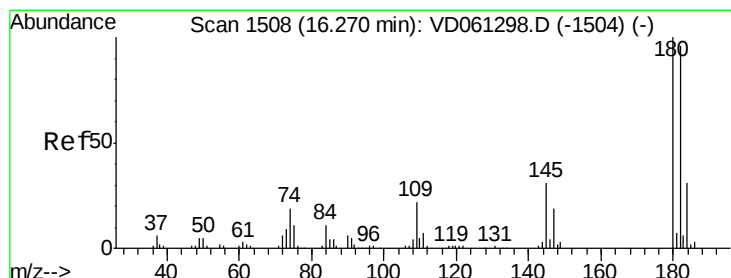
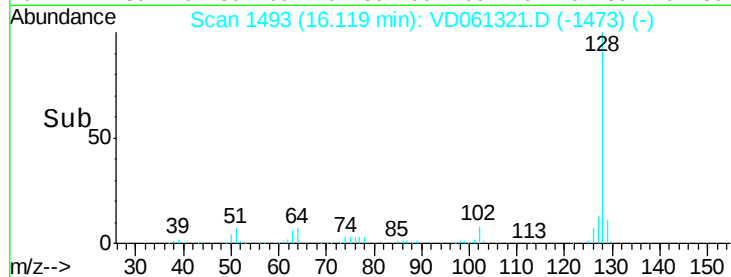
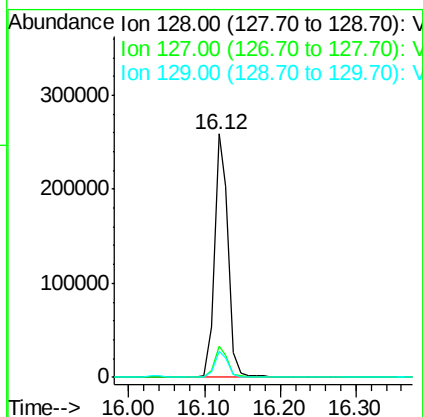
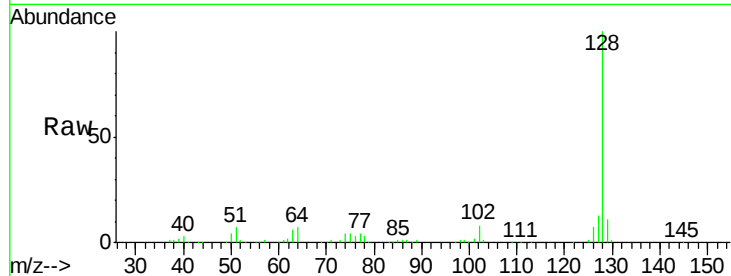
#95
Naphthalene
Concen: 63.879 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Instrument :
MSVOA_D
ClientSampleId :
WP022SB439-190318-(13-14)MSD

Tot Ion	Ratio	Resp	Lower	Upper
128	100	331441		
127	12.5		9.8	14.6
129	10.8		8.6	12.8

Manual Integrations
APPROVED

MMDadoda
3/26/2019 11:59:51 AM



#96
1,2,3-Trichlorobenzene
Concen: 47.864 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. -0.00 min
Lab File: VD061321.D
Acq: 26 Mar 2019 2:26

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	79495		
182	97.0		48.0	144.2
145	34.5		15.4	46.4

