

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012320\
 Data File : VD064929.D
 Acq On : 23 Jan 2020 11:26
 Operator : VA/SY
 Sample : VSTDIC010
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 1/24/2020 4:01:46 PM

Quant Time: Jan 23 12:55:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 12:45:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	435710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	647868	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	573696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	271527	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	40086	10.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	20.50%	
35) Dibromofluoromethane	7.92	113	38928	9.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	19.46%	
50) Toluene-d8	10.34	98	143389	9.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.60%	
62) 4-Bromofluorobenzene	12.64	95	44866	9.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	18.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	37422	11.104	ug/l	96
3) Chloromethane	2.21	50	56434	11.936	ug/l	96
4) Vinyl Chloride	2.35	62	63448	11.064	ug/l	98
5) Bromomethane	2.77	94	42082	10.229	ug/l	100
6) Chloroethane	2.93	64	41061	10.792	ug/l	93
7) Trichlorofluoromethane	3.27	101	99763	10.504	ug/l	96
8) Diethyl Ether	3.71	74	21365	11.103	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.09	101	44425	11.119	ug/l	98
10) Methyl Iodide	4.29	142	41046	9.595	ug/l	100
11) Tert butyl alcohol	5.25	59	12604	56.846	ug/l	96
12) 1,1-Dichloroethene	4.06	96	42838	11.266	ug/l	91
13) Acrolein	3.92	56	15934	53.071	ug/l	99
14) Allyl chloride	4.71	41	63685	10.670	ug/l	94
15) Acrylonitrile	5.44	53	45108	56.195	ug/l	98
16) Acetone	4.17	43	49600	61.732	ug/l	93
17) Carbon Disulfide	4.40	76	142073	11.484	ug/l	98
18) Methyl Acetate	4.72	43	21210	10.002	ug/l	99
19) Methyl tert-butyl Ether	5.49	73	90547	10.691	ug/l	99
20) Methylene Chloride	4.97	84	58412	12.795	ug/l	96
21) trans-1,2-Dichloroethene	5.48	96	48335	11.104	ug/l	95
22) Diisopropyl ether	6.37	45	129272	10.863	ug/l	97
23) Vinyl Acetate	6.31	43	362223	53.508	ug/l	99
24) 1,1-Dichloroethane	6.27	63	83661	11.695	ug/l	97
25) 2-Butanone	7.22	43	60938	57.118	ug/l	94
26) 2,2-Dichloropropane	7.21	77	75332	11.368	ug/l	98
27) cis-1,2-Dichloroethene	7.21	96	50218	10.752	ug/l	98
28) Bromochloromethane	7.55	49	28813	10.200	ug/l	100
29) Tetrahydrofuran	7.58	42	39082	59.350	ug/l	96
30) Chloroform	7.71	83	84609	11.295	ug/l	99
31) Cyclohexane	7.98	56	83080	11.598	ug/l #	92
32) 1,1,1-Trichloroethane	7.90	97	78559	11.170	ug/l	97
36) 1,1-Dichloropropene	8.11	75	67637	10.844	ug/l	99
37) Ethyl Acetate	7.30	43	28594	11.753	ug/l #	79
38) Carbon Tetrachloride	8.10	117	71396	10.768	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012320\
 Data File : VD064929.D
 Acq On : 23 Jan 2020 11:26
 Operator : VA/SY
 Sample : VSTDIC010
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleID :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 1/24/2020 4:01:46 PM

Quant Time: Jan 23 12:55:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 12:45:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	79381	10.563	ug/l	100
40) Benzene	8.35	78	183469	10.768	ug/l	99
41) Methacrylonitrile	7.53	41	12198m	8.556	ug/l	
42) 1,2-Dichloroethane	8.43	62	56306	11.389	ug/l	98
43) Isopropyl Acetate	8.46	43	52420	10.813	ug/l	98
44) Trichloroethene	9.11	130	53102	10.718	ug/l	89
45) 1,2-Dichloropropane	9.39	63	45981	11.323	ug/l	95
46) Dibromomethane	9.48	93	25503	11.354	ug/l	96
47) Bromodichloromethane	9.67	83	66106	11.041	ug/l	98
48) Methyl methacrylate	9.46	41	22755	10.031	ug/l	96
49) 1,4-Dioxane	9.47	88	5139	195.311	ug/l #	79
51) 4-Methyl-2-Pentanone	10.24	43	128155	53.113	ug/l	98
52) Toluene	10.41	92	114728	10.306	ug/l	95
53) t-1,3-Dichloropropene	10.63	75	57512	10.246	ug/l	97
54) cis-1,3-Dichloropropene	10.09	75	69615	10.548	ug/l	98
55) 1,1,2-Trichloroethane	10.81	97	33877	11.120	ug/l	93
56) Ethyl methacrylate	10.67	69	35540	9.364	ug/l	95
57) 1,3-Dichloropropane	10.96	76	58048	11.059	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.95	63	56438	40.135	ug/l	98
59) 2-Hexanone	10.99	43	87539	53.324	ug/l	95
60) Dibromochloromethane	11.14	129	44532	10.641	ug/l	99
61) 1,2-Dibromoethane	11.25	107	31885	10.672	ug/l	100
64) Tetrachloroethene	10.88	164	46682	10.718	ug/l	95
65) Chlorobenzene	11.68	112	126640	10.788	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	46306	10.414	ug/l	98
67) Ethyl Benzene	11.75	91	216581	10.113	ug/l	98
68) m/p-Xylenes	11.86	106	164552	19.955	ug/l	97
69) o-Xylene	12.18	106	71467	9.615	ug/l	98
70) Styrene	12.20	104	127589	9.722	ug/l	98
71) Bromoform	12.37	173	26197	10.392	ug/l #	98
73) Isopropylbenzene	12.48	105	199285	10.353	ug/l	100
74) N-amyl acetate	12.30	43	43572	10.561	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	36144	11.875	ug/l	99
76) 1,2,3-Trichloropropane	12.79	75	24569m	10.999	ug/l	
77) Bromobenzene	12.77	156	50163	10.635	ug/l	100
78) n-propylbenzene	12.83	91	238091	10.568	ug/l	99
79) 2-Chlorotoluene	12.91	91	132886	10.741	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	163423	10.363	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.53	75	11742	11.419	ug/l	98
82) 4-Chlorotoluene	13.01	91	139125	10.587	ug/l	100
83) tert-Butylbenzene	13.23	119	136424	9.977	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	170575	10.820	ug/l	98
85) sec-Butylbenzene	13.41	105	196755	10.467	ug/l	100
86) p-Isopropyltoluene	13.53	119	182450	10.163	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	95129	10.578	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	96292	10.912	ug/l	98
89) n-Butylbenzene	13.86	91	162440	10.002	ug/l	99
90) Hexachloroethane	14.12	117	36644	10.687	ug/l	95
91) 1,2-Dichlorobenzene	13.90	146	81909	10.680	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	5839	11.859	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012320\
Data File : VD064929.D
Acq On : 23 Jan 2020 11:26
Operator : VA/SY
Sample : VSTDICC010
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDICC010

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM

Quant Time: Jan 23 12:55:35 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 12:45:15 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	54837	9.820	ug/l	97
94) Hexachlorobutadiene	15.28	225	36019	10.262	ug/l	97
95) Naphthalene	15.41	128	82384	9.298	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	48775	10.196	ug/l	99

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

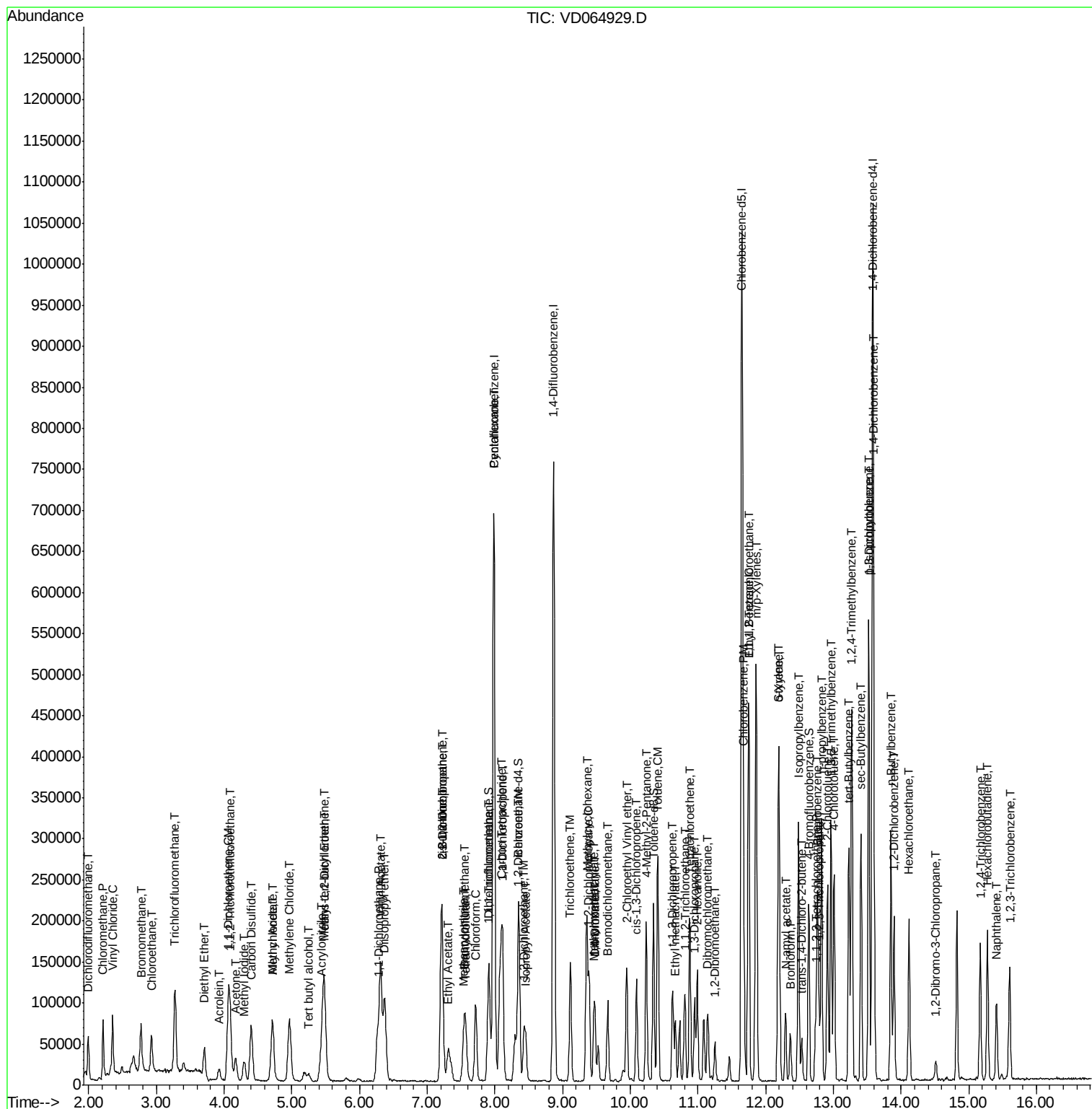
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD012320\
Data File : VD064929.D
Acq On : 23 Jan 2020 11:26
Operator : VA/SY
Sample : VSTDIC010
Misc : 5.00G/5.00ml/MSVOA D/SOIL
ALS Vial : 4 Sample Multiplier: 1

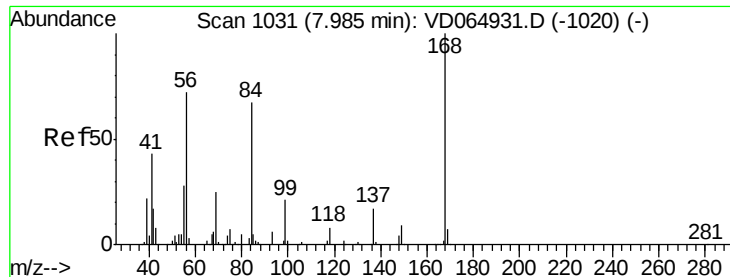
Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM

Quant Time: Jan 23 12:55:35 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 12:45:15 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion:168 Resp: 435710

Ion Ratio Lower Upper

168 100

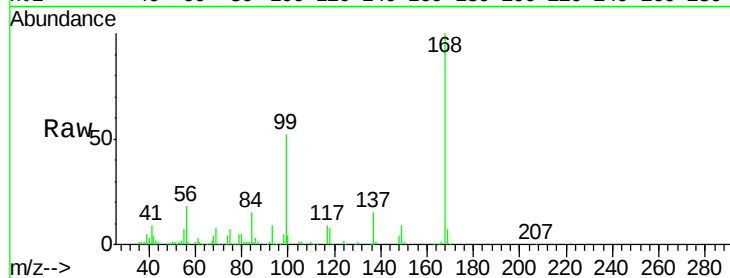
99 52.3 43.3 64.9

Manual Integrations

APPROVED

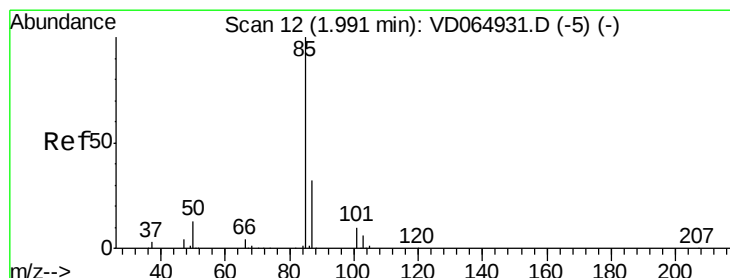
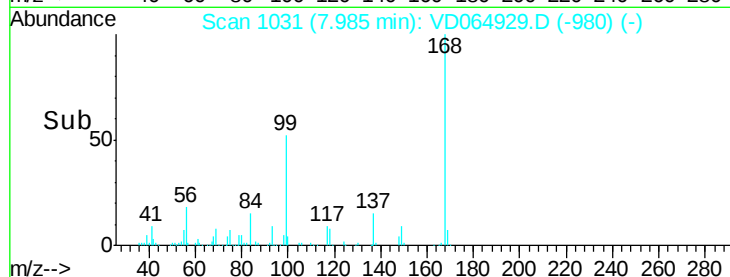
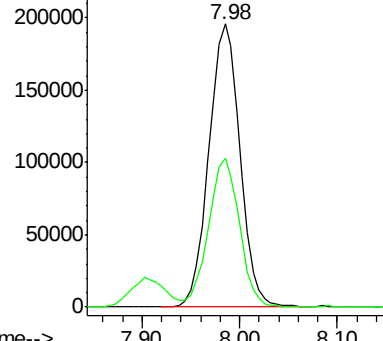
MMDadoda

1/24/2020 4:01:46 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 11.104 ug/l

RT: 1.99 min Scan# 12

Delta R.T. -0.00 min

Lab File: VD064929.D

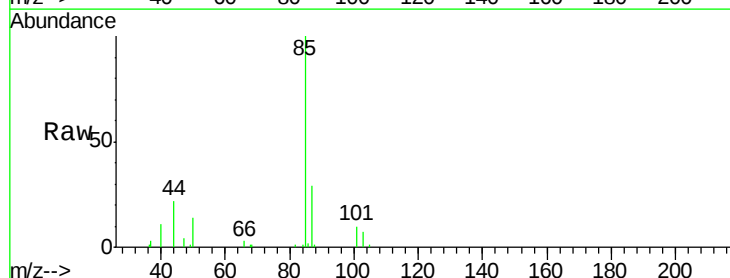
Acq: 23 Jan 2020 11:26

Tgt Ion: 85 Resp: 37422

Ion Ratio Lower Upper

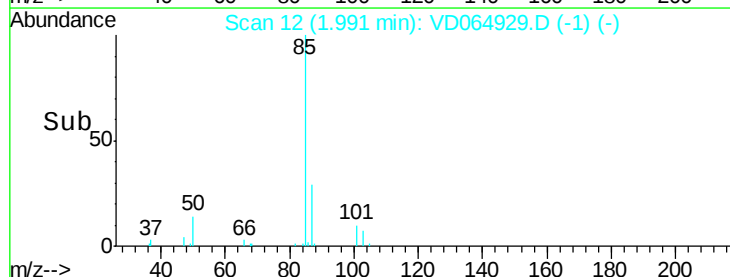
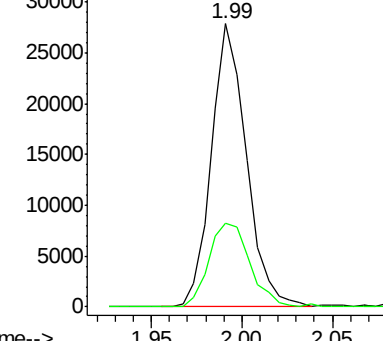
85 100

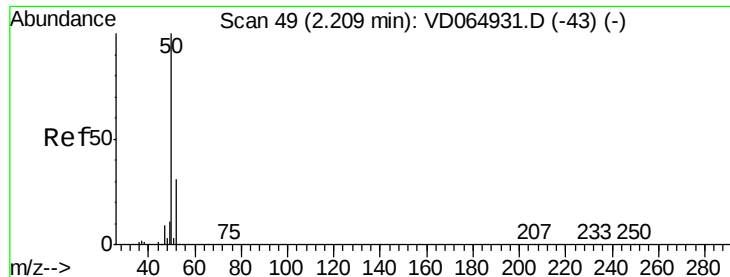
87 29.4 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 11.936 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 50 Resp: 56434

Ion Ratio Lower Upper

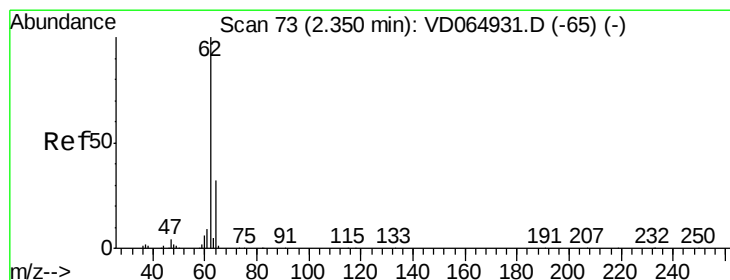
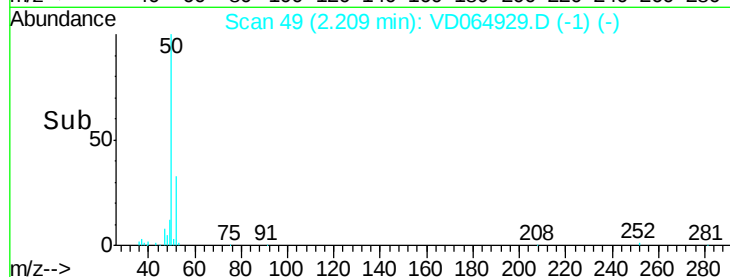
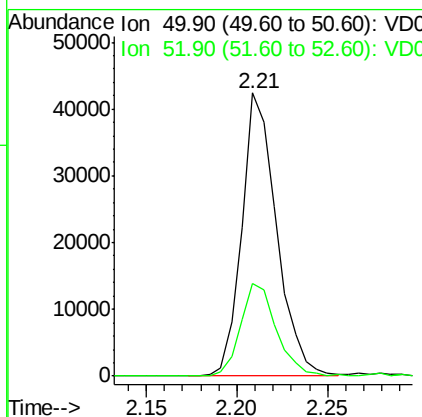
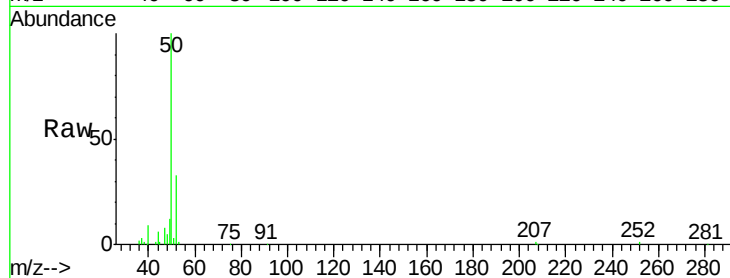
50 100

52 32.9 24.6 36.8

Manual Integrations
APPROVED

MMDadoda

1/24/2020 4:01:46 PM



#4

Vinyl Chloride

Concen: 11.064 ug/l

RT: 2.35 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD064929.D

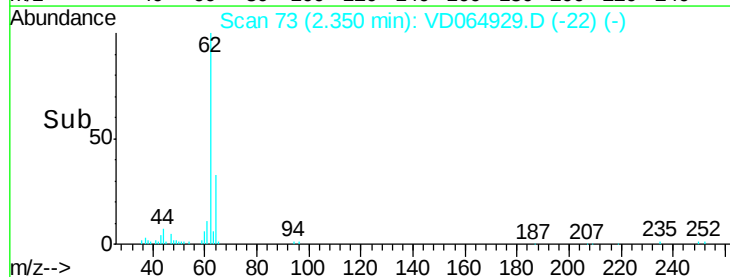
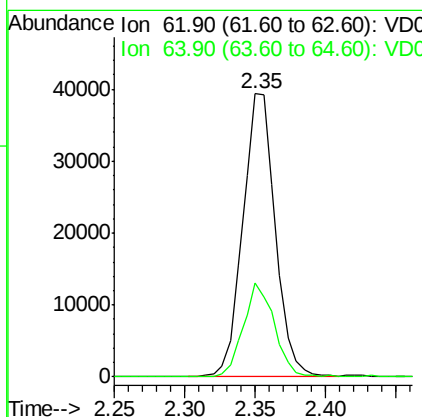
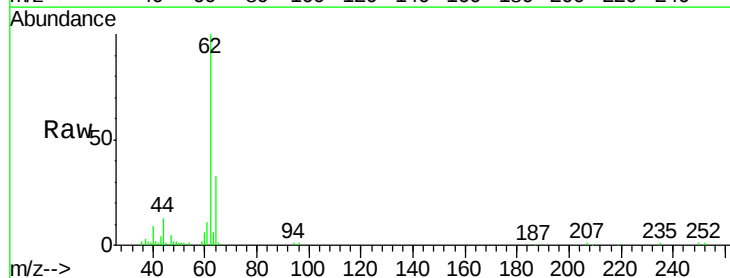
Acq: 23 Jan 2020 11:26

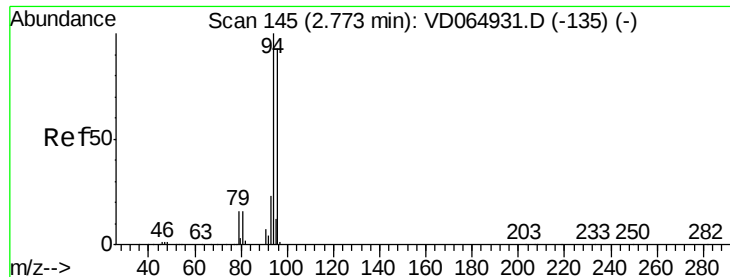
Tgt Ion: 62 Resp: 63448

Ion Ratio Lower Upper

62 100

64 33.3 25.6 38.4





#5

Bromomethane

Concen: 10.229 ug/l

RT: 2.77 min Scan# 145

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 94 Resp: 42082

Ion Ratio Lower Upper

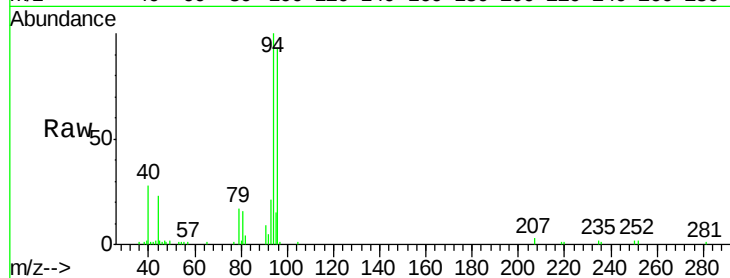
94 100

96 92.8 74.6 111.8

Manual Integrations
APPROVED

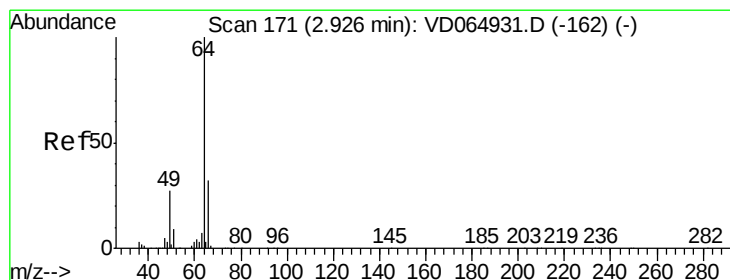
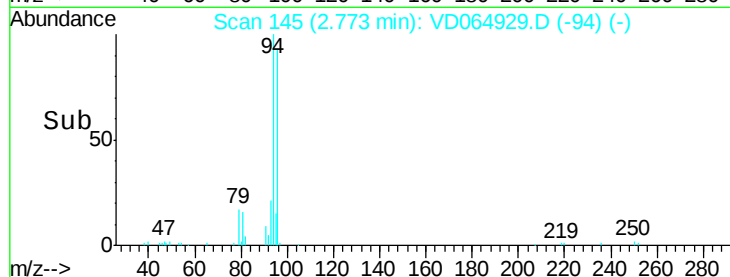
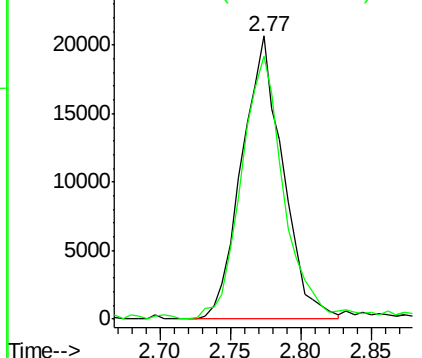
MMDadoda

1/24/2020 4:01:46 PM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 10.792 ug/l

RT: 2.93 min Scan# 171

Delta R.T. -0.00 min

Lab File: VD064929.D

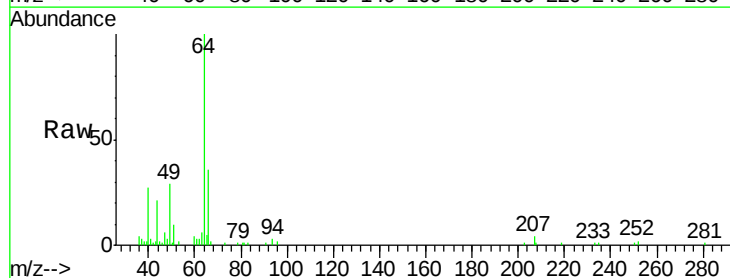
Acq: 23 Jan 2020 11:26

Tgt Ion: 64 Resp: 41061

Ion Ratio Lower Upper

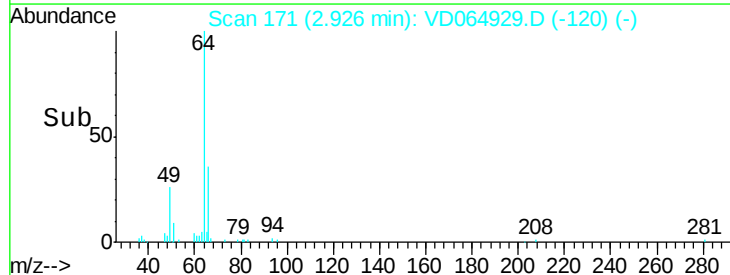
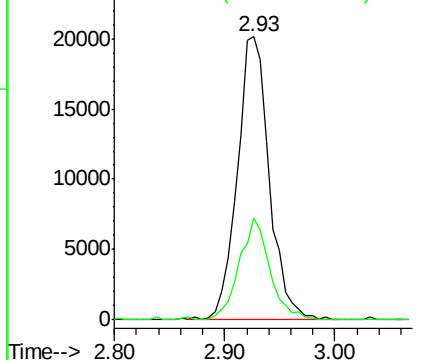
64 100

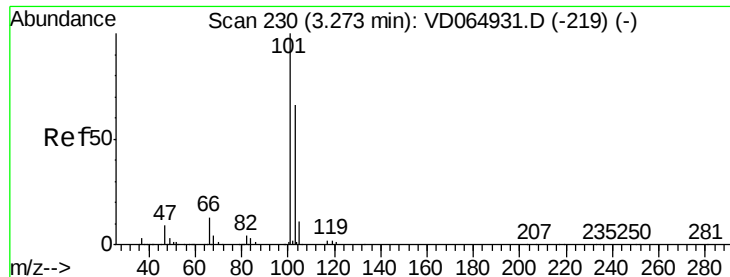
66 35.7 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

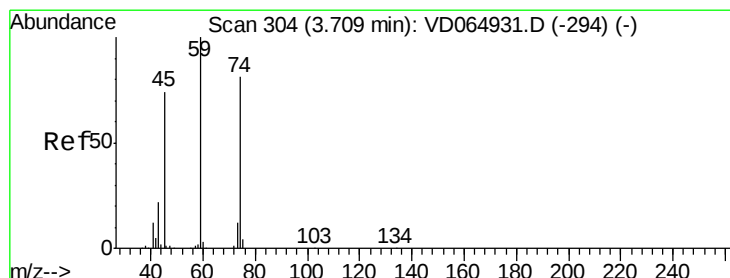
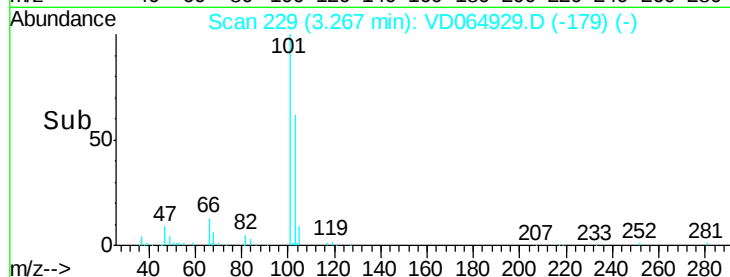
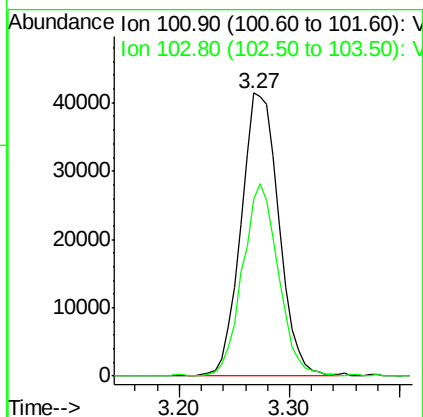
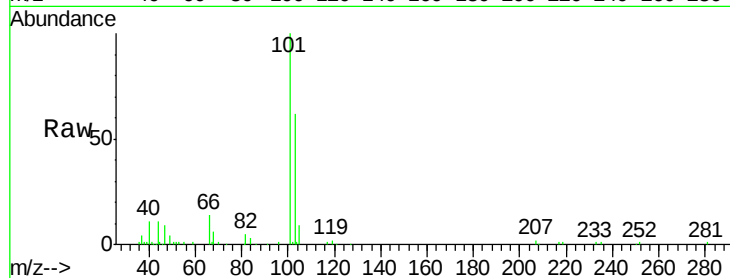
Trichlorofluoromethane
 Concen: 10.504 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. -0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
101	100		
103	62.4	52.5	78.7

Manual Integrations
 APPROVED

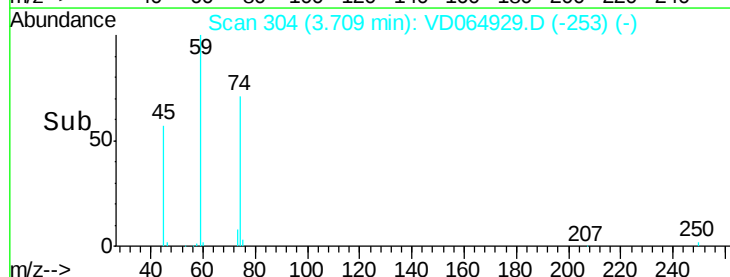
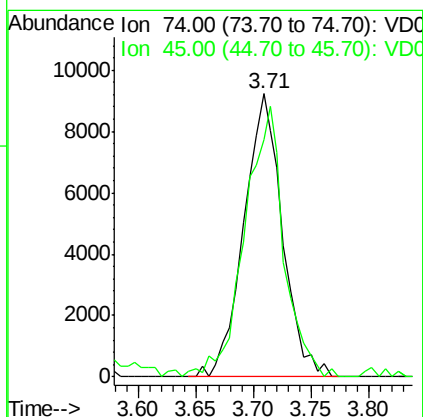
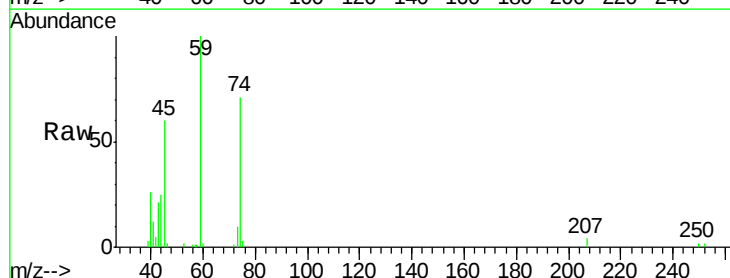
MMDadoda
 1/24/2020 4:01:46 PM

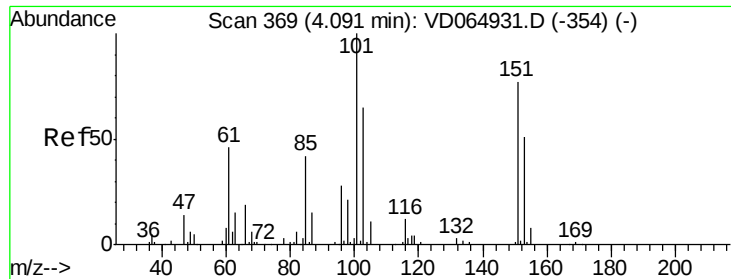


#8

Diethyl Ether
 Concen: 11.103 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.7	48.5	145.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.119 ug/l

RT: 4.09 min Scan# 369

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

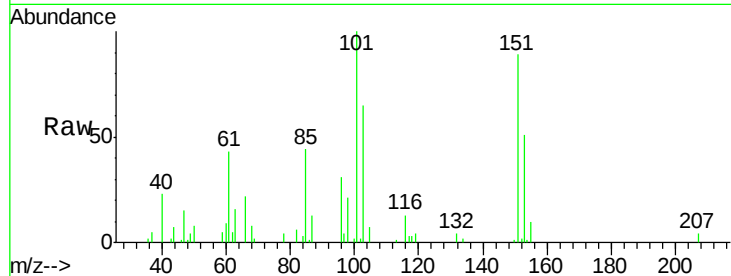
ClientSampleId :

VSTDIC010

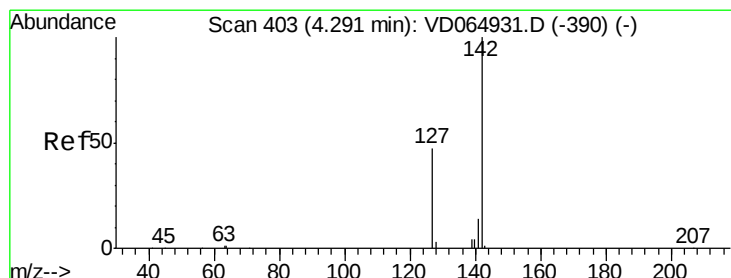
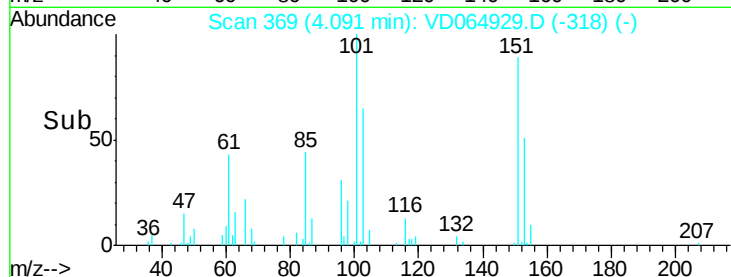
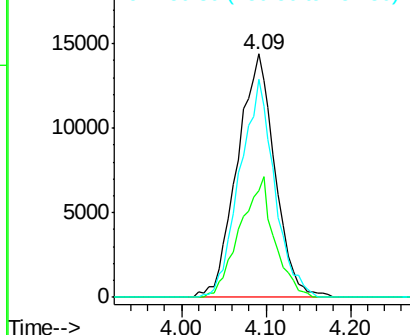
Tot Ion:	101	Resp:	44425
Ion Ratio	Lower	Upper	
101	100		
85	45.1	35.0	52.4
151	83.0	64.6	96.8

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 9.595 ug/l

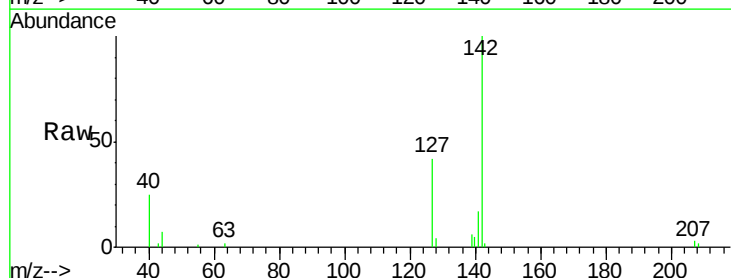
RT: 4.29 min Scan# 403

Delta R.T. -0.00 min

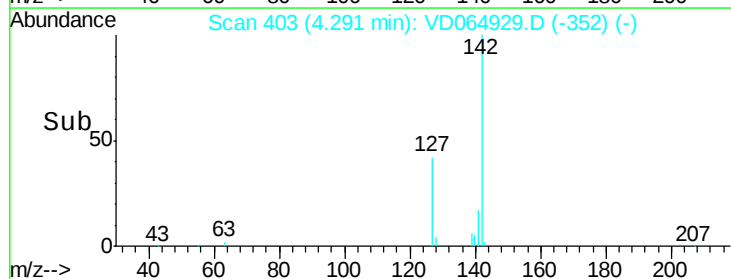
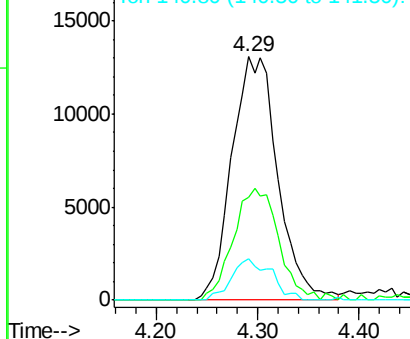
Lab File: VD064929.D

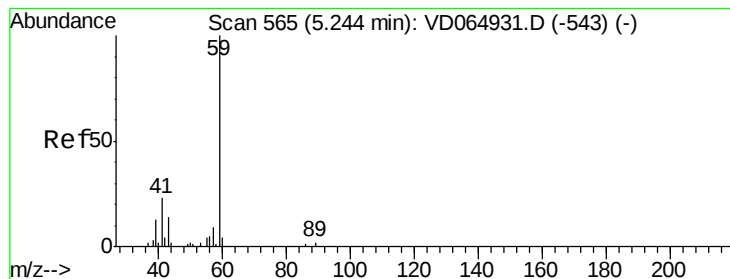
Acq: 23 Jan 2020 11:26

Tgt Ion:	142	Resp:	41046
Ion Ratio	Lower	Upper	
142	100		
127	45.0	36.2	54.2
141	14.8	11.6	17.4



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

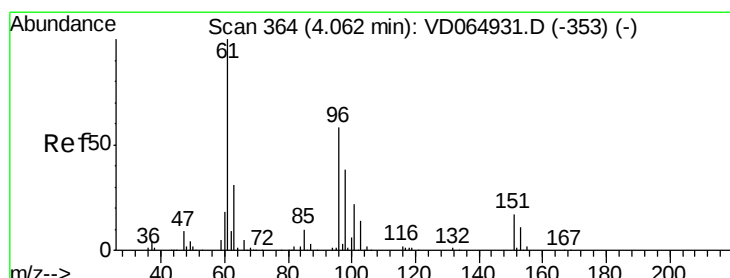
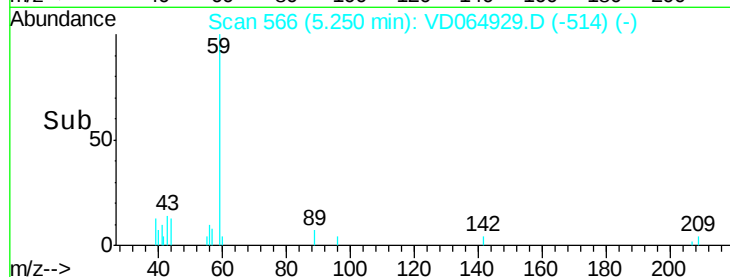
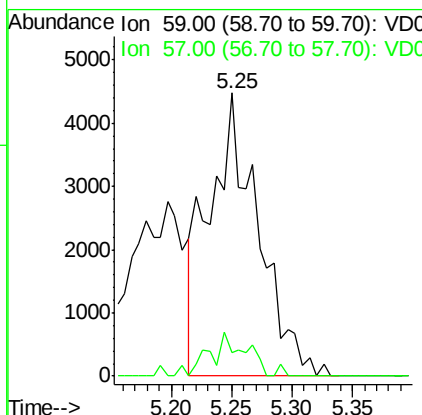
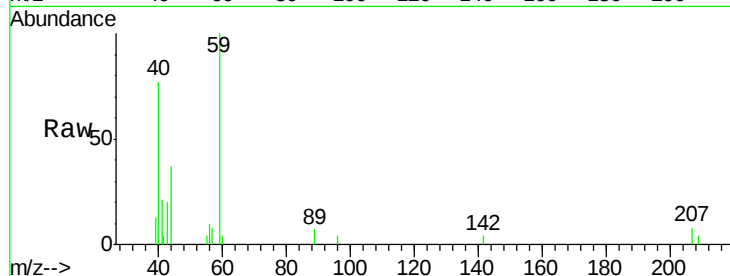
Tert butyl alcohol
Concen: 56.846 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion: 59 Resp: 12604
Ion Ratio Lower Upper
59 100
57 11.1 7.7 11.5

Manual Integrations
APPROVED

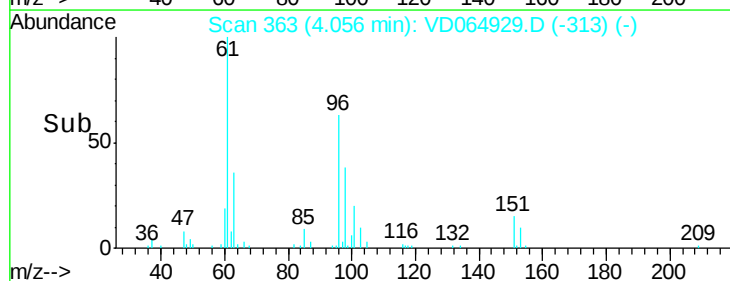
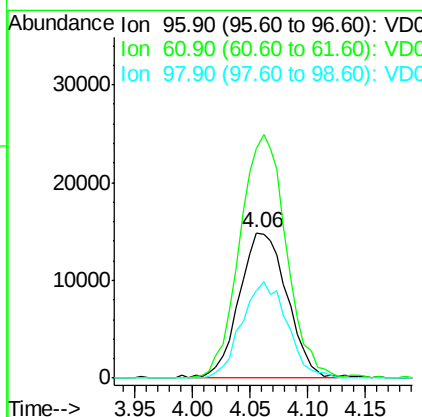
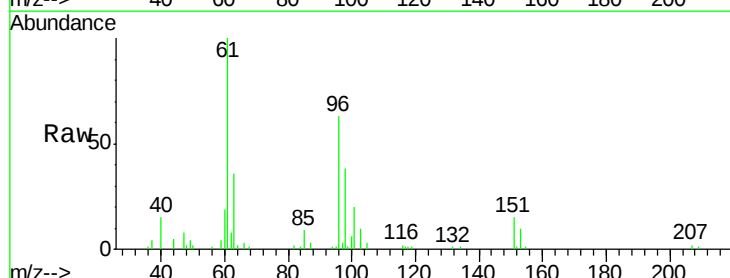
MMDadoda
1/24/2020 4:01:46 PM

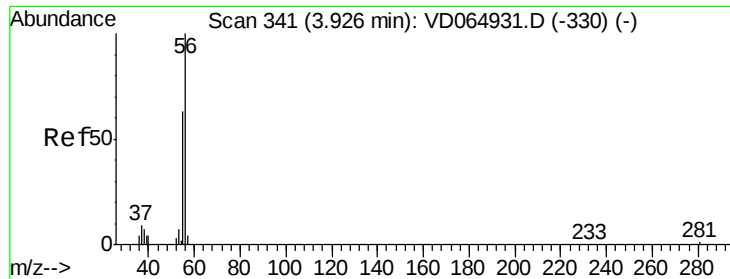


#12

1,1-Dichloroethene
Concen: 11.266 ug/l
RT: 4.06 min Scan# 363
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion: 96 Resp: 42838
Ion Ratio Lower Upper
96 100
61 157.8 137.0 205.4
98 60.4 52.1 78.1





#13

Acrolein

Concen: 53.071 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 56 Resp: 15934

Ion Ratio Lower Upper

56 100

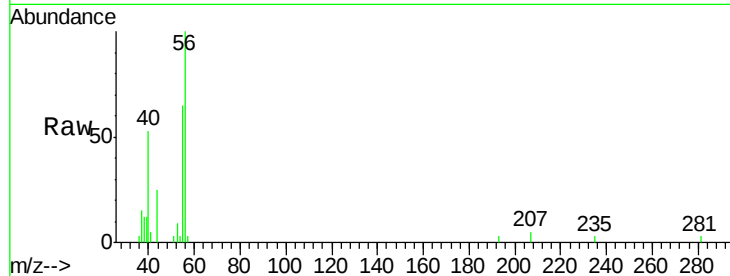
55 74.0 59.7 89.5

Manual Integrations

APPROVED

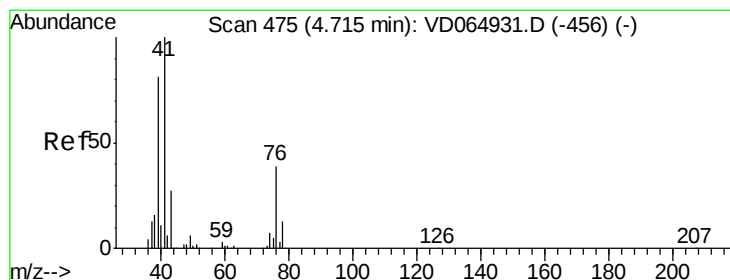
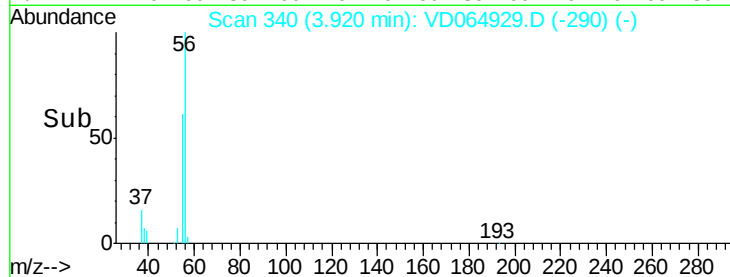
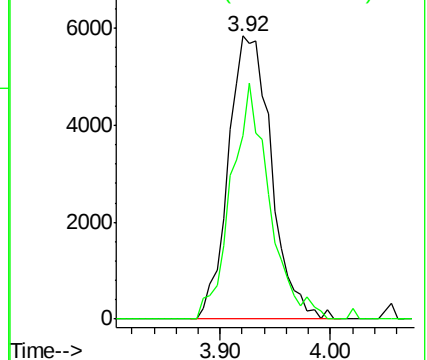
MMDadoda

1/24/2020 4:01:46 PM



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 10.670 ug/l

RT: 4.71 min Scan# 475

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

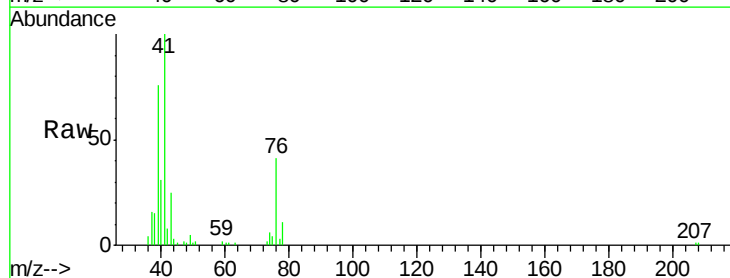
Tgt Ion: 41 Resp: 63685

Ion Ratio Lower Upper

41 100

39 82.1 62.0 93.0

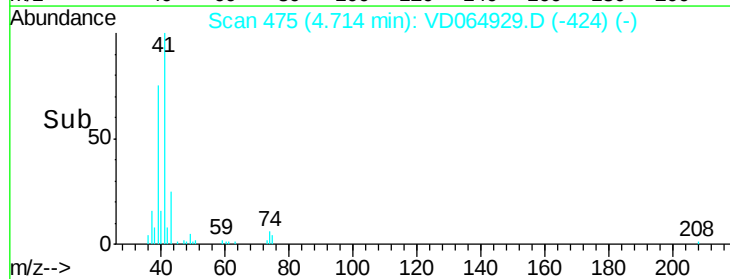
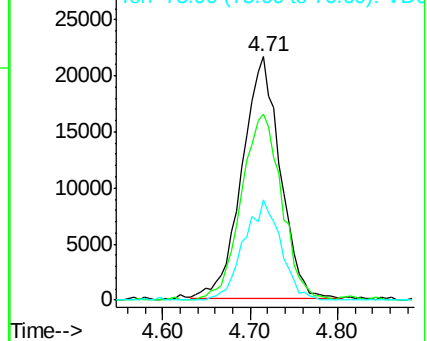
76 40.4 29.3 43.9

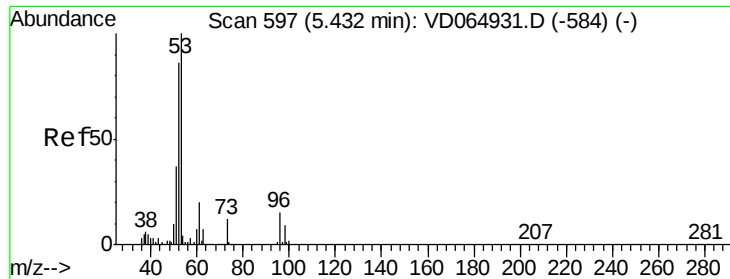


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





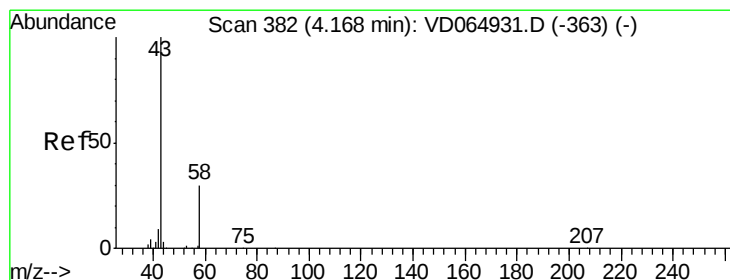
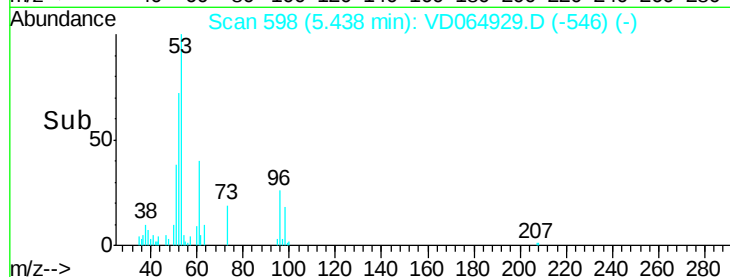
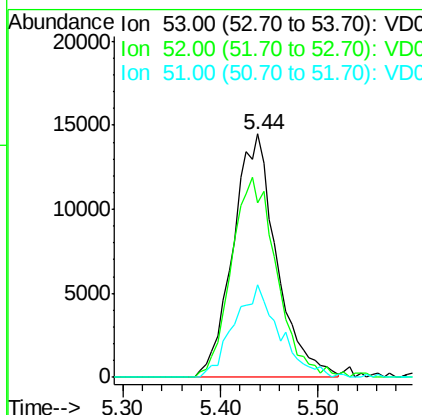
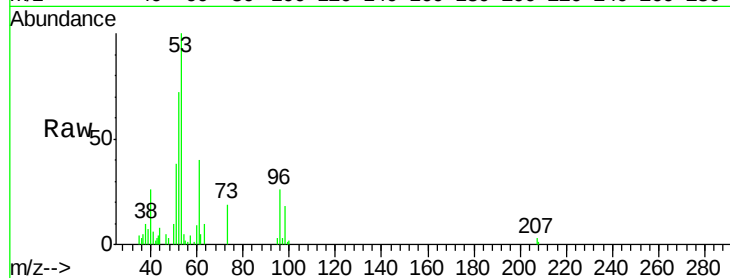
#15
 Acrylonitrile
 Concen: 56.195 ug/l
 RT: 5.44 min Scan# 598
 Delta R.T. 0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
53	100		
52	85.4	66.7	100.1
51	39.3	31.1	46.7

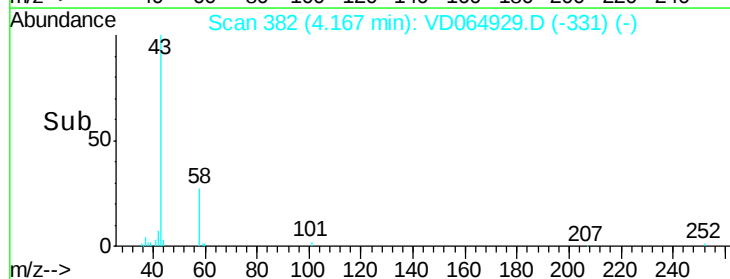
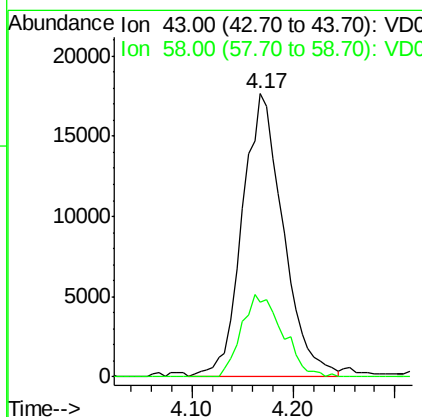
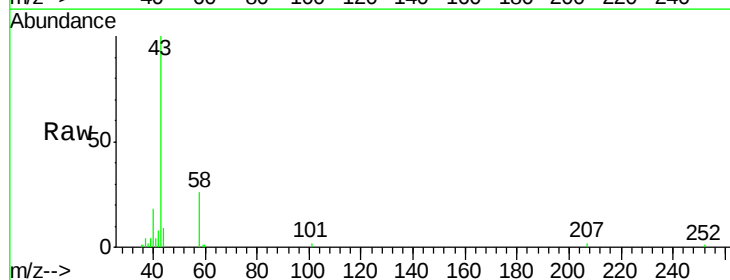
Manual Integrations
 APPROVED

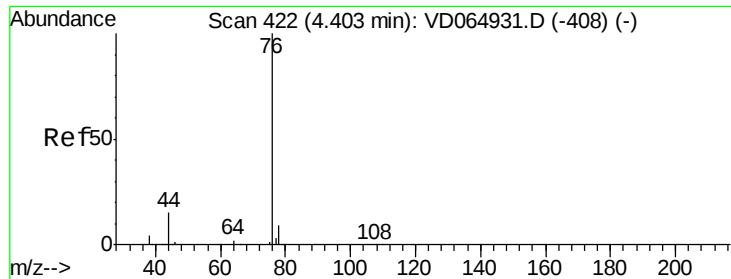
MMDadoda
 1/24/2020 4:01:46 PM



#16
 Acetone
 Concen: 61.732 ug/l
 RT: 4.17 min Scan# 382
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.2	23.8	35.8





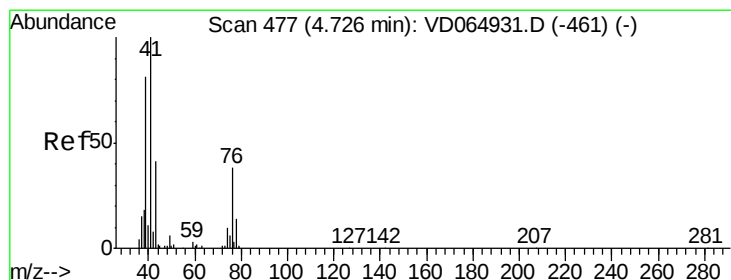
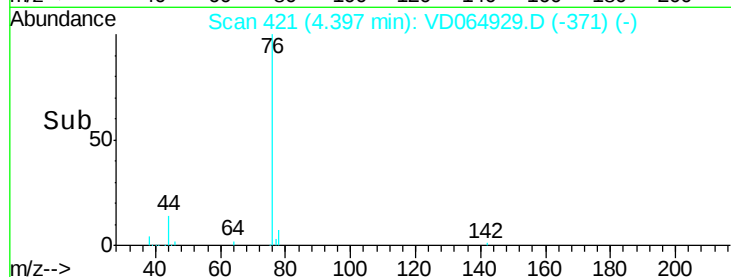
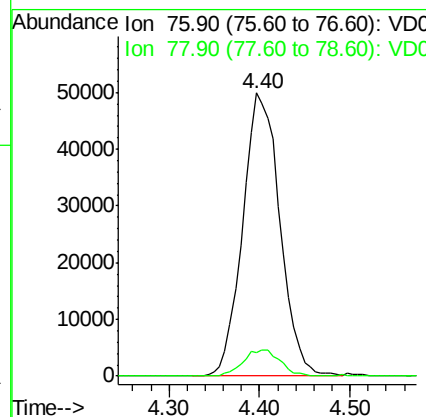
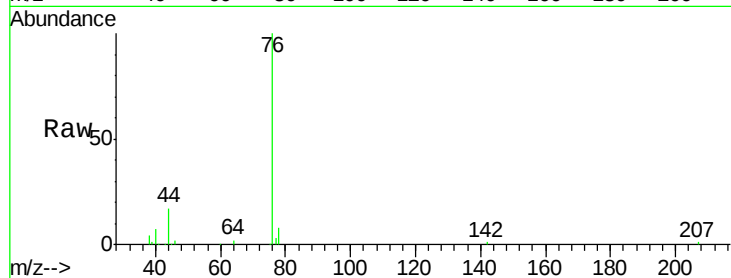
#17
Carbon Disulfide
Concen: 11.484 ug/l
RT: 4.40 min Scan# 421
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.2	7.1	10.7

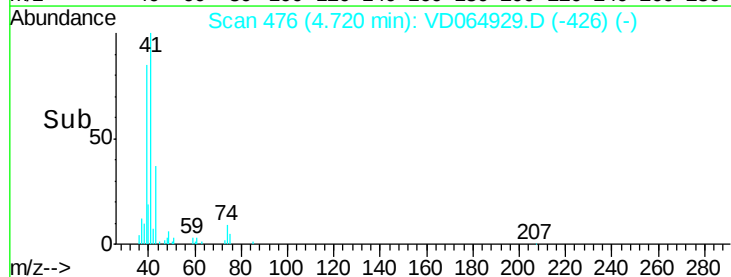
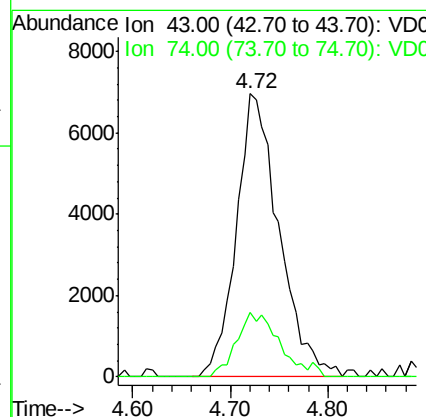
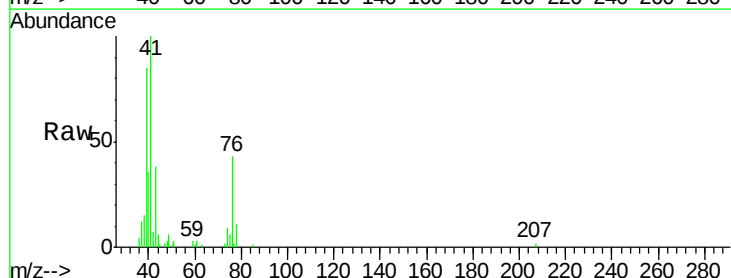
Manual Integrations
APPROVED

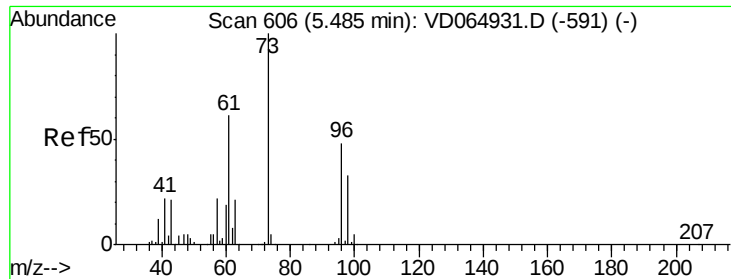
MMDadoda
1/24/2020 4:01:46 PM



#18
Methyl Acetate
Concen: 10.002 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.3	19.1	28.7





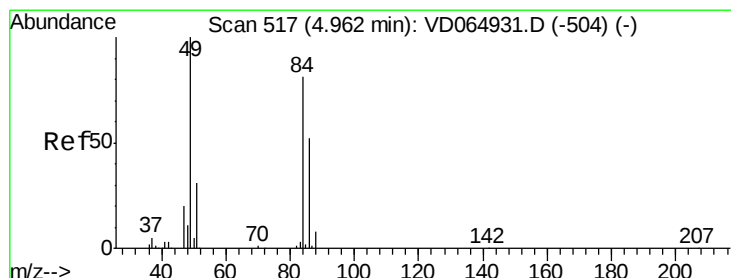
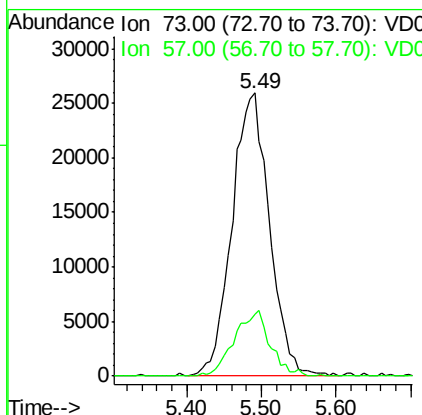
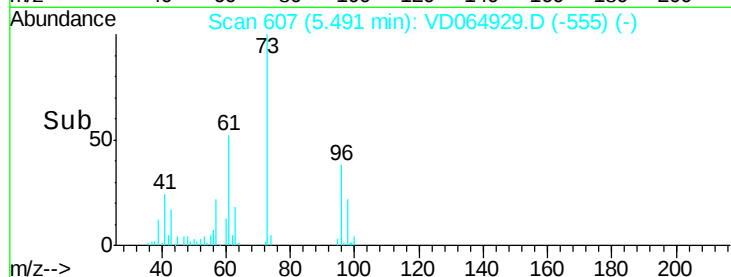
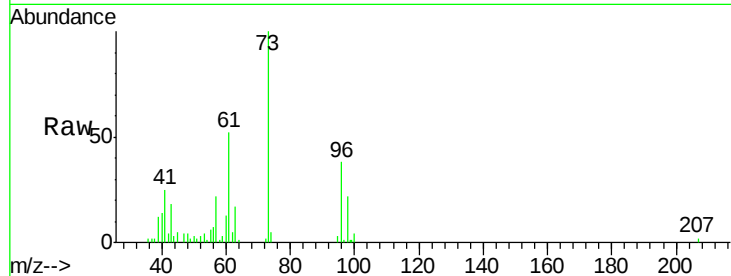
#19
Methvl tert-butvl Ether
Concen: 10.691 ug/l
RT: 5.49 min Scan# 607
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion: 73 Resp: 90547
Ion Ratio Lower Upper
73 100
57 21.8 17.9 26.9

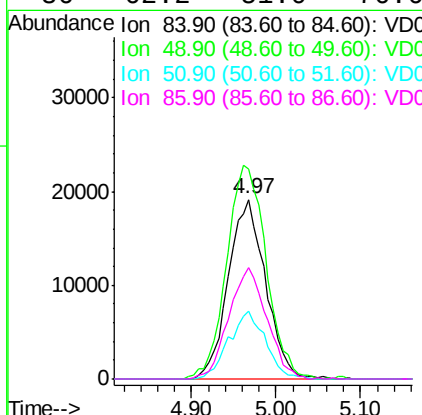
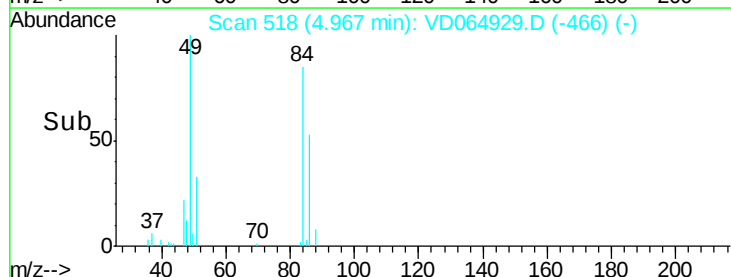
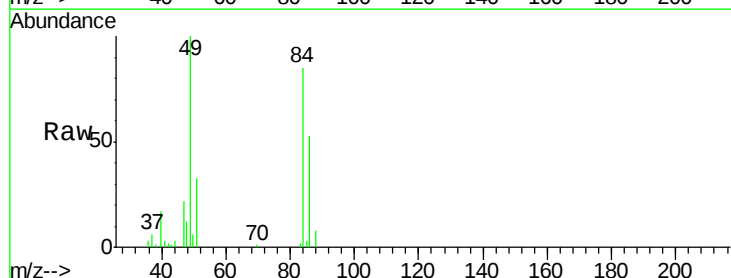
Manual Integrations
APPROVED

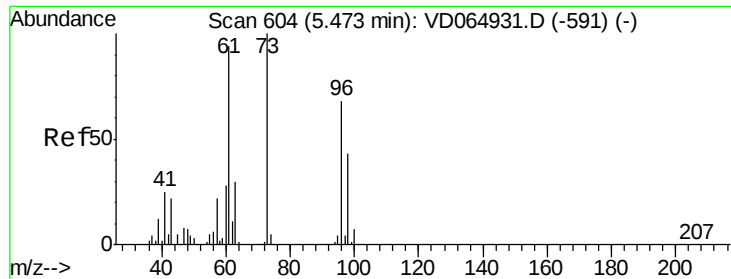
MMDadoda
1/24/2020 4:01:46 PM



#20
Methylene Chloride
Concen: 12.795 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion: 84 Resp: 58412
Ion Ratio Lower Upper
84 100
49 115.8 98.4 147.6
51 38.1 30.8 46.2
86 62.2 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 11.104 ug/l

RT: 5.48 min Scan# 605

Delta R.T. 0.01 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

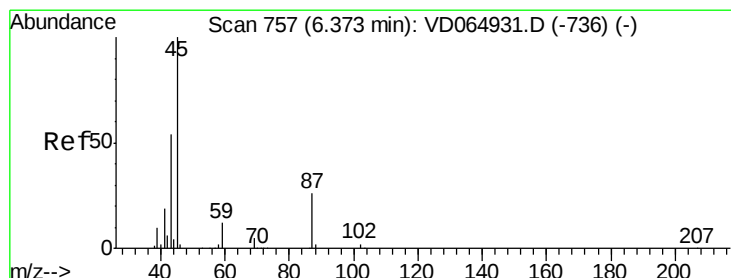
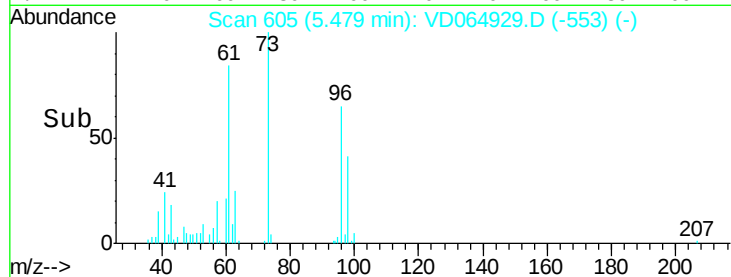
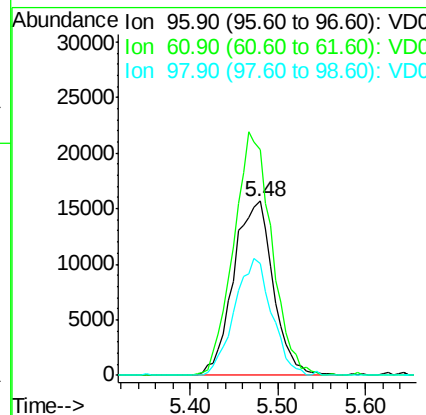
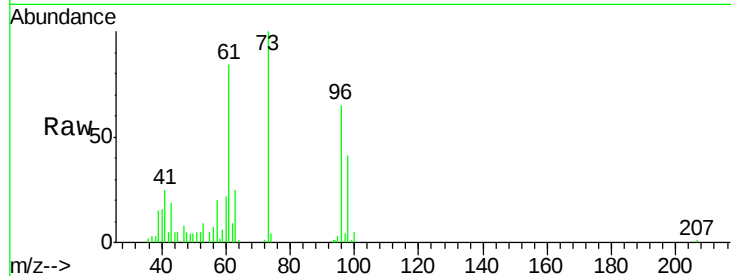
ClientSampleId :

VSTDIC010

Tot Ion:	96	Resp:	48335
Ion	Ratio	Lower	Upper
96	100		
61	129.3	110.4	165.6
98	63.8	50.5	75.7

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



#22

Diisopropyl ether

Concen: 10.863 ug/l

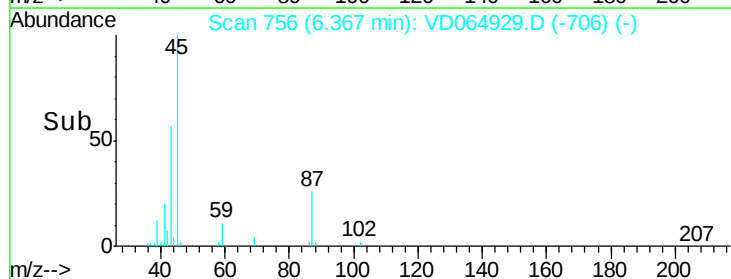
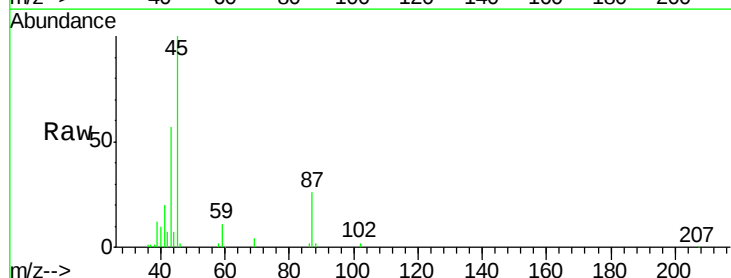
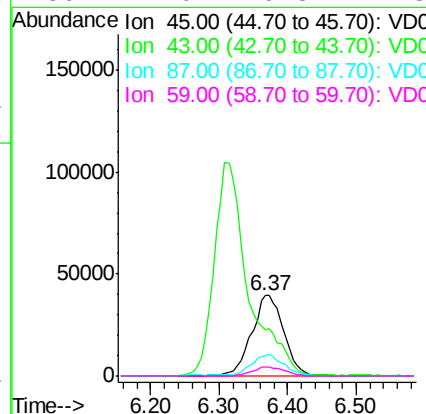
RT: 6.37 min Scan# 756

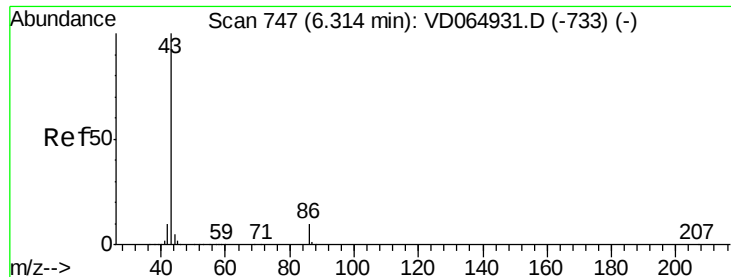
Delta R.T. -0.01 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Tgt Ion:	45	Resp:	129272
Ion	Ratio	Lower	Upper
45	100		
43	55.8	43.1	64.7
87	25.7	21.4	32.2
59	11.0	9.5	14.3





#23

Vinyl Acetate

Concen: 53.508 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 362223

Ion Ratio Lower Upper

43 100

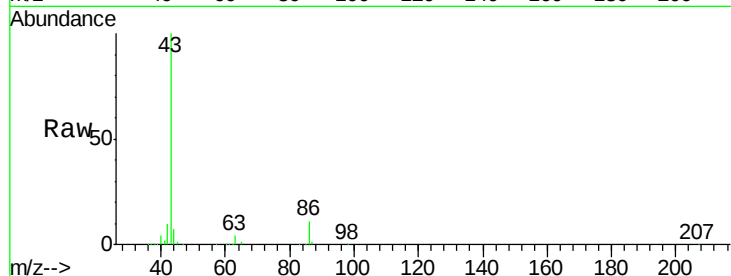
86 10.8 8.3 12.5

Manual Integrations

APPROVED

MMDadoda

1/24/2020 4:01:46 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

120000

100000

80000

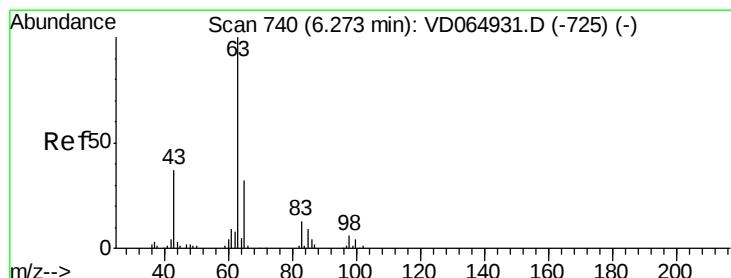
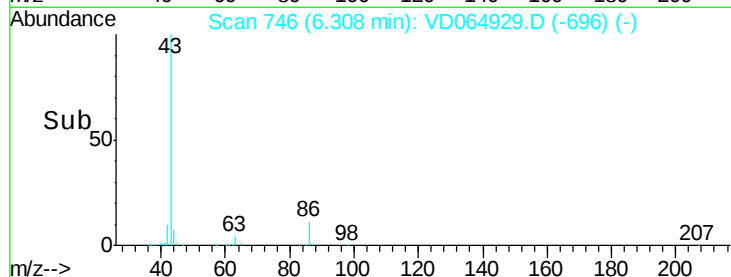
60000

40000

20000

0

Time-->



#24

1,1-Dichloroethane

Concen: 11.695 ug/l

RT: 6.27 min Scan# 740

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

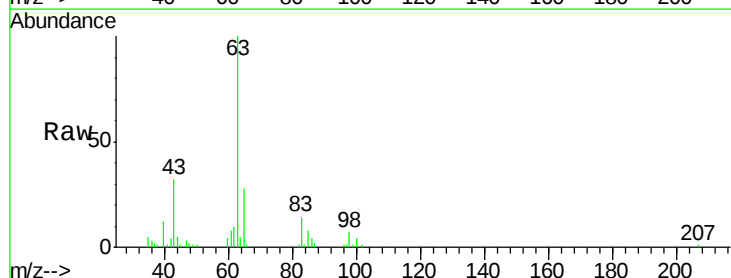
Tgt Ion: 63 Resp: 83661

Ion Ratio Lower Upper

63 100

98 7.3 3.1 9.3

100 3.9 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC

6.27

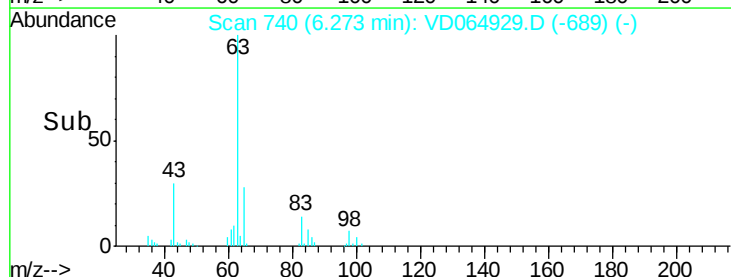
30000

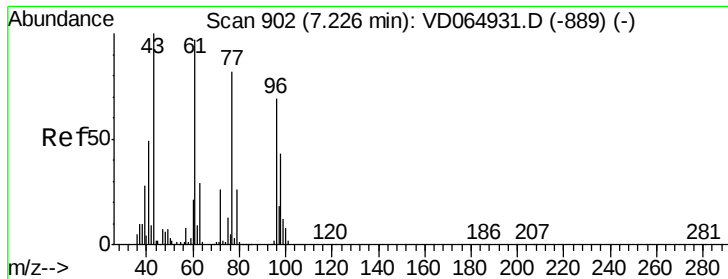
20000

10000

0

Time-->





#25

2-Butanone

Concen: 57.118 ug/l

RT: 7.22 min Scan# 901

Delta R.T. -0.01 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 60938

Ion Ratio Lower Upper

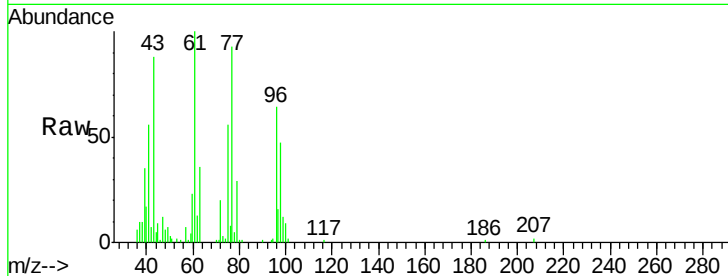
43 100

72 22.8 20.6 31.0

Manual Integrations
APPROVED

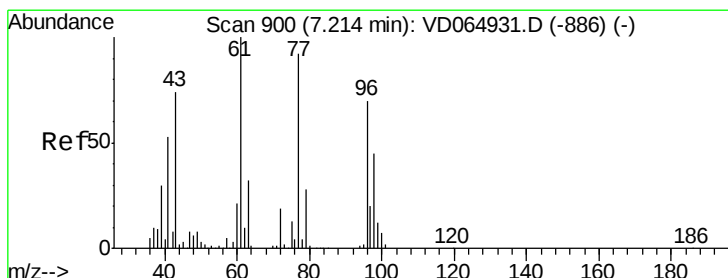
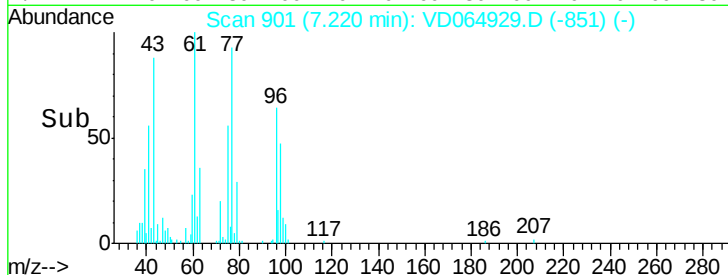
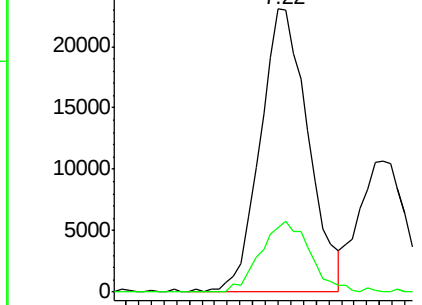
MMDadoda

1/24/2020 4:01:46 PM



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 11.368 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD064929.D

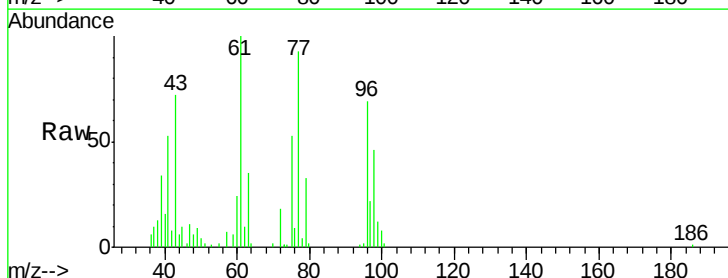
Acq: 23 Jan 2020 11:26

Tgt Ion: 77 Resp: 75332

Ion Ratio Lower Upper

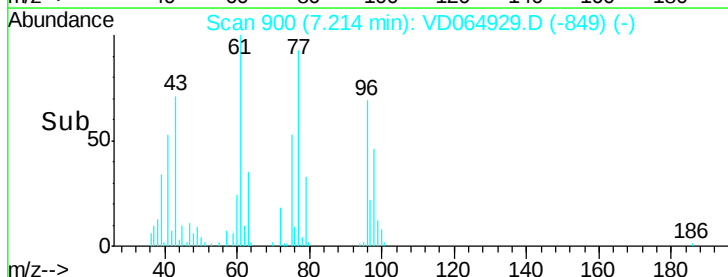
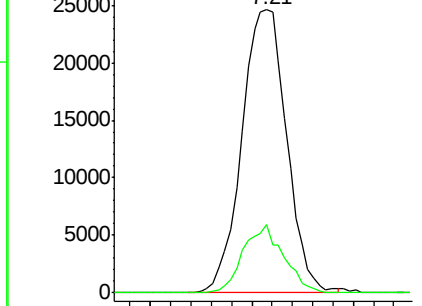
77 100

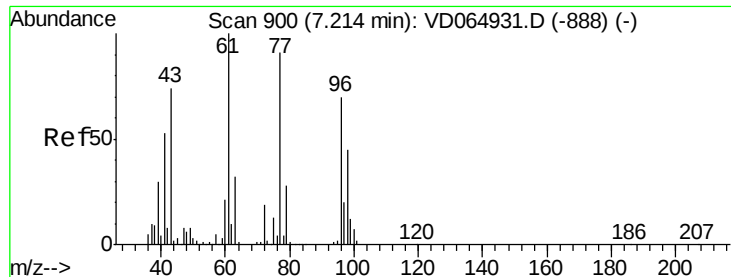
97 21.7 11.4 34.2



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC





#27

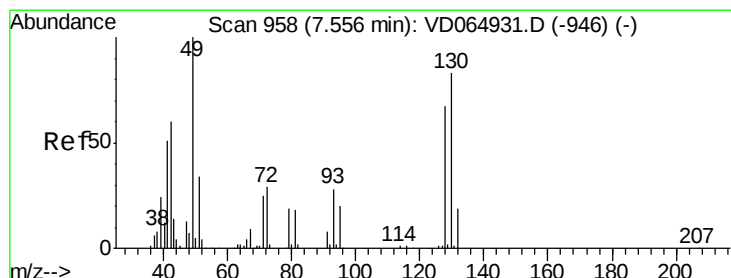
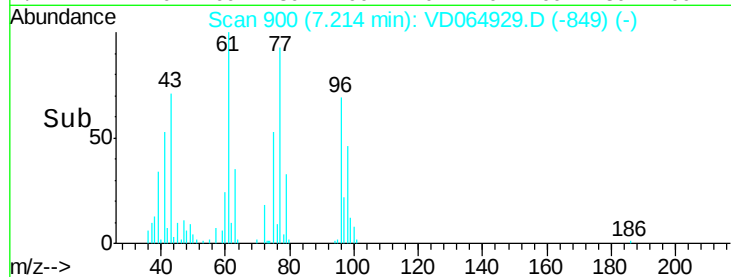
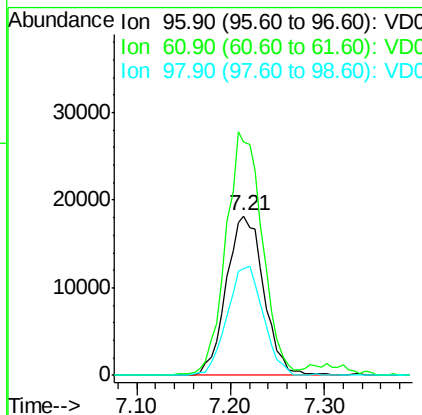
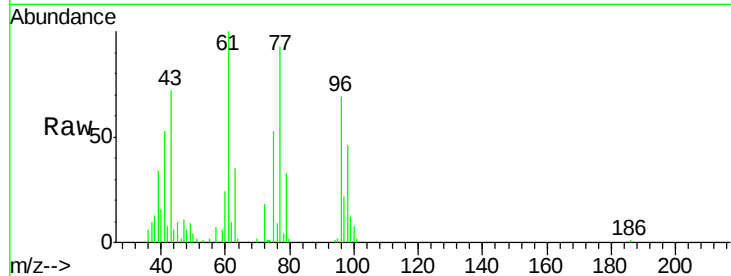
cis-1,2-Dichloroethene
 Concen: 10.752 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
96	100		
61	149.0	0.0	292.8
98	65.9	0.0	130.0

Manual Integrations
 APPROVED

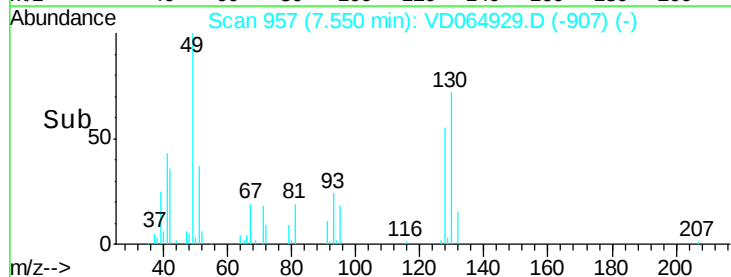
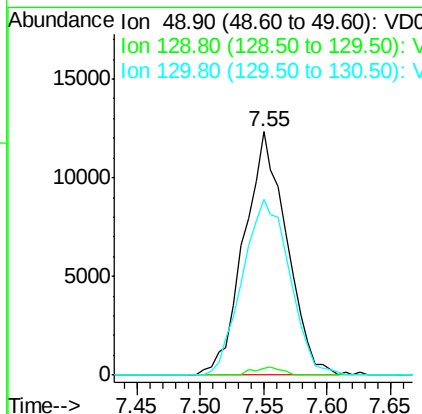
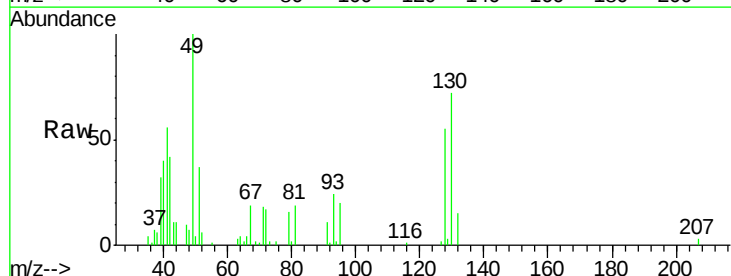
MMDadoda
 1/24/2020 4:01:46 PM

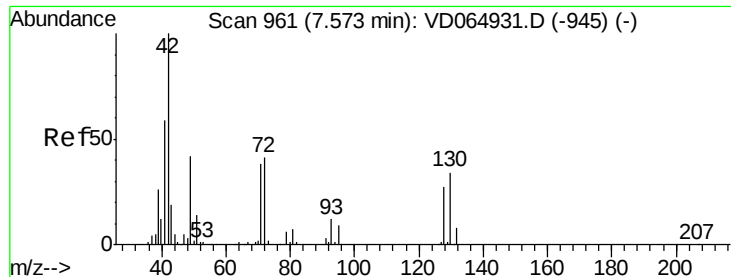


#28

Bromochloromethane
 Concen: 10.200 ug/l
 RT: 7.55 min Scan# 957
 Delta R.T. -0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.1	0.0	4.4
130	80.2	63.8	95.8





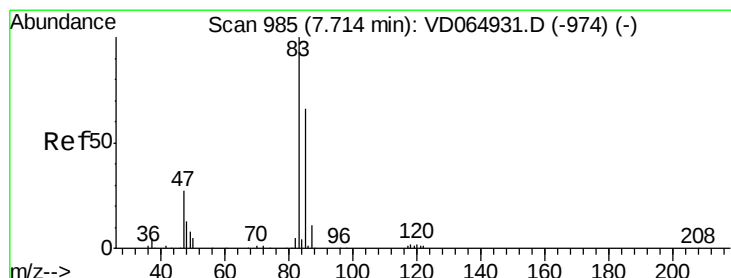
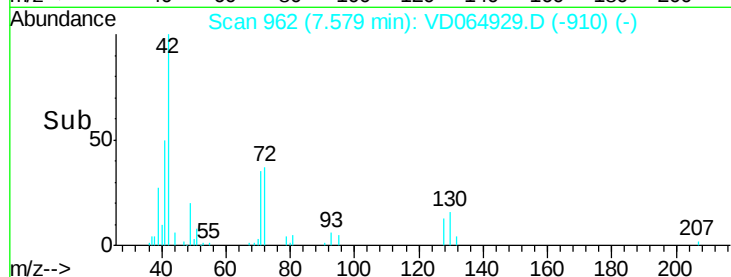
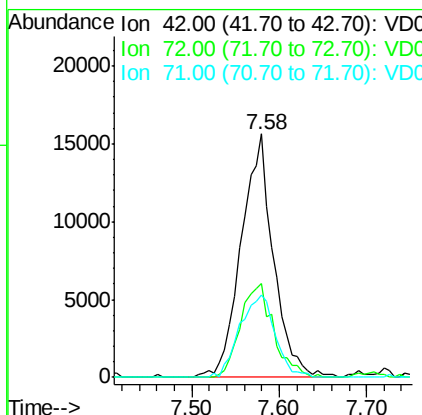
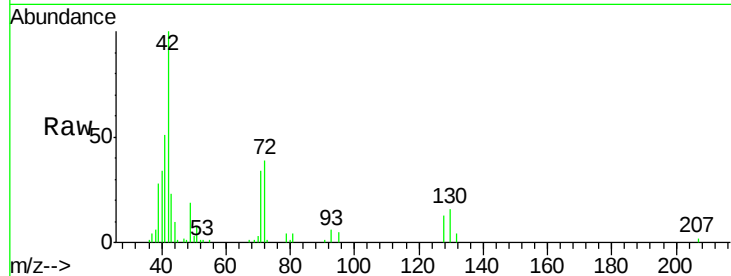
#29
Tetrahydrofuran
Concen: 59.350 ug/l
RT: 7.58 min Scan# 962
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	39.4	34.0	51.0
71	37.2	31.5	47.3

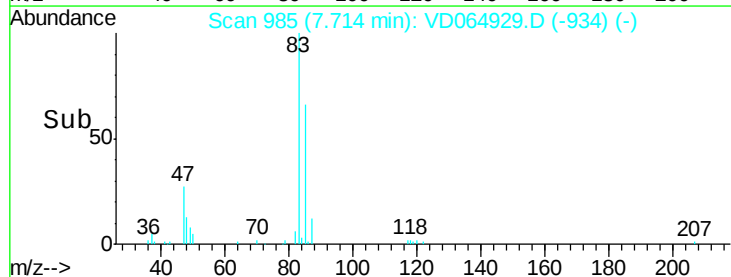
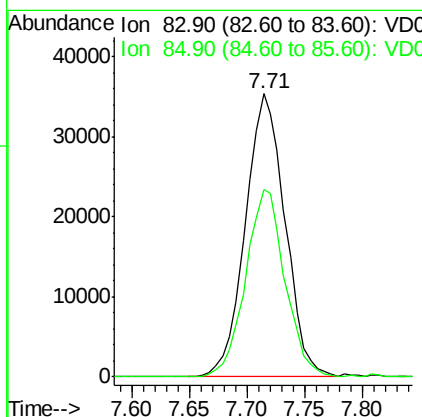
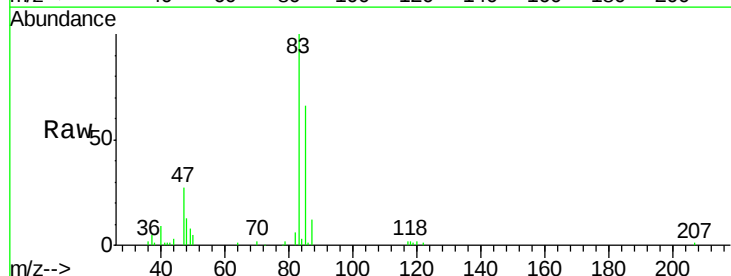
Manual Integrations
APPROVED

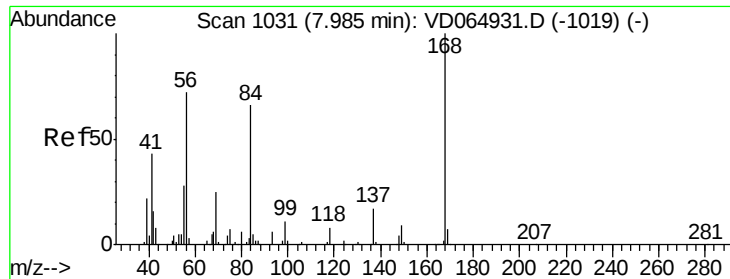
MMDadoda
1/24/2020 4:01:46 PM



#30
Chloroform
Concen: 11.295 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	52.4	78.6





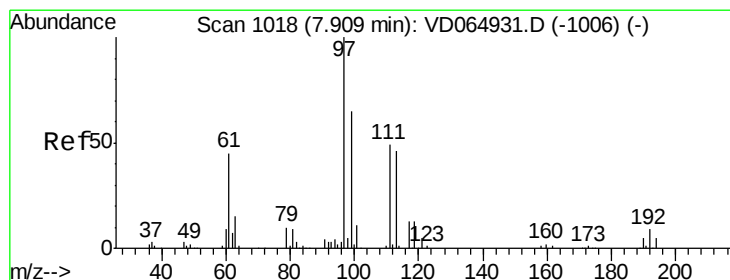
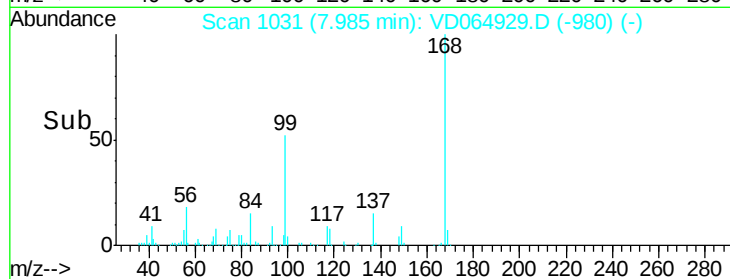
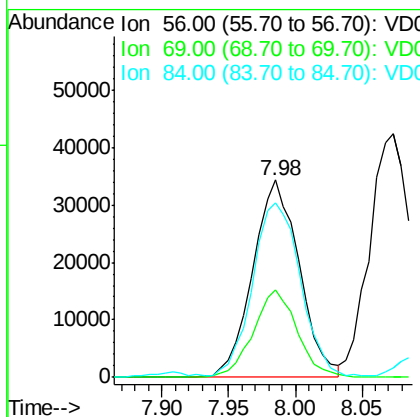
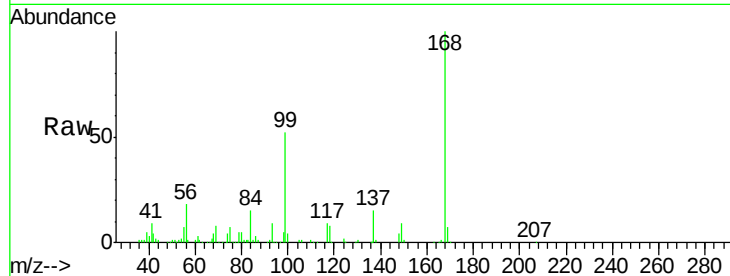
#31
Cyclohexane
Concen: 11.598 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampled :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
56	100		
69	44.6	27.9	41.9#
84	87.1	72.8	109.2

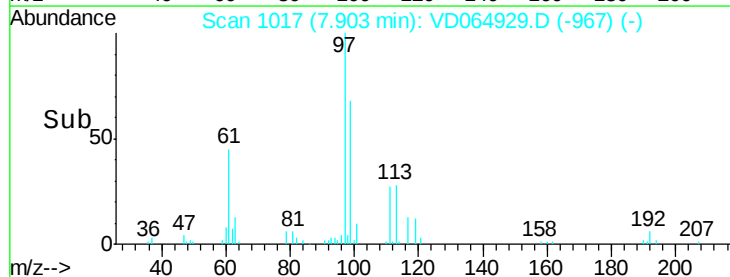
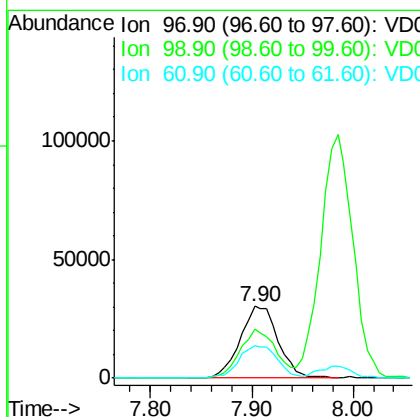
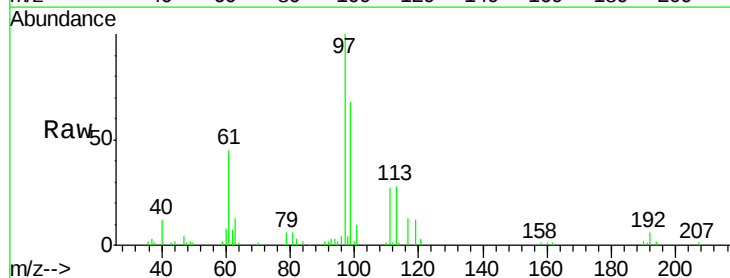
Manual Integrations
APPROVED

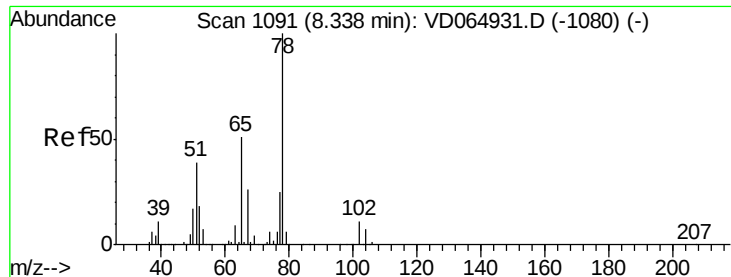
MMDadoda
1/24/2020 4:01:46 PM



#32
1,1,1-Trichloroethane
Concen: 11.170 ug/l
RT: 7.90 min Scan# 1017
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.3	50.6	76.0
61	45.9	35.7	53.5





#33

1,2-Dichloroethane-d4

Concen: 10.253 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 65 Resp: 40086

Ion Ratio Lower Upper

65 100

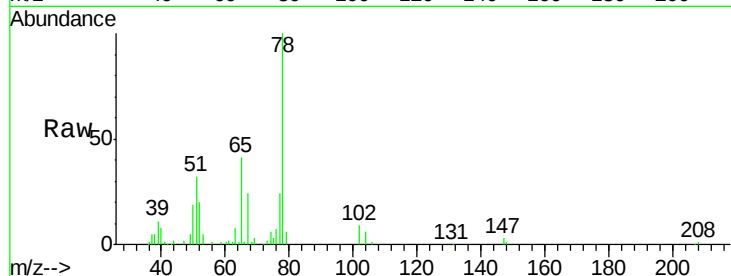
67 53.0 0.0 103.6

Manual Integrations

APPROVED

MMDadoda

1/24/2020 4:01:46 PM



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

20000

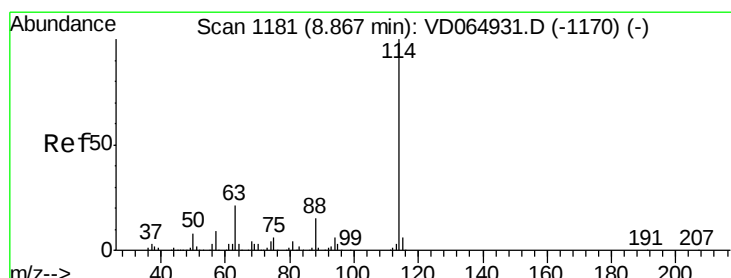
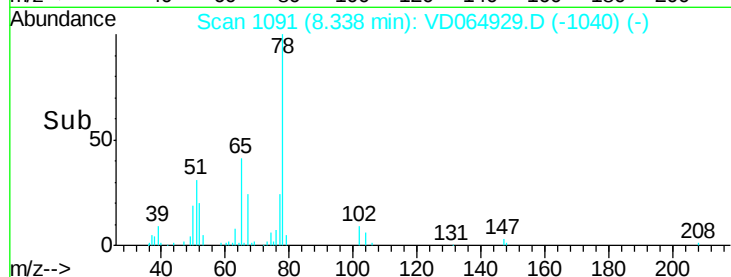
15000

10000

5000

0

Time--> 8.25 8.30 8.35 8.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

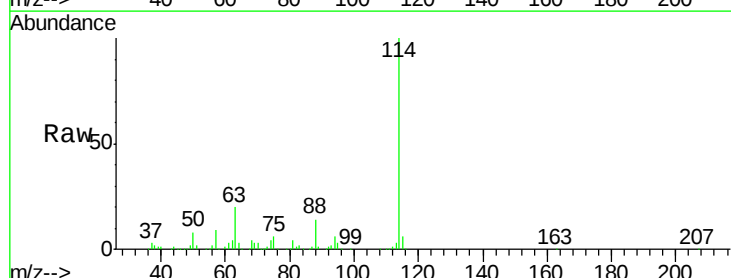
Tgt Ion: 114 Resp: 647868

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.0

88 13.8 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.87

400000

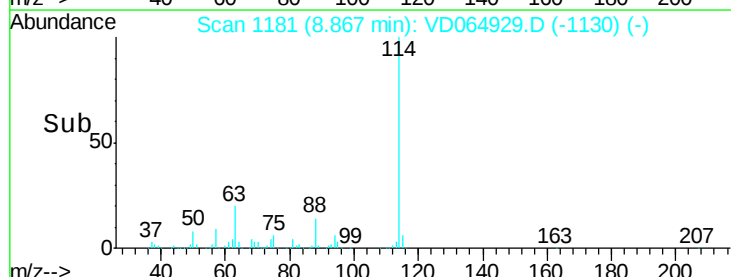
300000

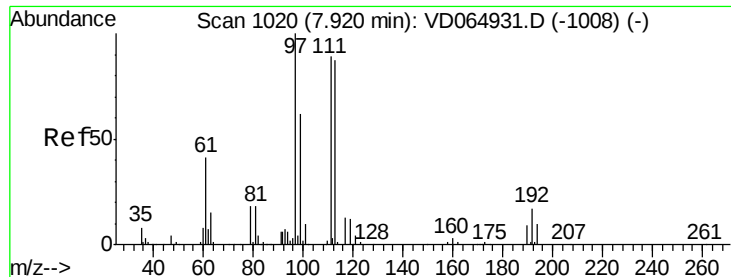
200000

100000

0

Time--> 8.80 8.90 9.00





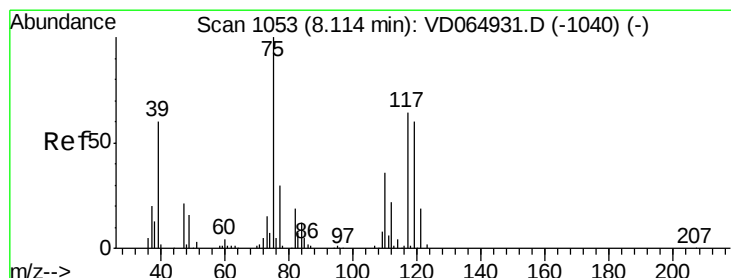
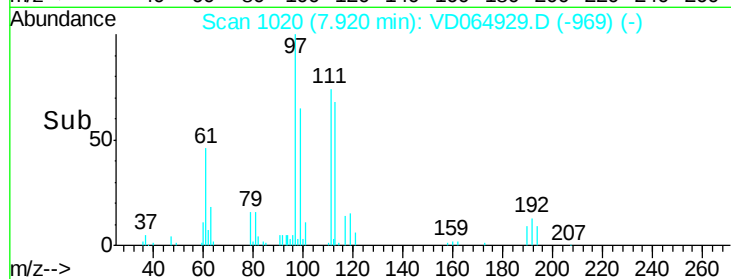
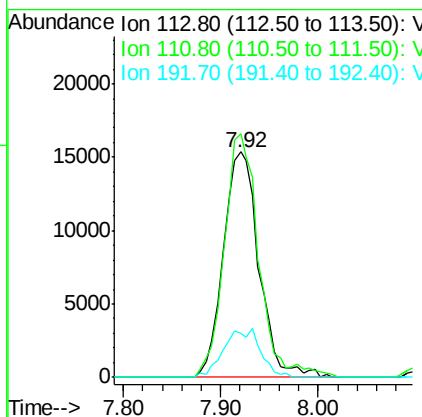
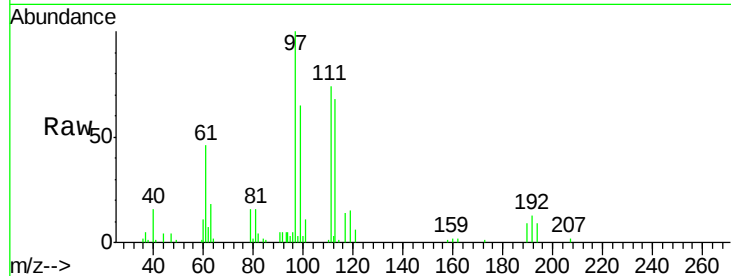
#35
Dibromofluoromethane
Concen: 9.726 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Resp	Lower	Upper
113	100	38928		
111	104.4	82.4	123.6	
192	22.1	16.9	25.3	

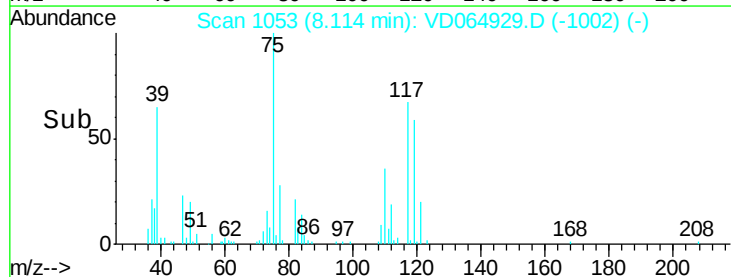
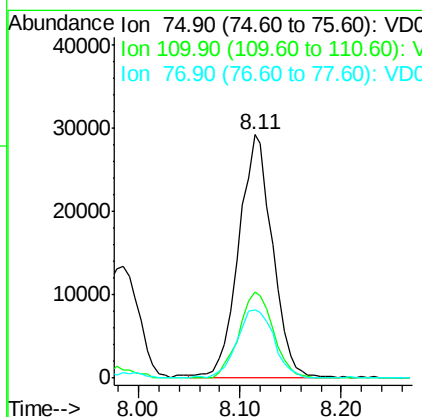
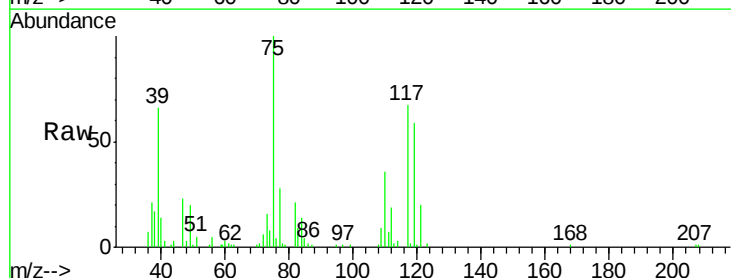
Manual Integrations
APPROVED

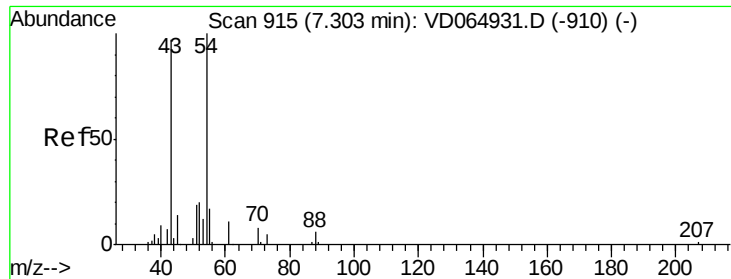
MMDadoda
1/24/2020 4:01:46 PM



#36
1,1-Dichloropropene
Concen: 10.844 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	67637		
110	35.6	17.3	52.0	
77	30.8	24.7	37.1	





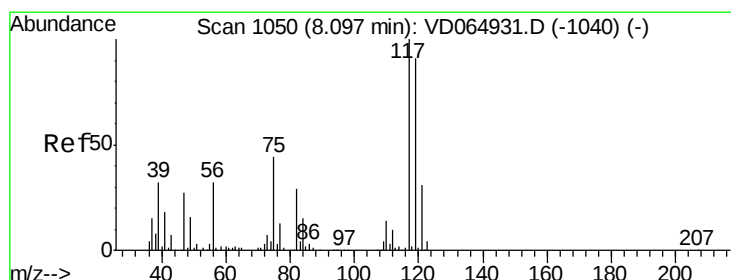
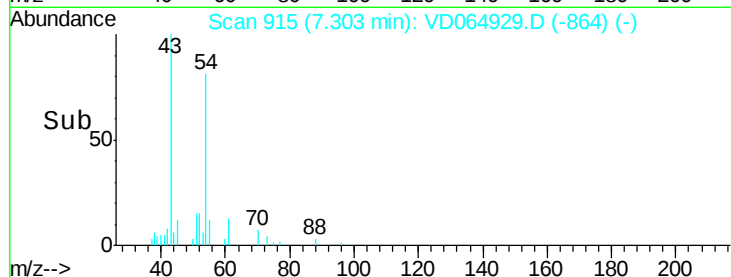
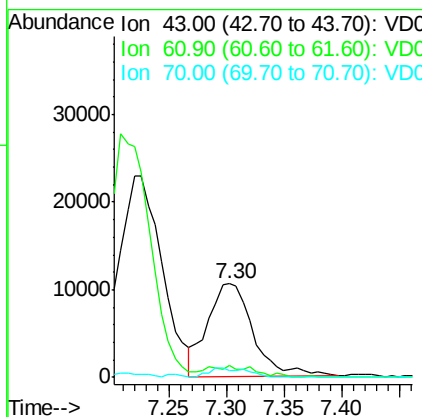
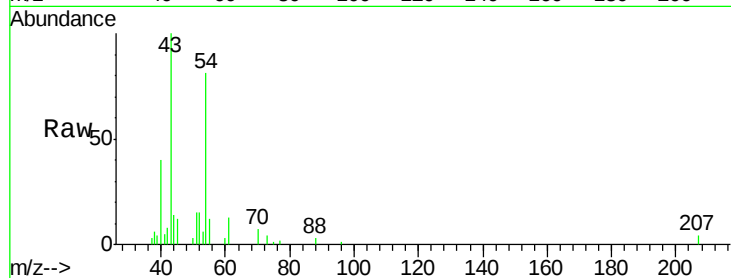
#37
Ethyl Acetate
Concen: 11.753 ug/l
RT: 7.30 min Scan# 915
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	8.5	7.5	11.3

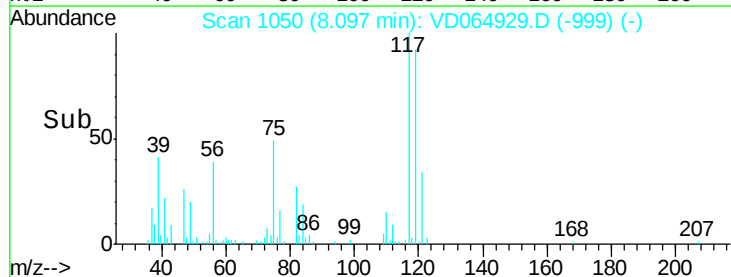
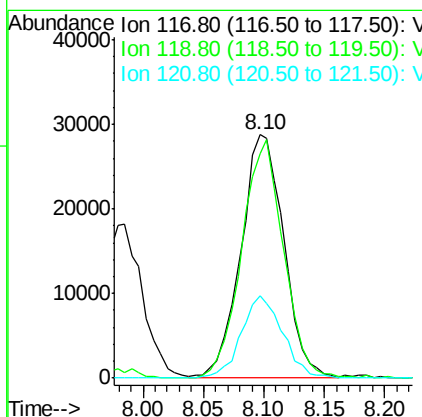
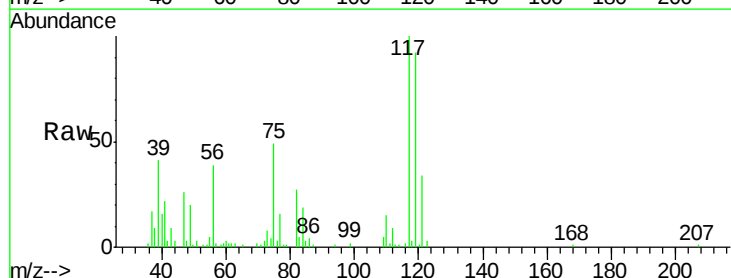
Manual Integrations
APPROVED

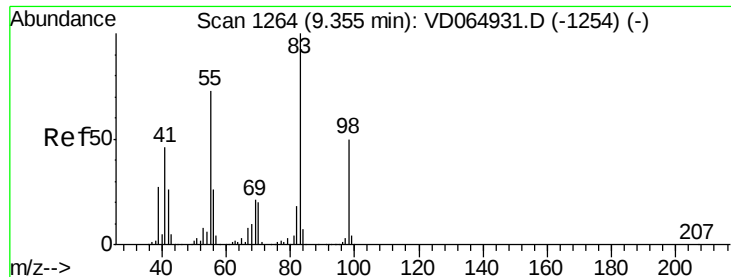
MMDadoda
1/24/2020 4:01:46 PM



#38
Carbon Tetrachloride
Concen: 10.768 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.3	73.2	109.8
121	33.8	24.4	36.6





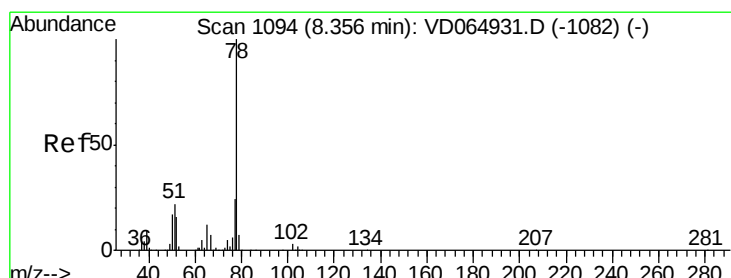
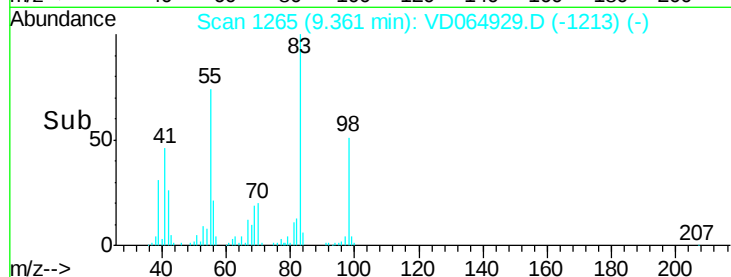
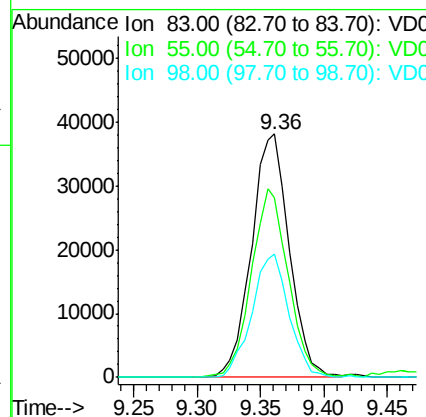
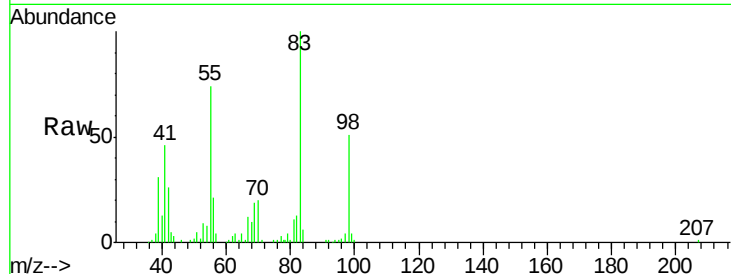
#39
Methvlcvclohexane
Concen: 10.563 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.7	58.7	88.1
98	50.5	40.2	60.2

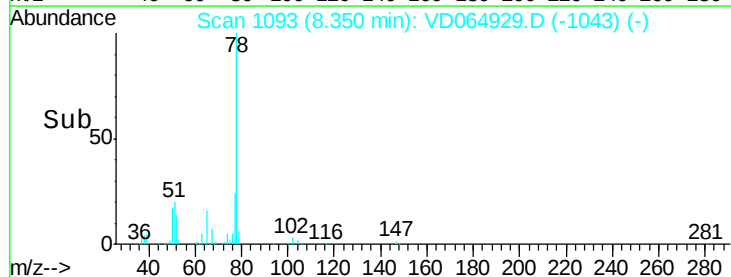
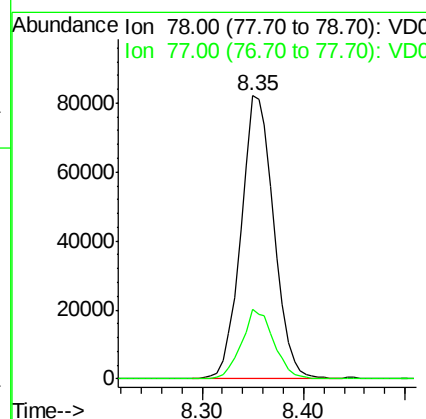
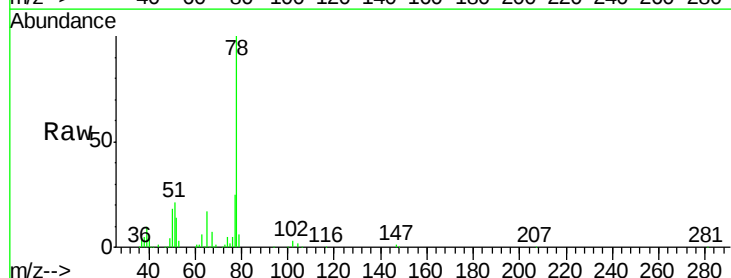
Manual Integrations
APPROVED

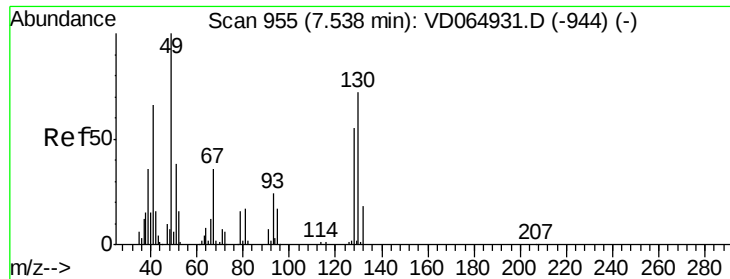
MMDadoda
1/24/2020 4:01:46 PM



#40
Benzene
Concen: 10.768 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.2	28.8





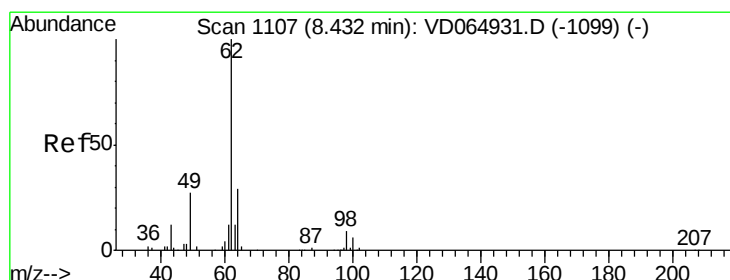
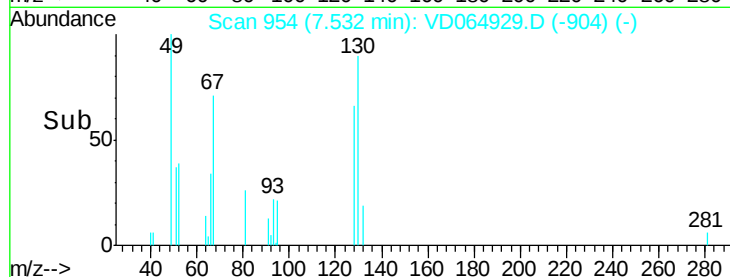
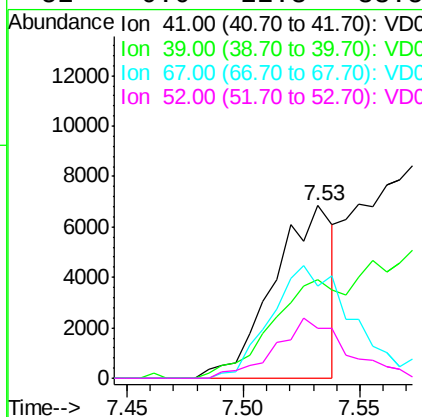
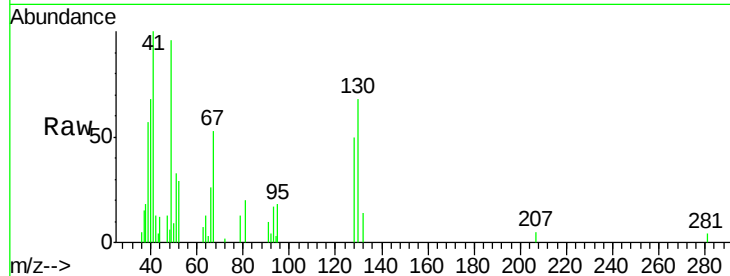
#41
Methacrylonitrile
Concen: 8.556 ug/l m
RT: 7.53 min Scan# 954
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	41	Resp	12198
Ion	Ratio	Lower	Upper
41	100		
39	105.4	49.3	73.9#
67	0.0	51.0	76.6#
52	0.0	22.3	33.5#

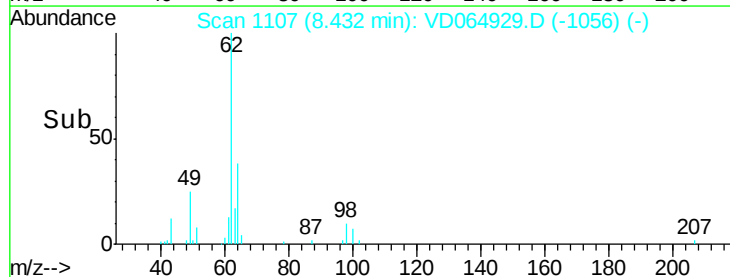
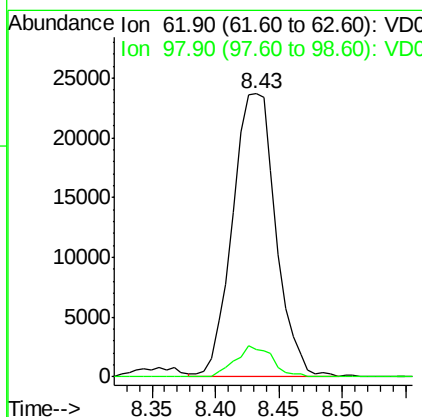
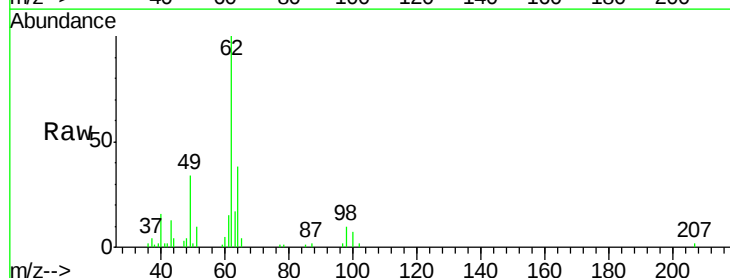
Manual Integrations
APPROVED

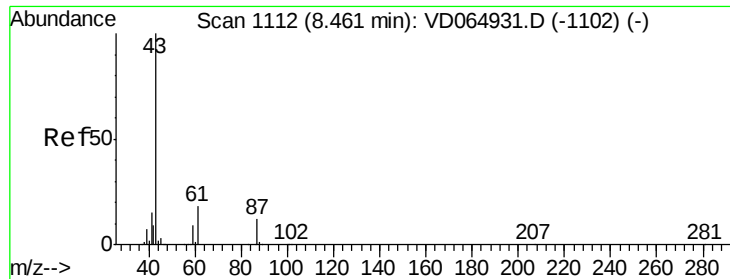
MMDadoda
1/24/2020 4:01:46 PM



#42
1,2-Dichloroethane
Concen: 11.389 ug/l
RT: 8.43 min Scan# 1107
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	62	Resp	56306
Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	17.8





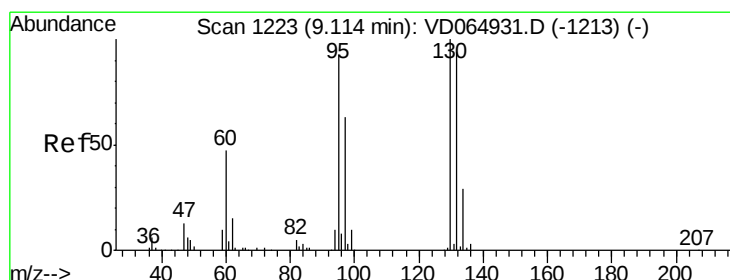
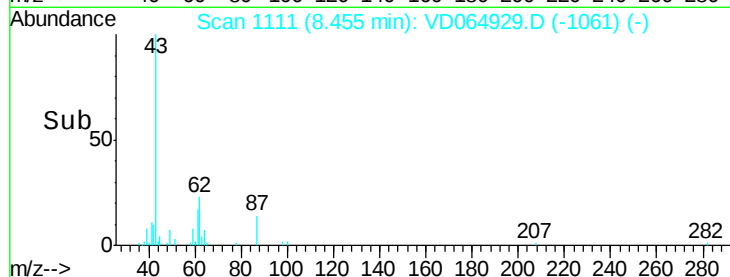
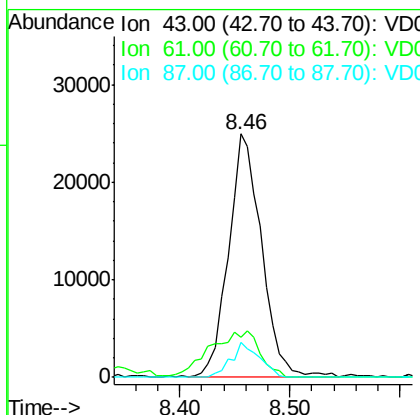
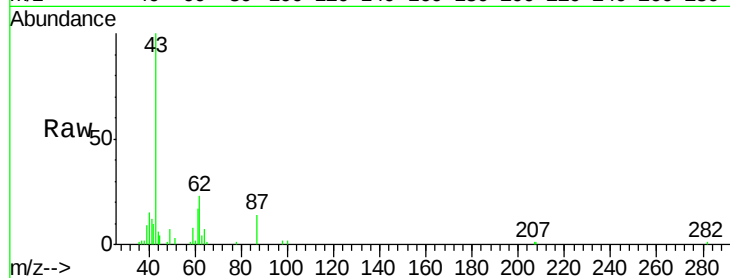
#43
Isopropyl Acetate
Concen: 10.813 ug/l
RT: 8.46 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
43	100		
61	28.4	23.8	35.6
87	12.2	10.3	15.5

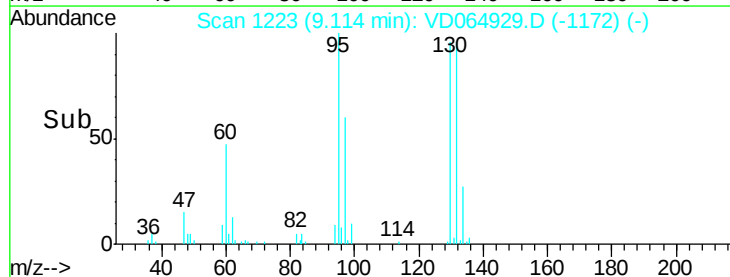
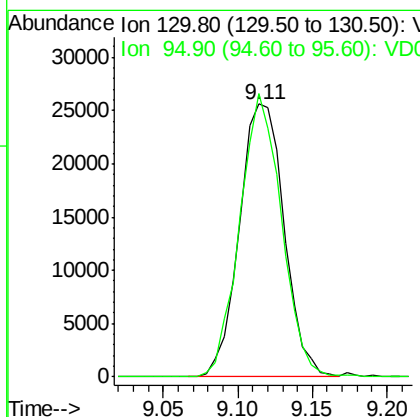
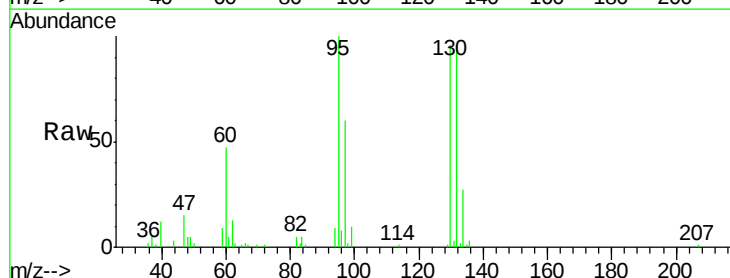
Manual Integrations
APPROVED

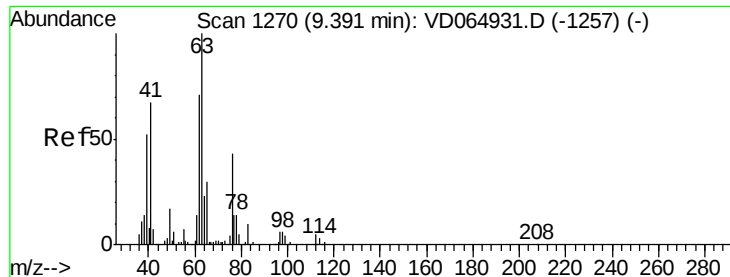
MMDadoda
1/24/2020 4:01:46 PM



#44
Trichloroethene
Concen: 10.718 ug/l
RT: 9.11 min Scan# 1223
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
130	100		
95	103.8	0.0	185.8





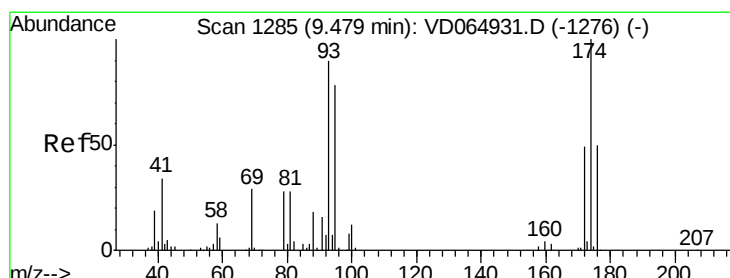
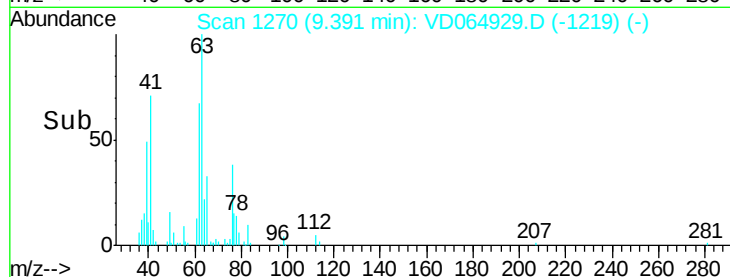
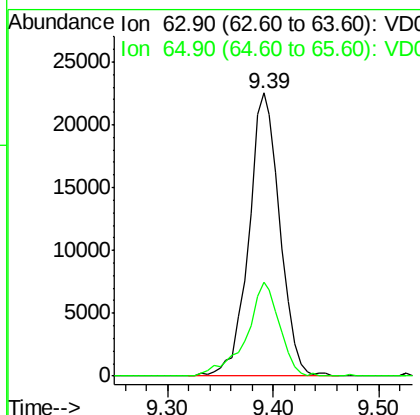
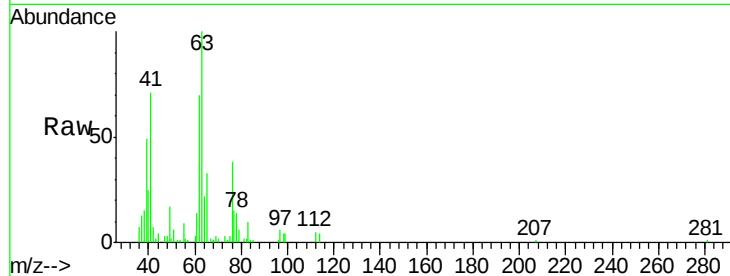
#45
 1,2-Dichloropropane
 Concen: 11.323 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.0	24.3	36.5

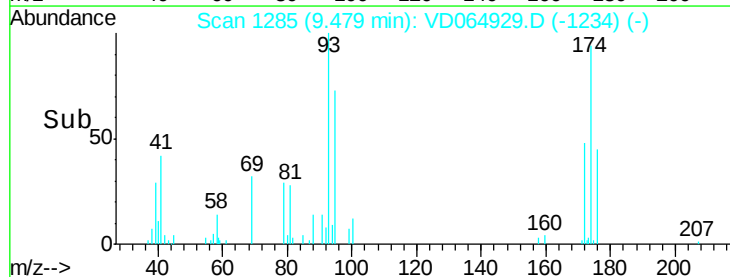
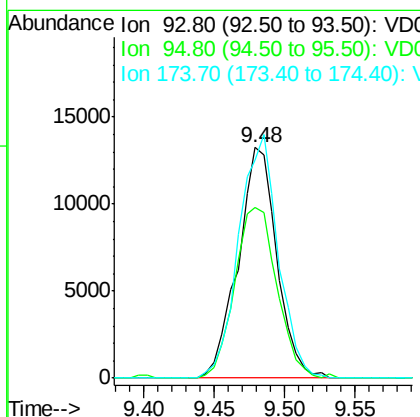
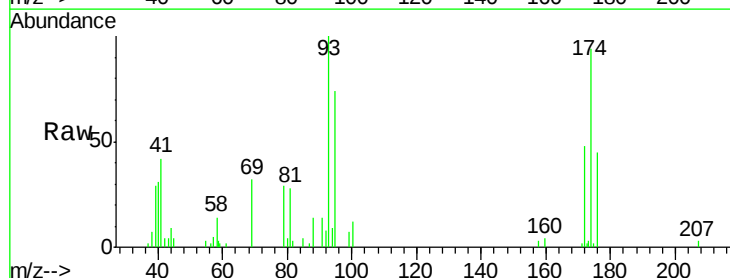
Manual Integrations
 APPROVED

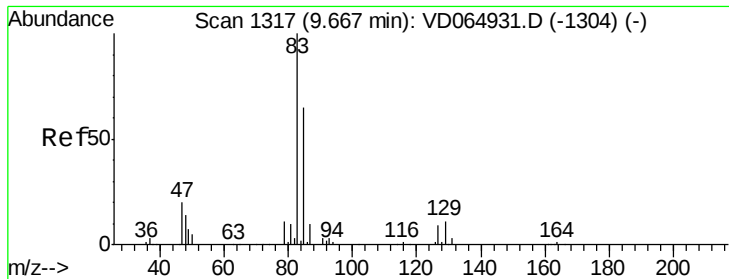
MMDadoda
 1/24/2020 4:01:46 PM



#46
 Dibromomethane
 Concen: 11.354 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
93	100		
95	79.9	67.5	101.3
174	106.8	88.4	132.6





#47

Bromodichloromethane

Concen: 11.041 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

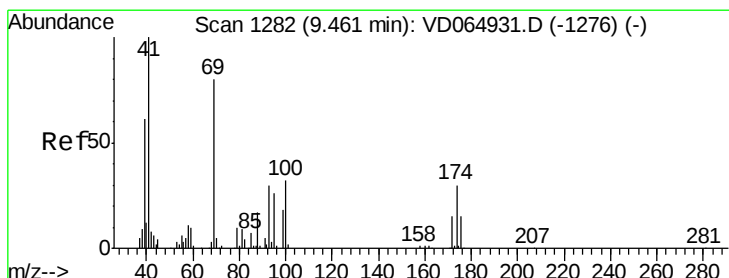
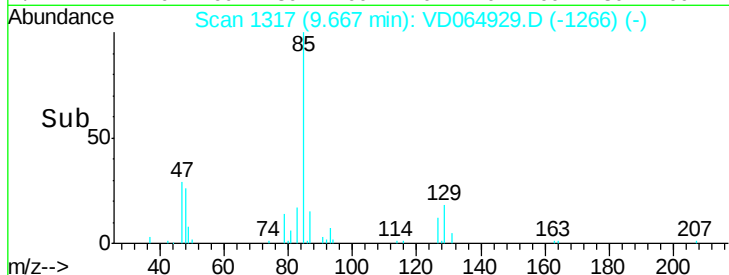
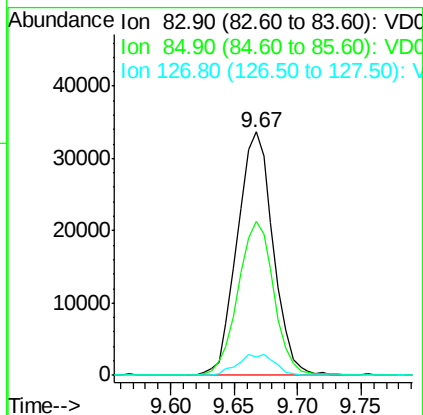
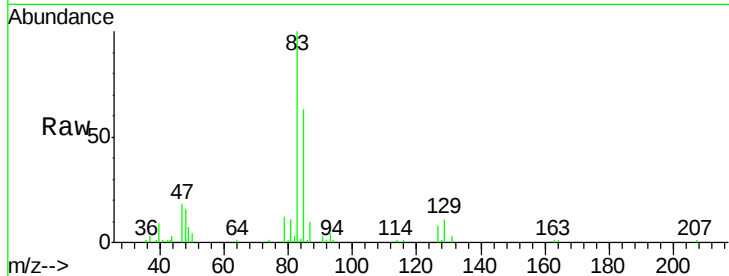
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	66106
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.0	78.0
127	7.7	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



#48

Methyl methacrylate

Concen: 10.031 ug/l

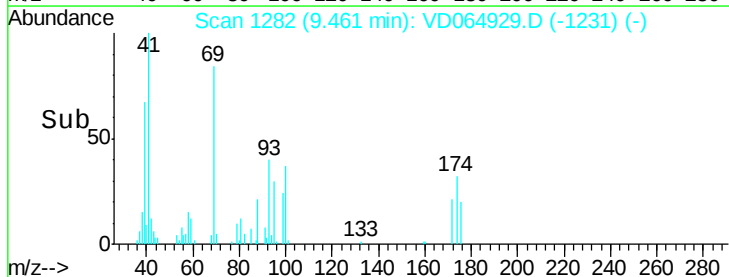
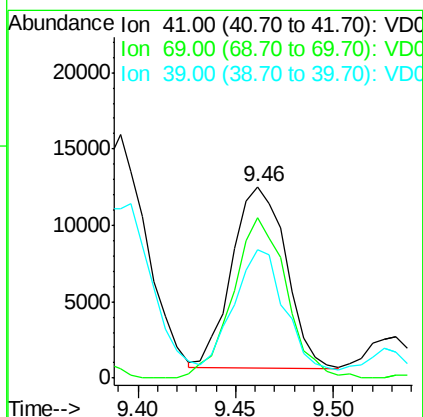
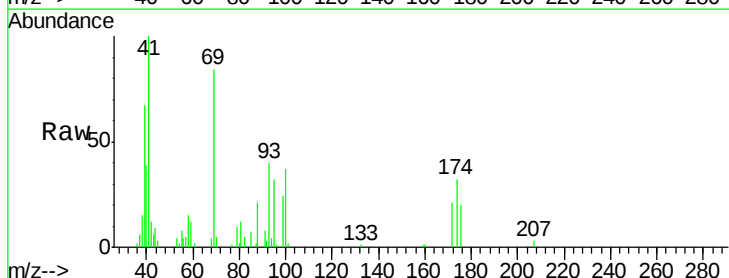
RT: 9.46 min Scan# 1282

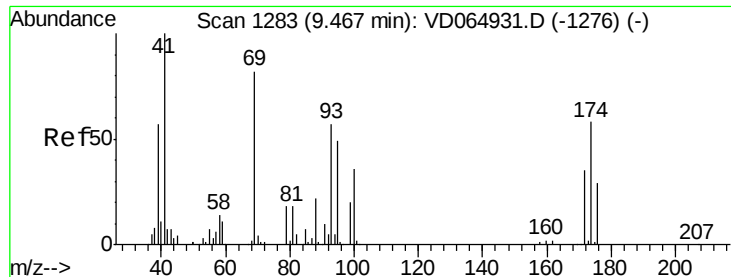
Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Tgt Ion:	41	Resp:	22755
Ion	Ratio	Lower	Upper
41	100		
69	87.8	65.8	98.8
39	61.6	49.4	74.0





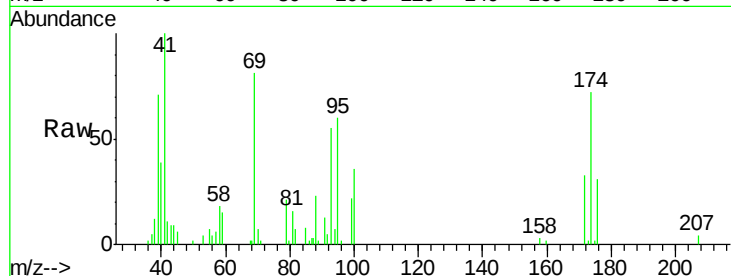
#49
1,4-Dioxane
Concen: 195.311 ug/l
RT: 9.47 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
88	100		
43	40.0	26.2	39.4#
58	83.0	50.3	75.5#

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



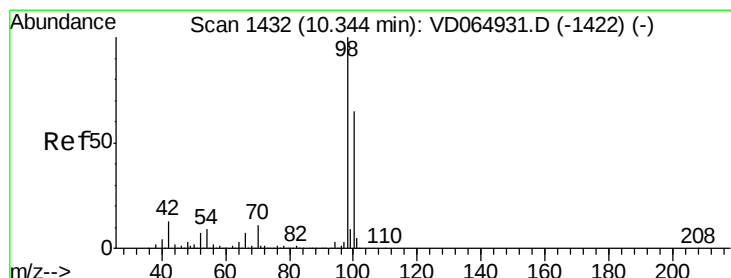
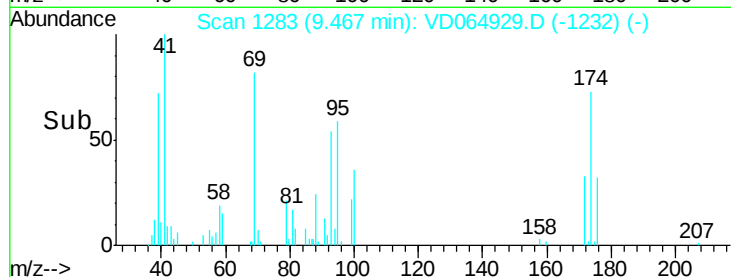
Abundance

Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

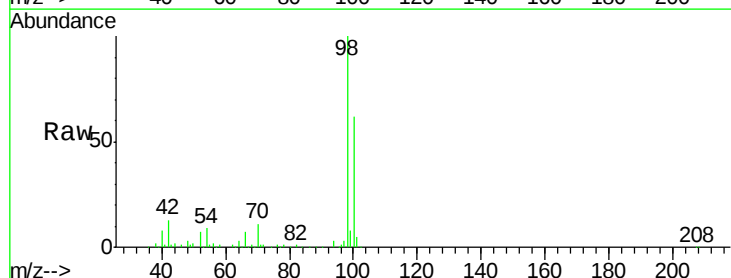
Ion 58.00 (57.70 to 58.70): VDC

Time-->



#50
Toluene-d8
Concen: 9.297 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.3	78.5

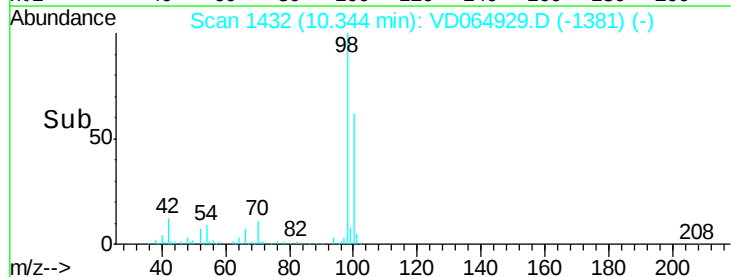


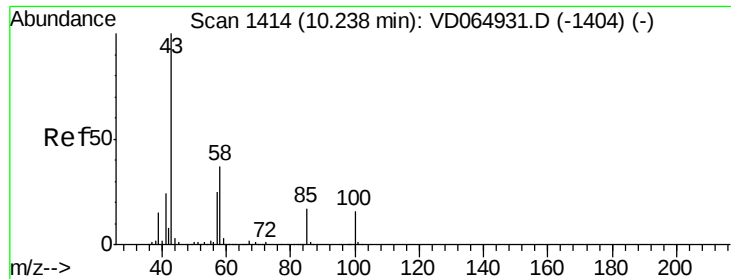
Abundance

Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

Time-->





#51

4-Methyl-2-Pentanone

Concen: 53.113 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 43 Resp: 128155

Ion Ratio Lower Upper

43 100

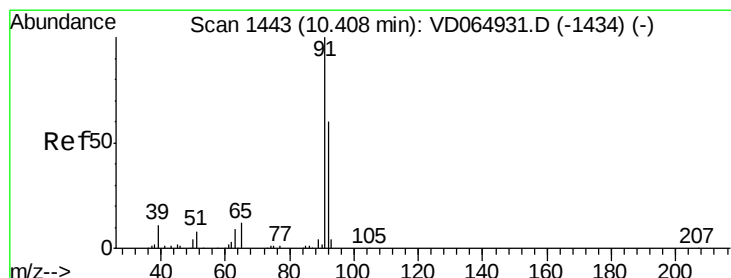
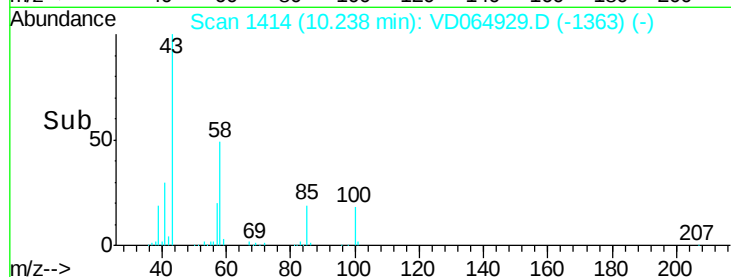
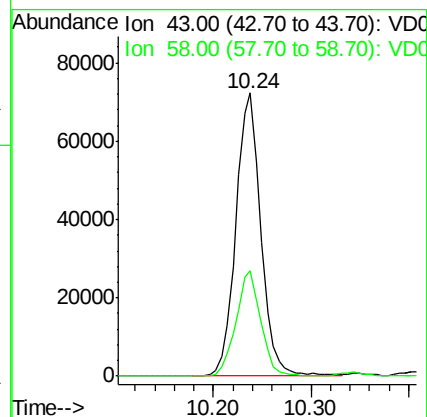
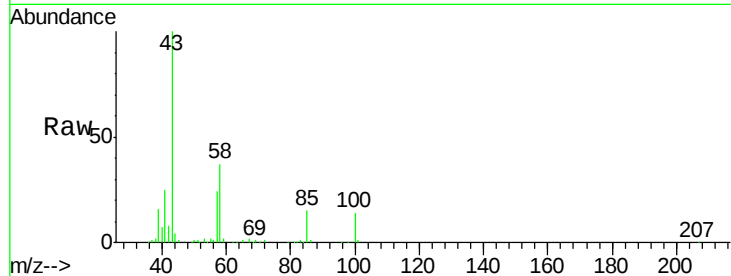
58 36.6 30.4 45.6

Manual Integrations

APPROVED

MMDadoda

1/24/2020 4:01:46 PM



#52

Toluene

Concen: 10.306 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD064929.D

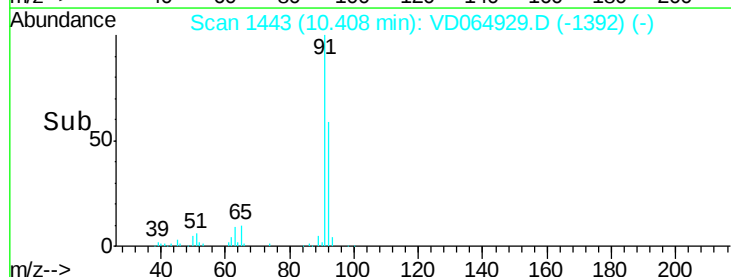
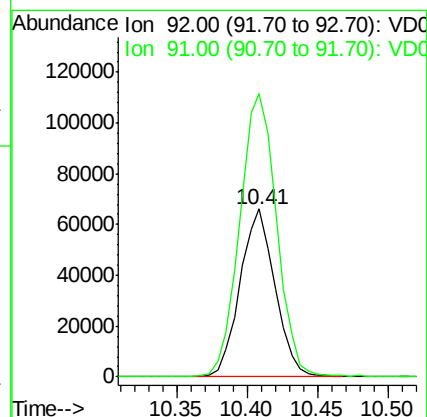
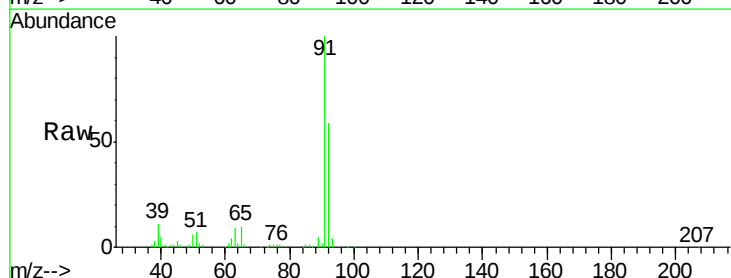
Acq: 23 Jan 2020 11:26

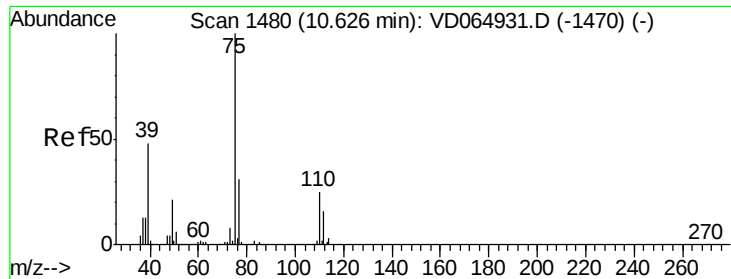
Tgt Ion: 92 Resp: 114728

Ion Ratio Lower Upper

92 100

91 177.5 136.8 205.2





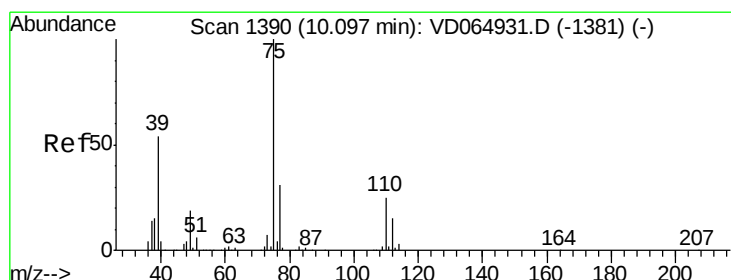
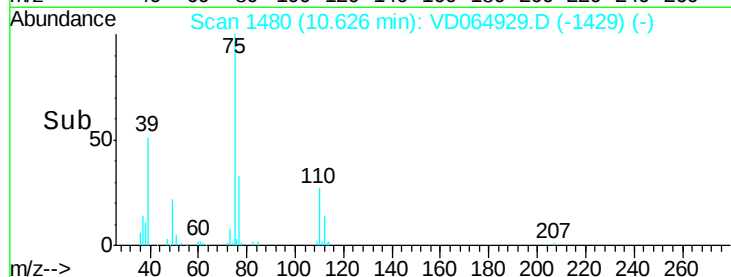
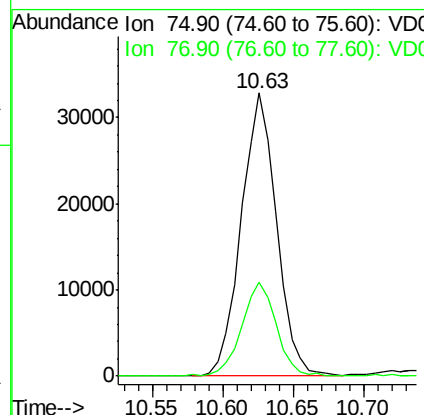
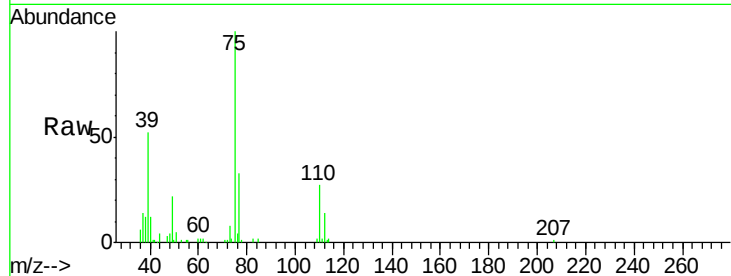
#53
 t-1,3-Dichloropropene
 Concen: 10.246 ug/l
 RT: 10.63 min Scan# 1480
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.0	37.6

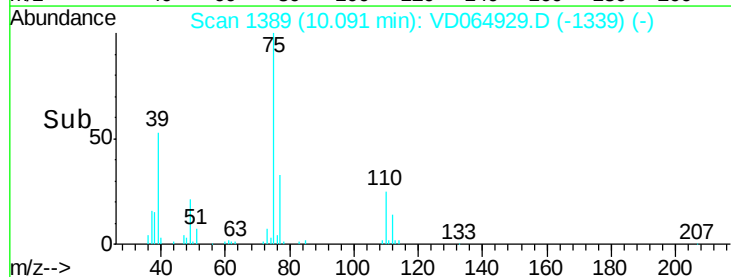
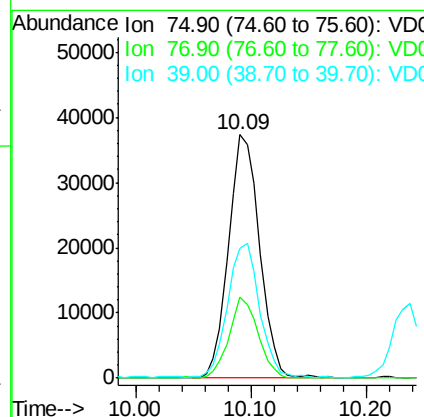
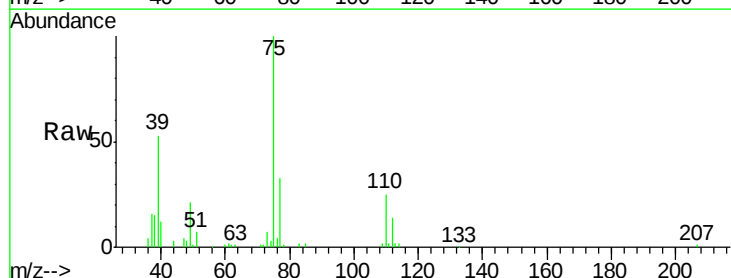
Manual Integrations
 APPROVED

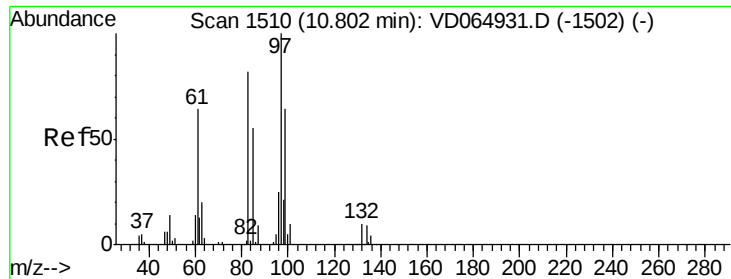
MMDadoda
 1/24/2020 4:01:46 PM



#54
 cis-1,3-Dichloropropene
 Concen: 10.548 ug/l
 RT: 10.09 min Scan# 1389
 Delta R.T. -0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.1	37.7
39	52.6	43.0	64.6





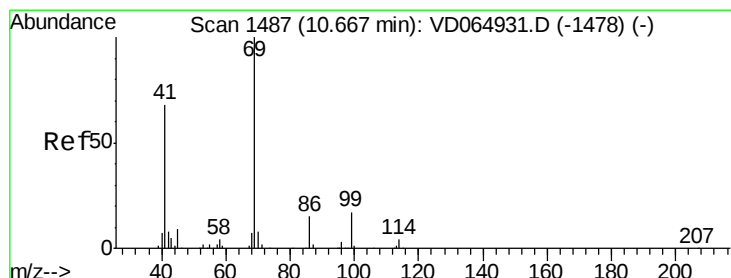
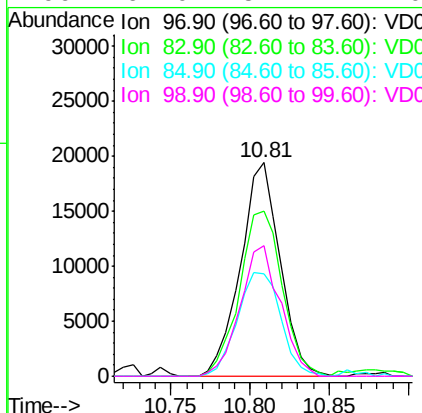
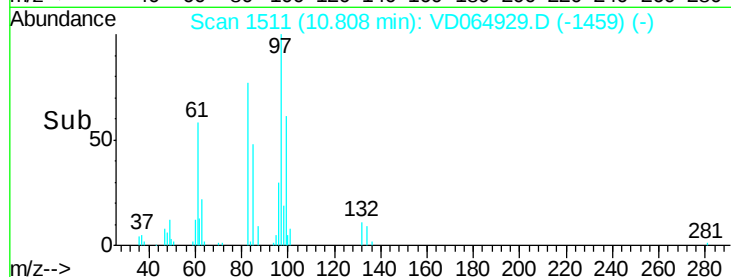
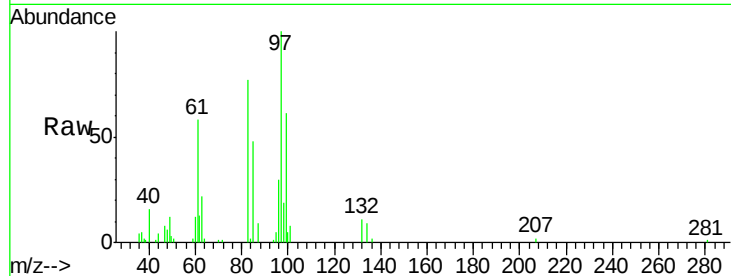
#55
 1,1,2-Trichloroethane
 Concen: 11.120 ug/l
 RT: 10.81 min Scan# 1511
 Delta R.T. 0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion:	97	Resp:	33877
Ion	Ratio	Lower	Upper
97	100		
83	77.2	66.0	99.0
85	47.8	44.4	66.6
99	61.0	51.4	77.0

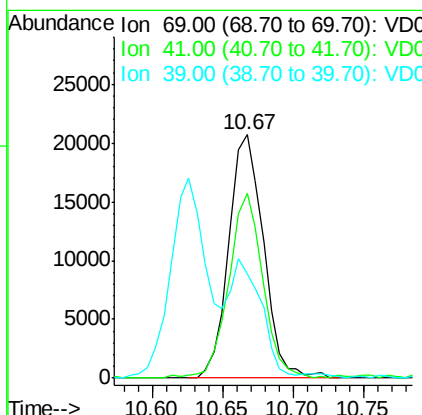
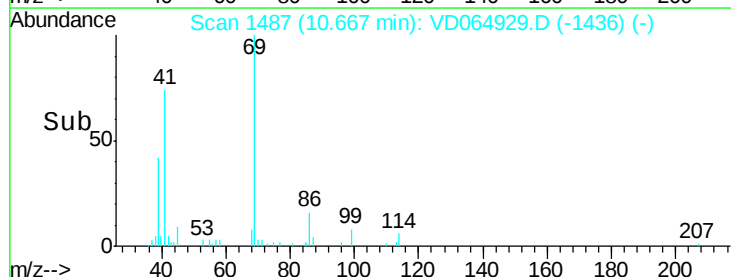
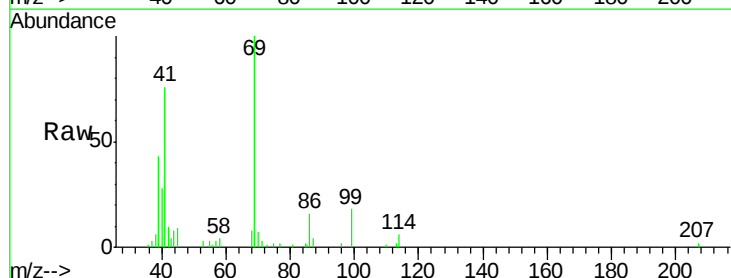
Manual Integrations
 APPROVED

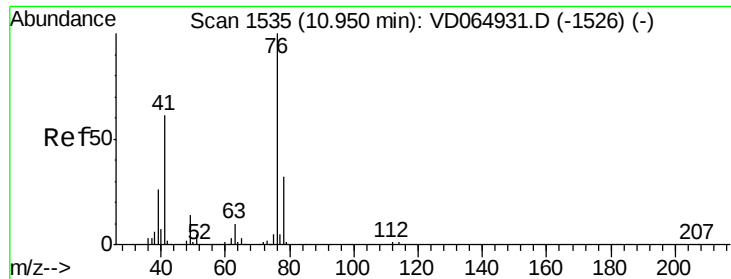
MMDadoda
 1/24/2020 4:01:46 PM



#56
 Ethyl methacrylate
 Concen: 9.364 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion:	69	Resp:	35540
Ion	Ratio	Lower	Upper
69	100		
41	74.6	56.4	84.6
39	41.8	30.6	46.0





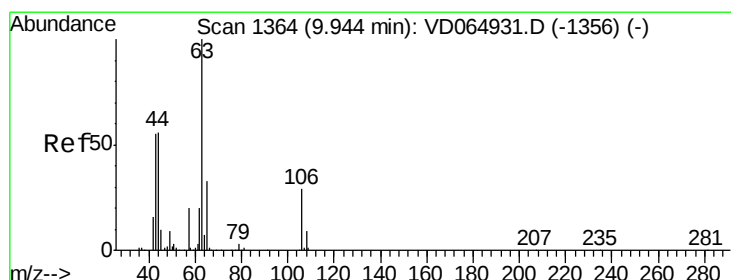
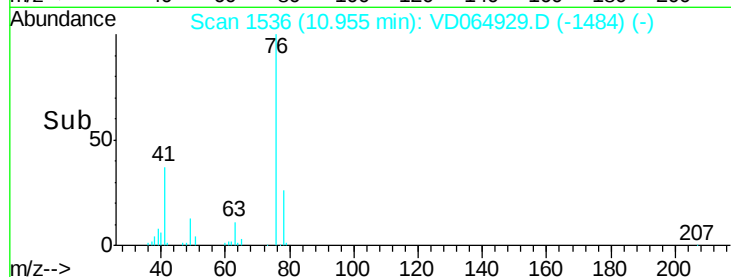
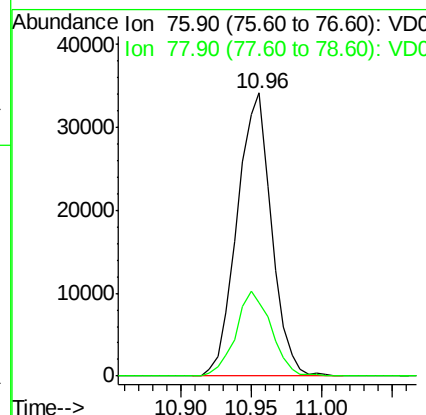
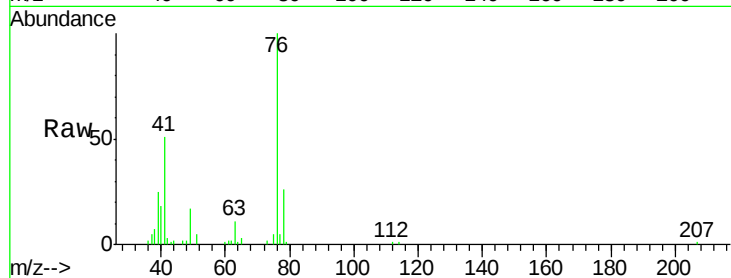
#57
 1,3-Dichloropropane
 Concen: 11.059 ug/l
 RT: 10.96 min Scan# 1536
 Delta R.T. 0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
76	100		
78	31.0	25.7	38.5

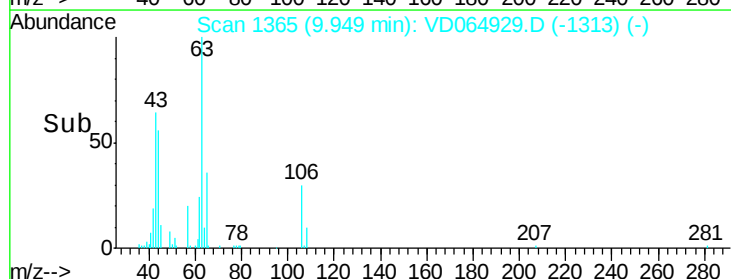
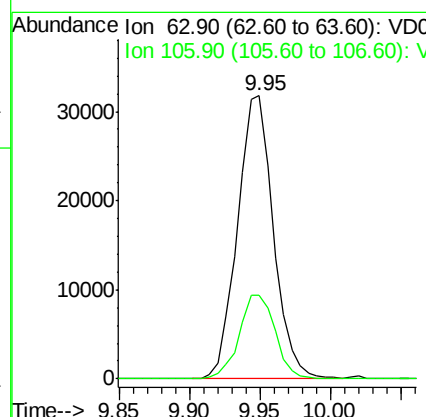
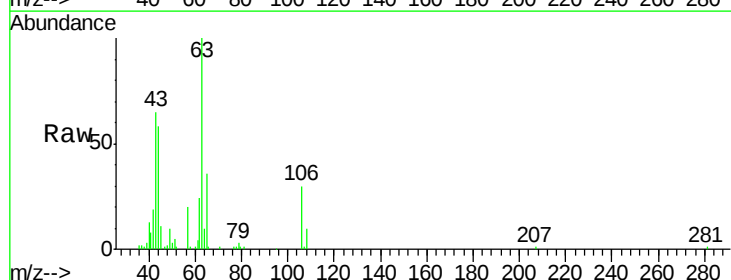
Manual Integrations
 APPROVED

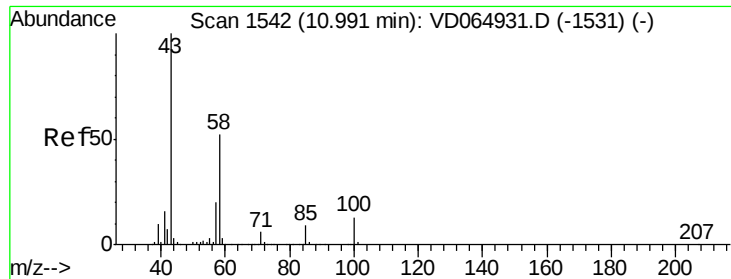
MMDadoda
 1/24/2020 4:01:46 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 40.135 ug/l
 RT: 9.95 min Scan# 1365
 Delta R.T. 0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
63	100		
106	29.9	23.0	34.4





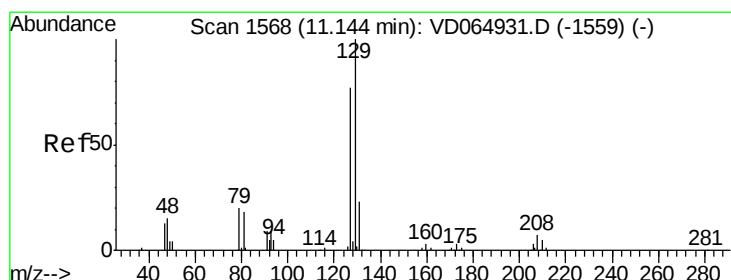
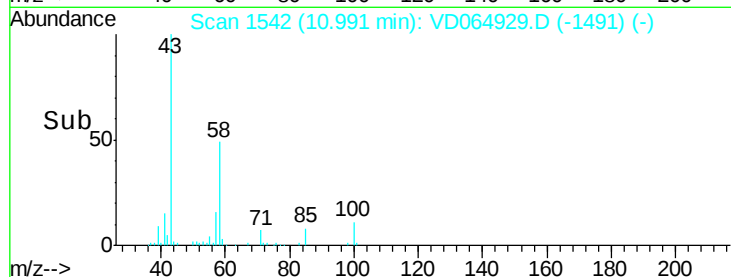
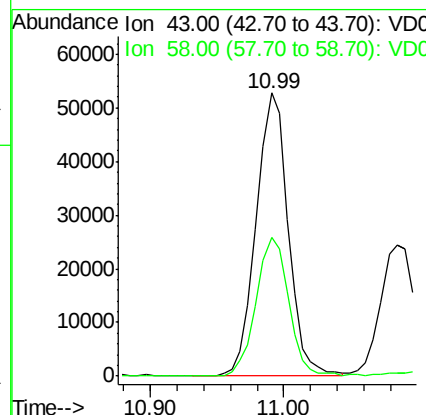
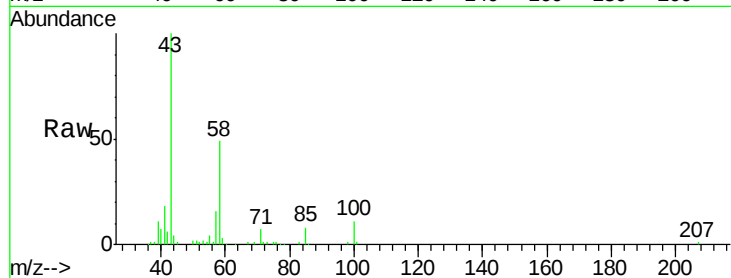
#59
2-Hexanone
Concen: 53.324 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	43	Resp	87539
Ion Ratio	100	Lower	Upper
43	100		
58	49.6	26.5	79.4

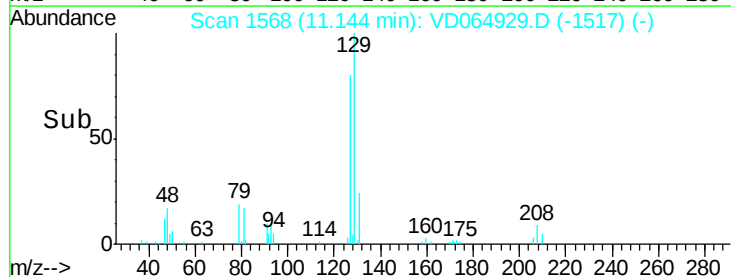
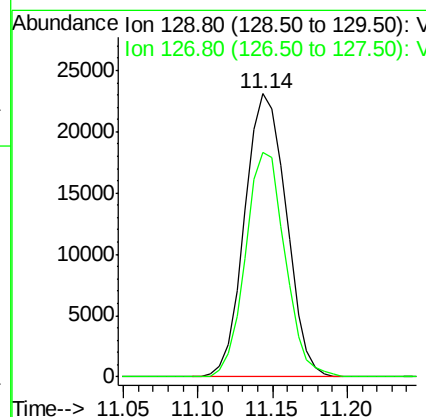
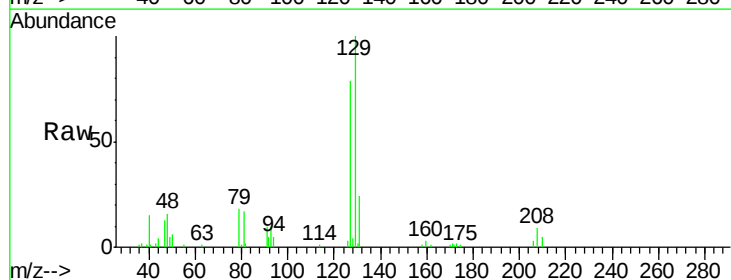
Manual Integrations
APPROVED

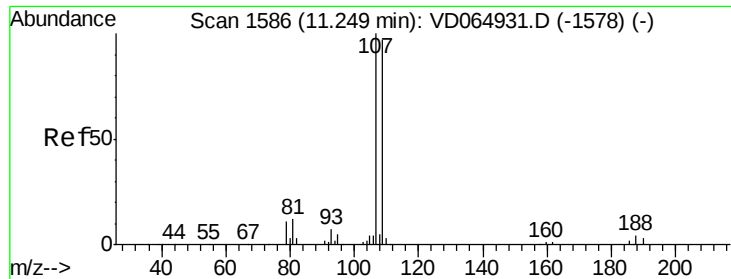
MMDadoda
1/24/2020 4:01:46 PM



#60
Dibromochloromethane
Concen: 10.641 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	129	Resp	44532	
Ion Ratio <th>129</th> <th>100</th> <th>Lower</th> <th>Upper</th>	129	100	Lower	Upper
129	100			
127	75.6	38.2	114.6	





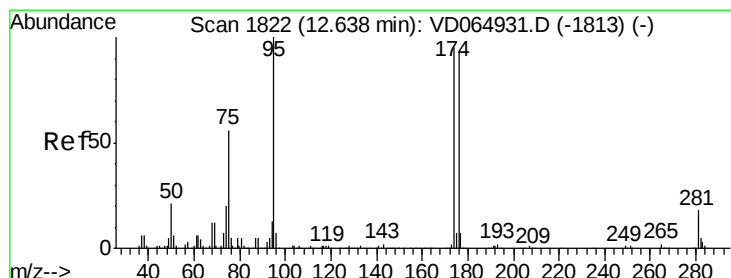
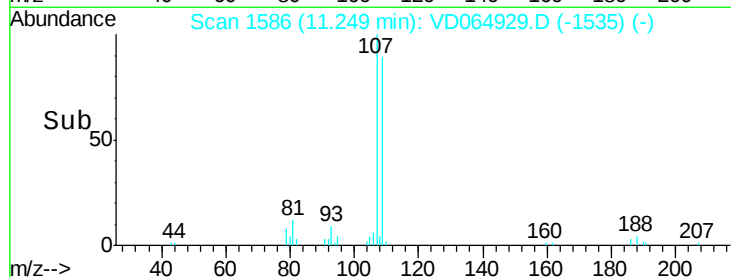
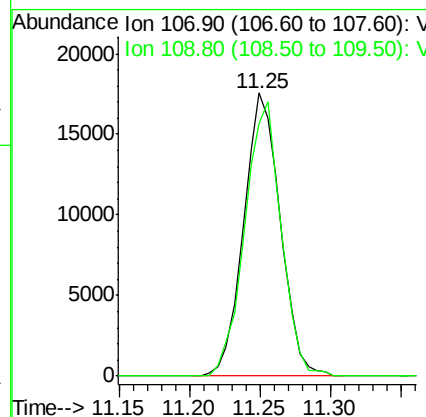
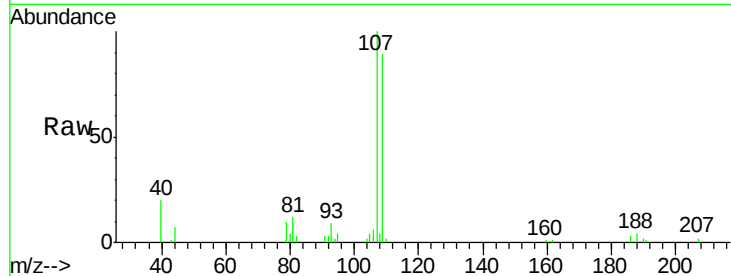
#61
 1,2-Dibromoethane
 Concen: 10.672 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion: 107 Resp: 31885
 Ion Ratio Lower Upper
 107 100
 109 96.1 77.1 115.7

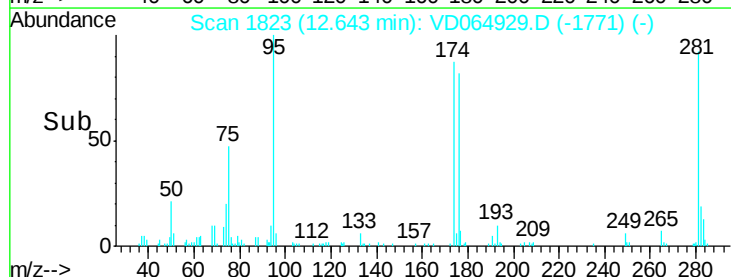
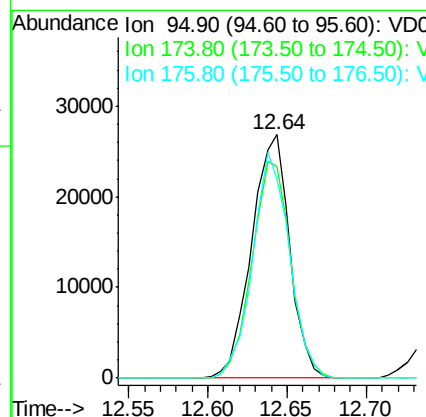
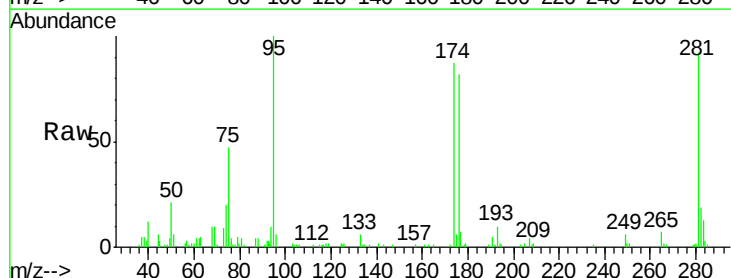
Manual Integrations
 APPROVED

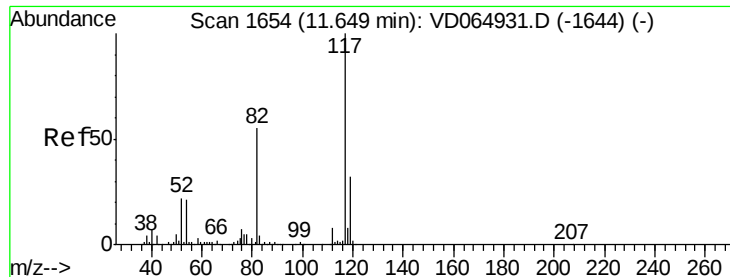
MMDadoda
 1/24/2020 4:01:46 PM



#62
 4-Bromofluorobenzene
 Concen: 9.306 ug/l
 RT: 12.64 min Scan# 1823
 Delta R.T. 0.01 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion: 95 Resp: 44866
 Ion Ratio Lower Upper
 95 100
 174 90.2 0.0 186.8
 176 89.5 0.0 183.4





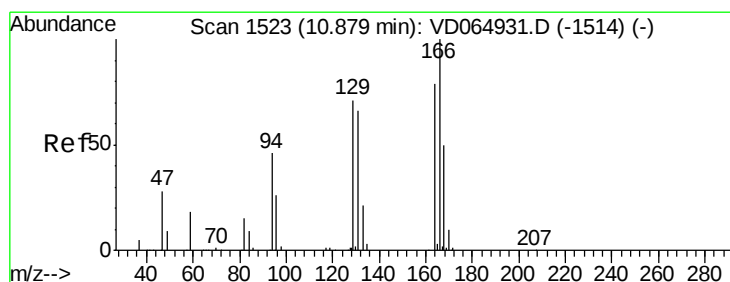
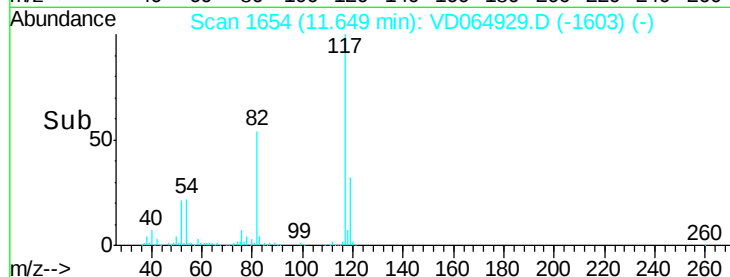
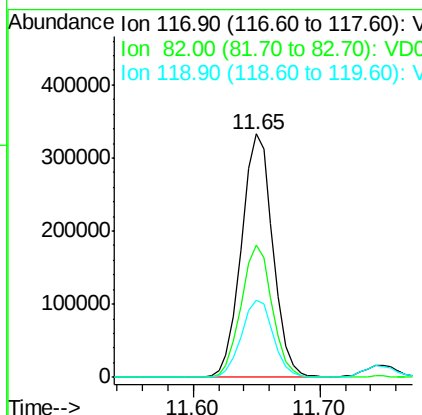
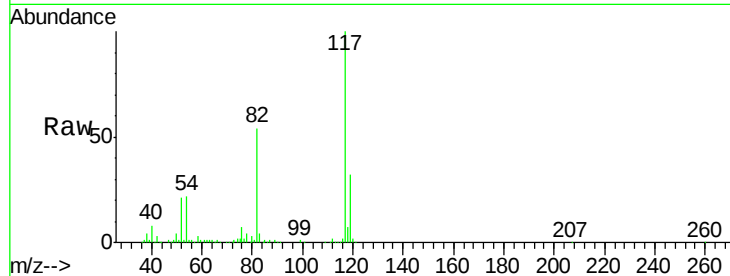
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.6	65.4
119	31.6	25.2	37.8

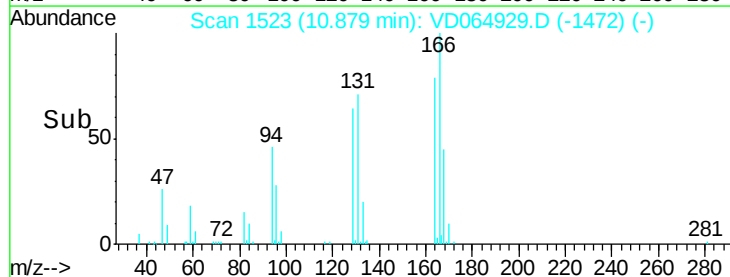
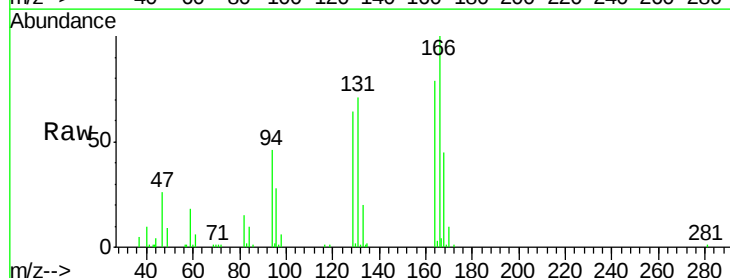
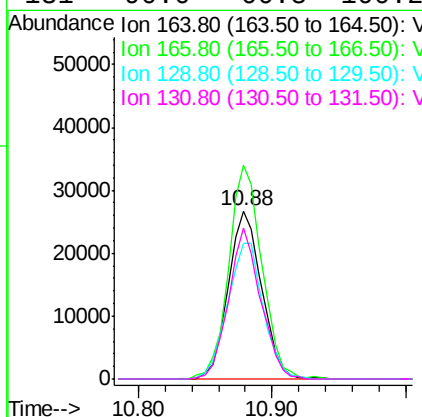
Manual Integrations
APPROVED

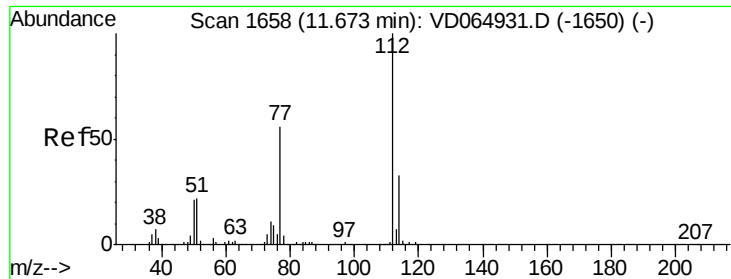
MMDadoda
1/24/2020 4:01:46 PM



#64
Tetrachloroethene
Concen: 10.718 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.4	101.4	152.2
129	81.3	71.8	107.8
131	90.0	66.8	100.2





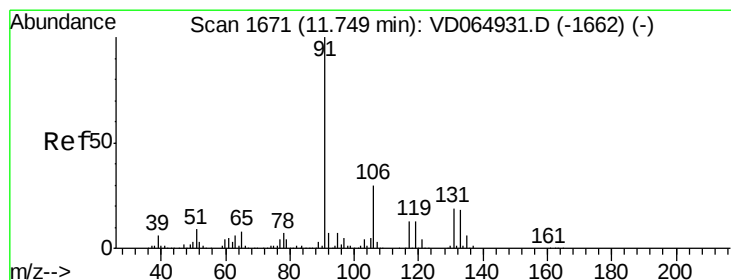
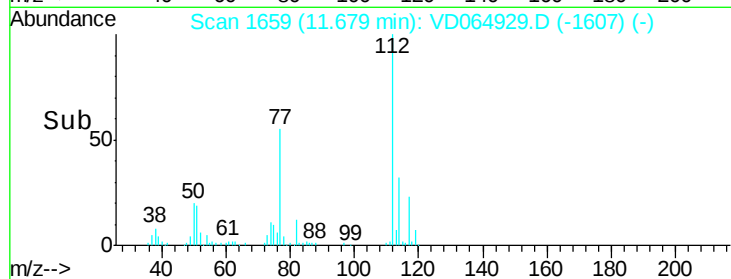
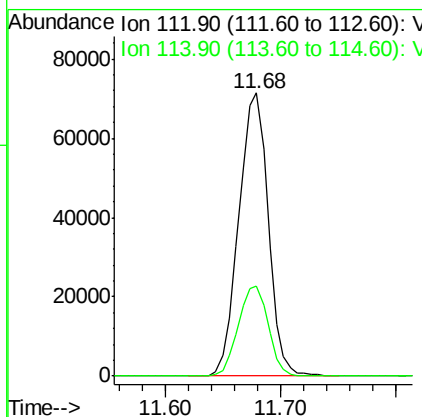
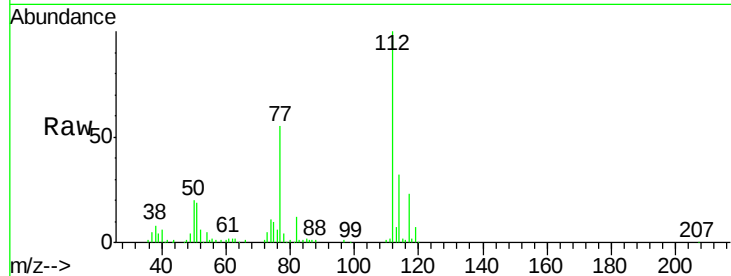
#65
Chlorobenzene
Concen: 10.788 ug/l
RT: 11.68 min Scan# 1659
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	26.2	39.4

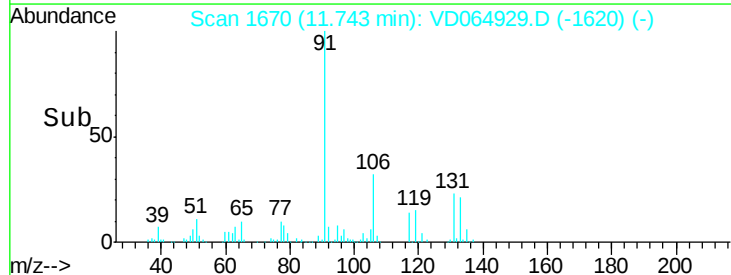
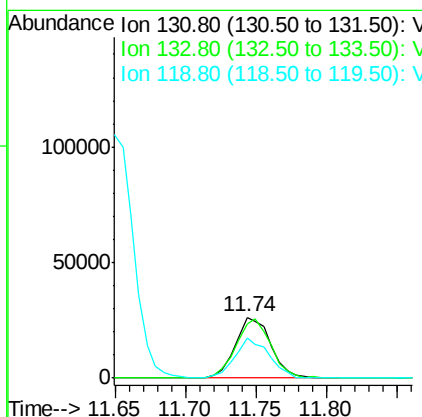
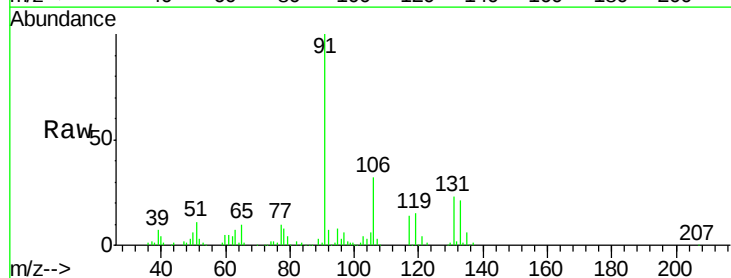
Manual Integrations
APPROVED

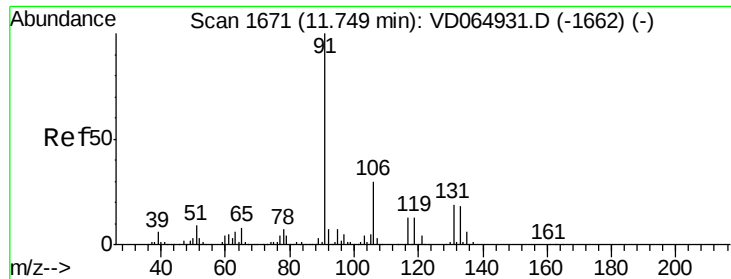
MMDadoda
1/24/2020 4:01:46 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 10.414 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.0	47.5	142.5
119	64.3	31.1	93.5





#67

Ethyl Benzene

Concen: 10.113 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 216581

Ion Ratio Lower Upper

91 100

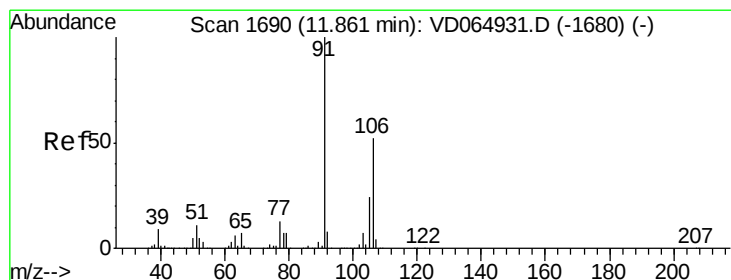
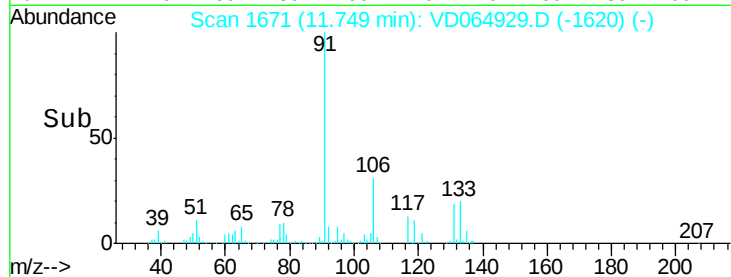
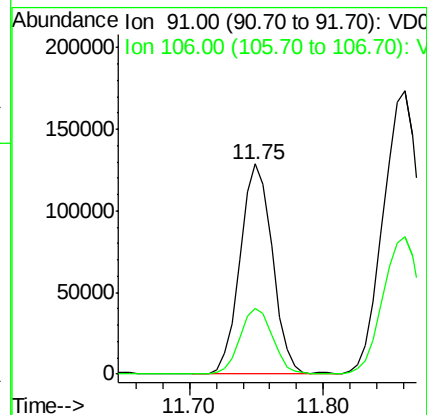
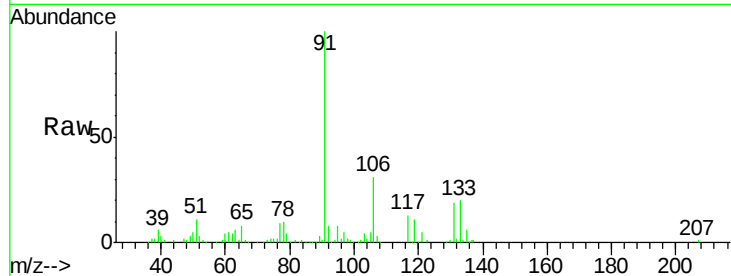
106 31.4 24.3 36.5

Manual Integrations

APPROVED

MMDadoda

1/24/2020 4:01:46 PM



#68

m/p-Xylenes

Concen: 19.955 ug/l

RT: 11.86 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VD064929.D

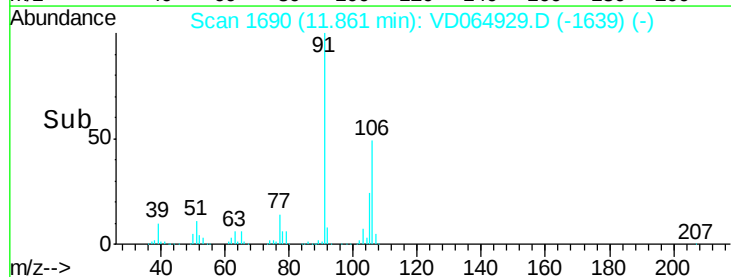
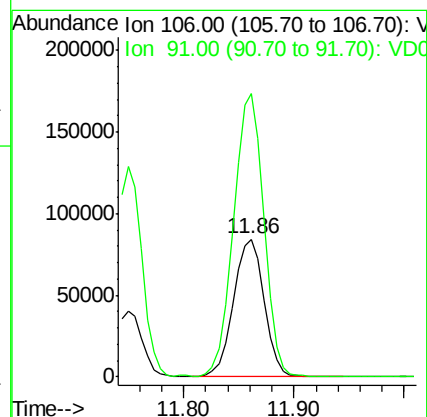
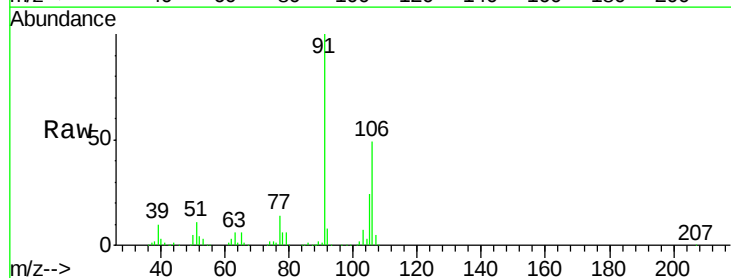
Acq: 23 Jan 2020 11:26

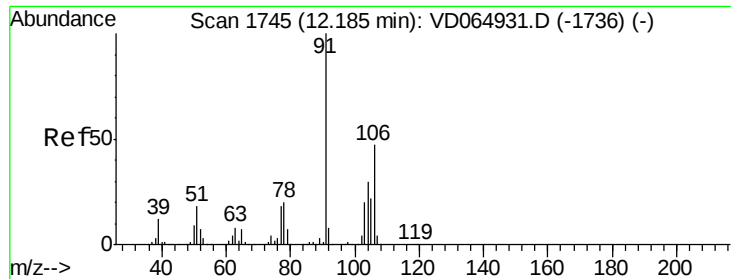
Tgt Ion: 106 Resp: 164552

Ion Ratio Lower Upper

106 100

91 203.0 159.0 238.4





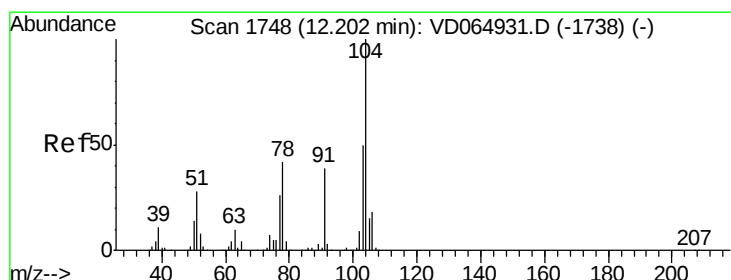
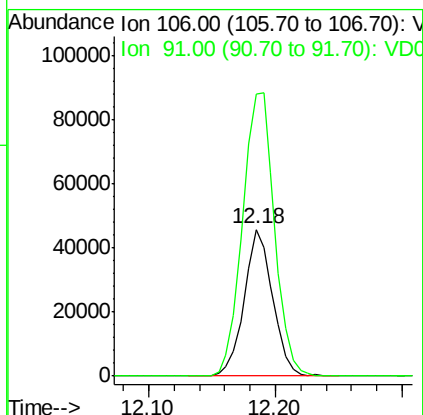
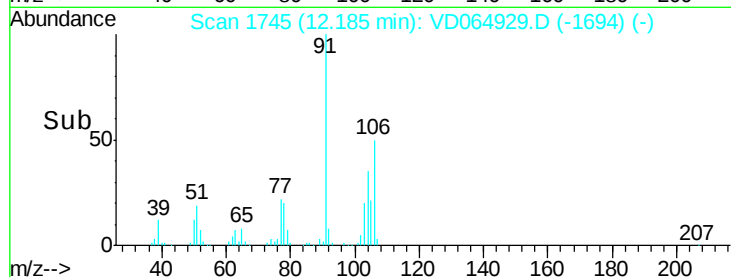
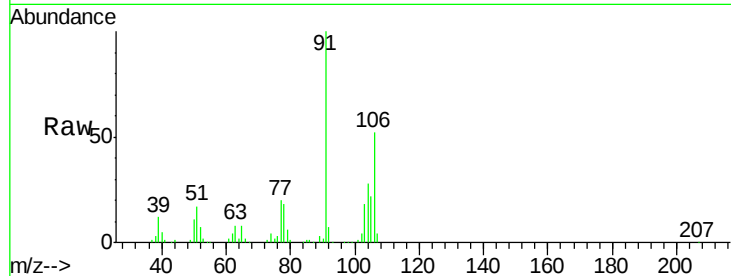
#69
o-Xylene
Concen: 9.615 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleID :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
106	100		
91	216.4	106.7	319.9

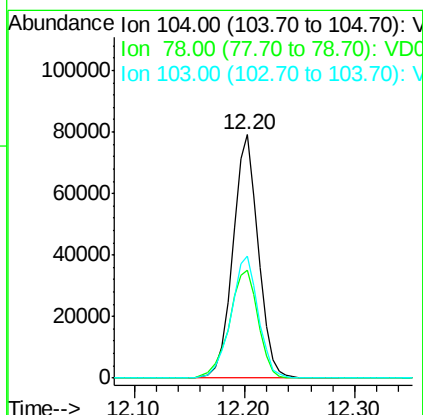
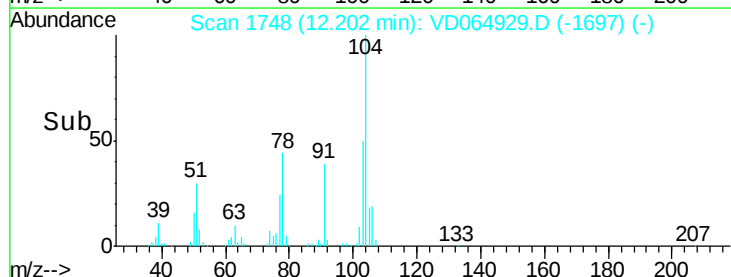
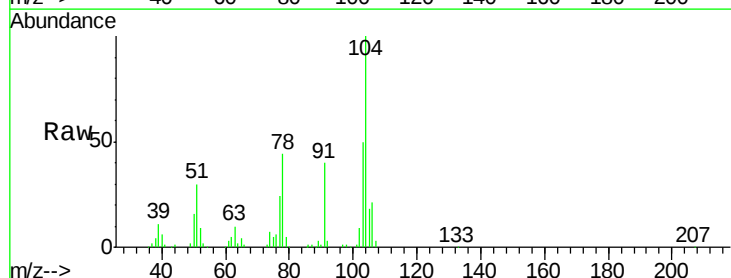
Manual Integrations
APPROVED

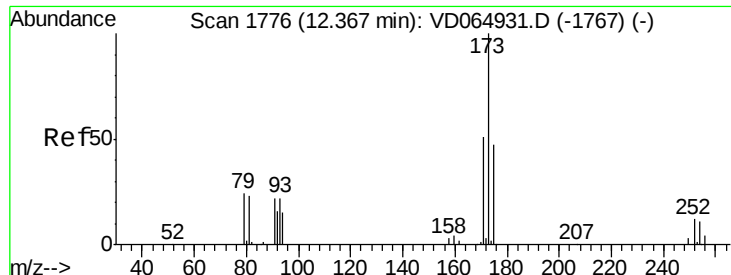
MMDadoda
1/24/2020 4:01:46 PM



#70
Styrene
Concen: 9.722 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
104	100		
78	50.1	38.3	57.5
103	54.2	43.5	65.3





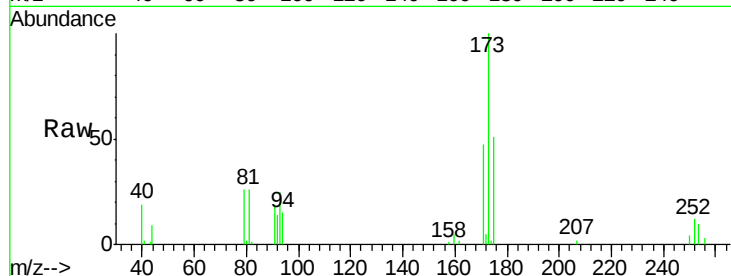
#71
Bromoform
Concen: 10.392 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

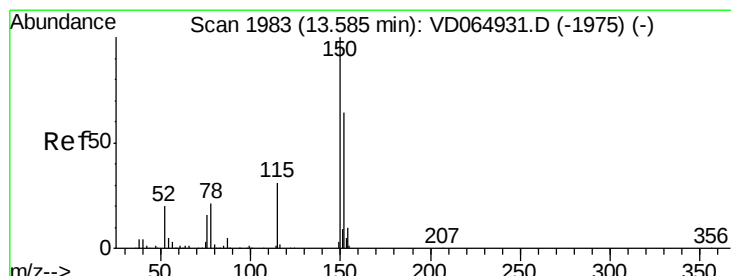
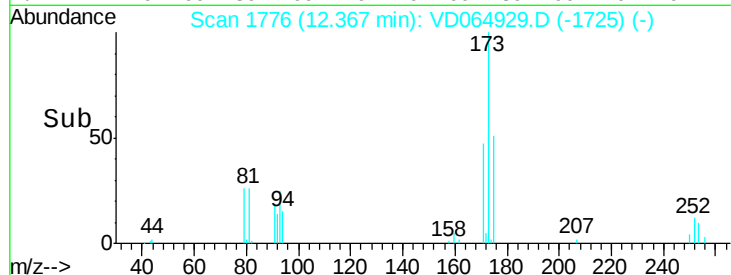
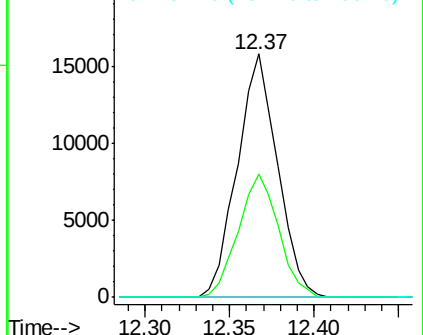
Tot Ion	Ratio	Lower	Upper
173	100		
175	50.7	24.6	73.8
254	0.0	0.1	0.1#

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM

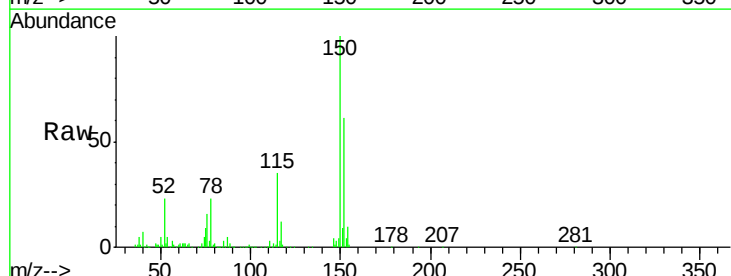


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

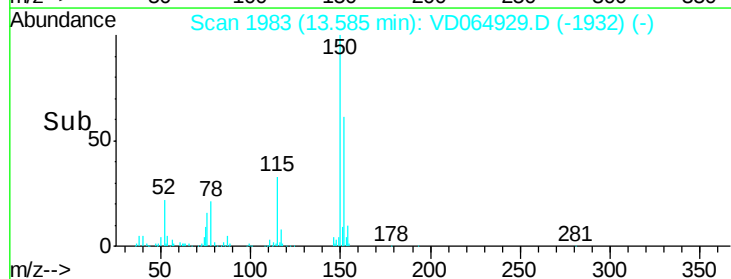
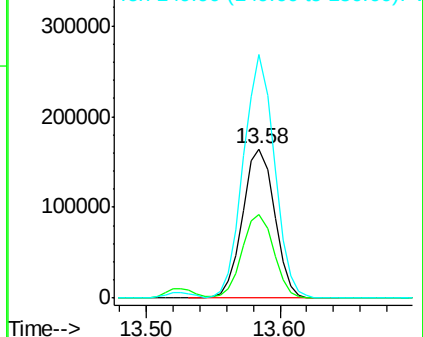


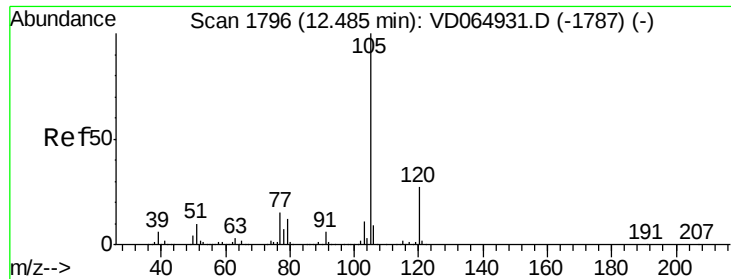
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.8	28.1	84.4
150	159.2	0.0	350.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 10.353 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 105 Resp: 199285

Ion Ratio Lower Upper

105 100

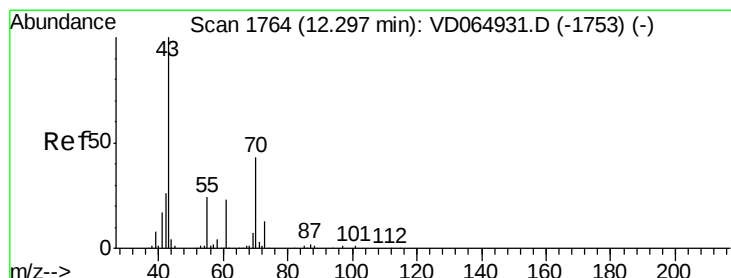
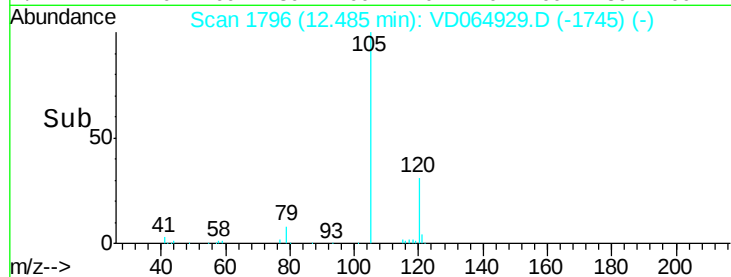
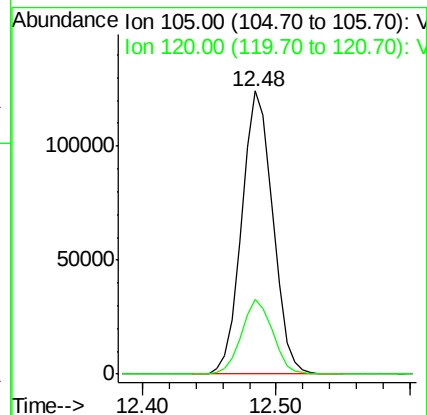
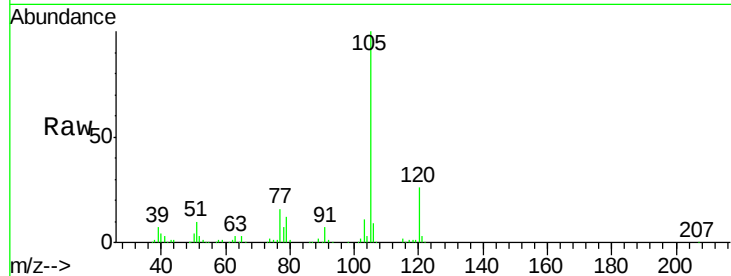
120 26.5 13.3 39.8

Manual Integrations

APPROVED

MMDadoda

1/24/2020 4:01:46 PM



#74

N-ethyl acetate

Concen: 10.561 ug/l

RT: 12.30 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Tgt Ion: 43 Resp: 43572

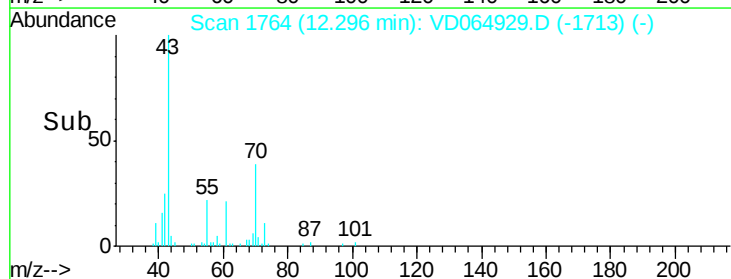
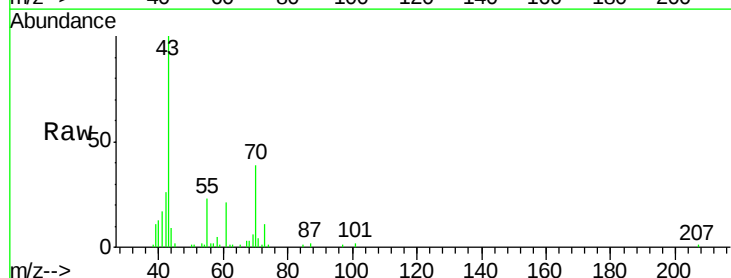
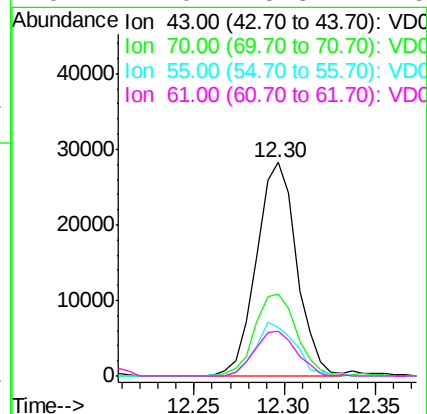
Ion Ratio Lower Upper

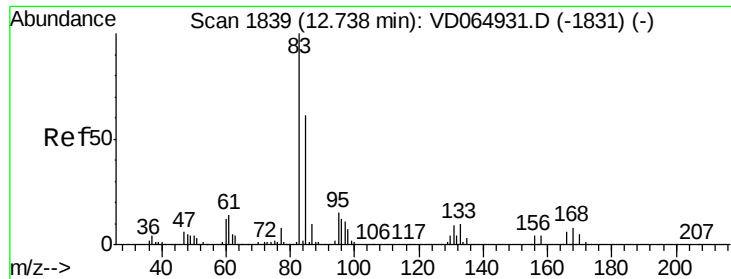
43 100

70 39.9 32.6 49.0

55 25.0 19.9 29.9

61 22.0 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 11.875 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

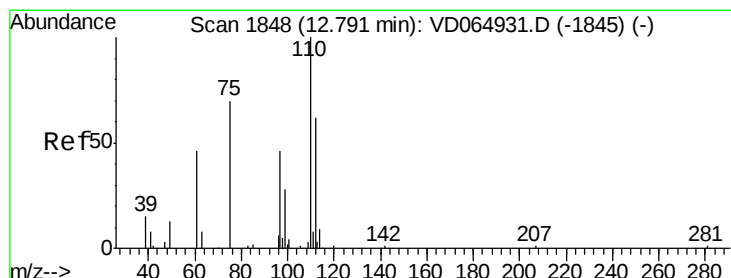
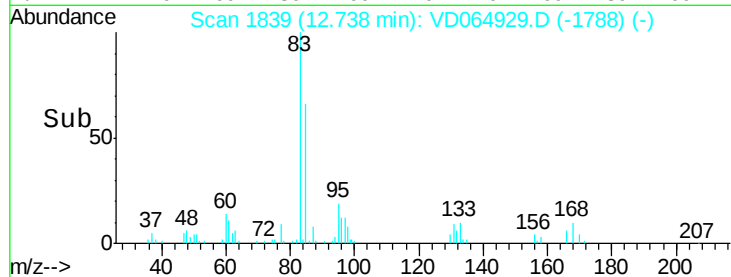
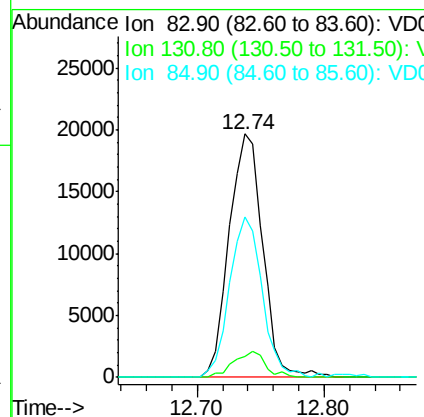
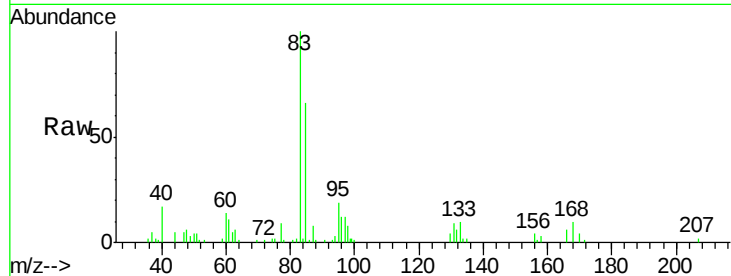
ClientSampleId :

VSTDIC010

Tot Ion:	83	Resp:	36144
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.5	16.4
85	63.9	31.6	94.7

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



#76

1,2,3-Trichloropropane

Concen: 10.999 ug/l m

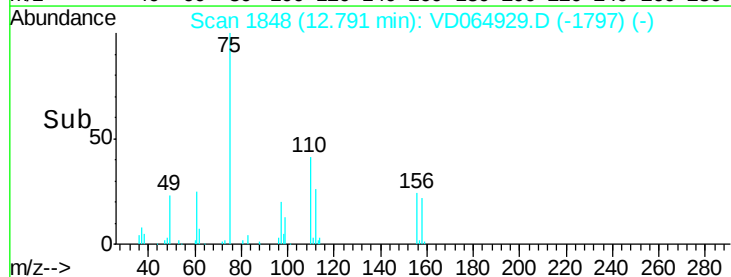
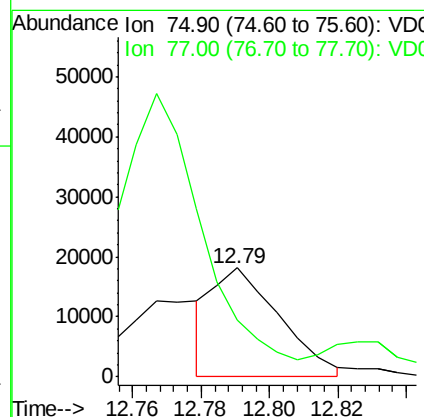
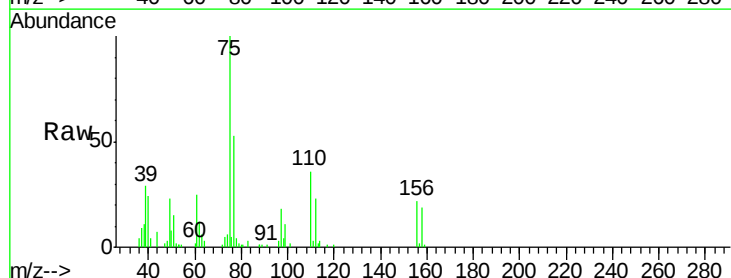
RT: 12.79 min Scan# 1848

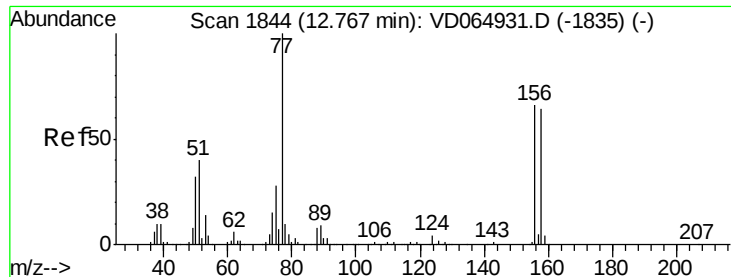
Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Tgt Ion:	75	Resp:	24569
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 10.635 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

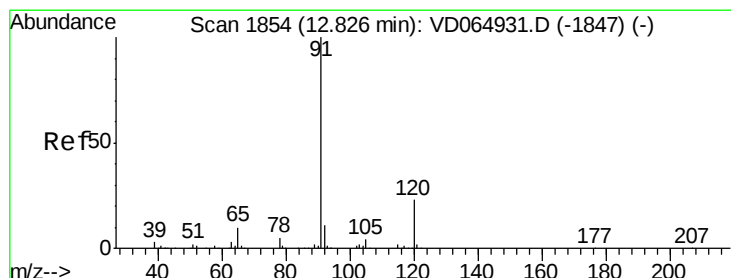
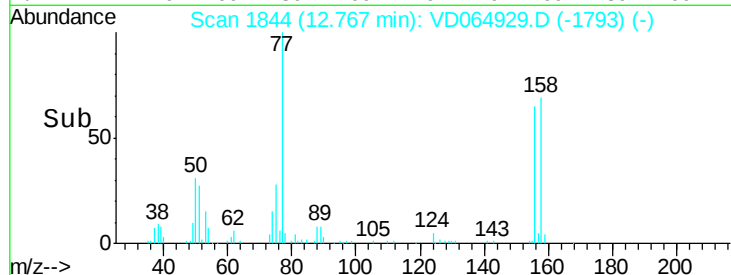
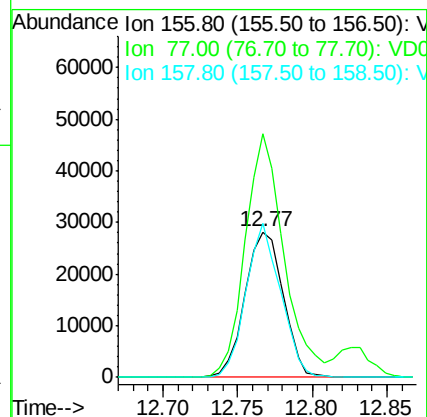
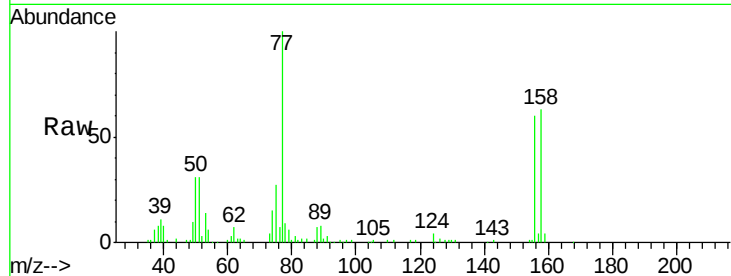
ClientSampleId :

VSTDIC010

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	168.6	84.2	252.5	
158	95.4	48.1	144.4	

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



#78

n-propylbenzene

Concen: 10.568 ug/l

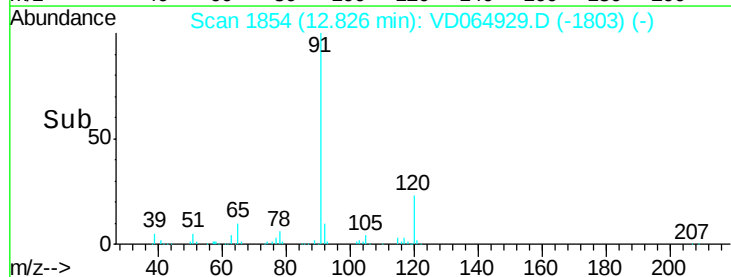
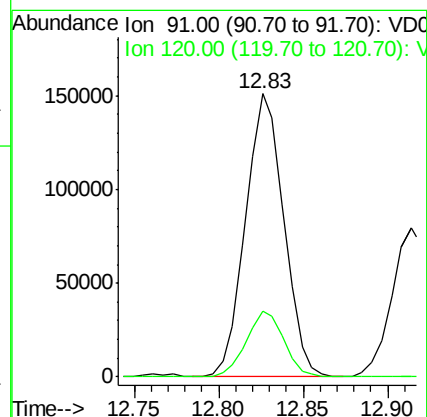
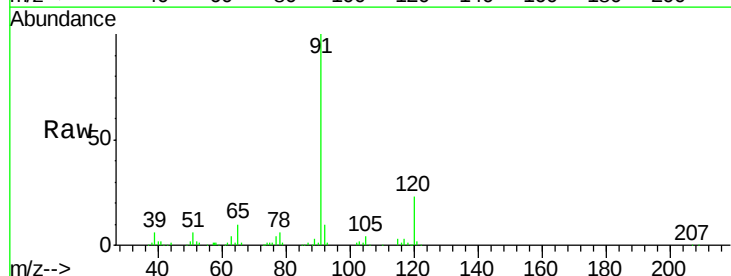
RT: 12.83 min Scan# 1854

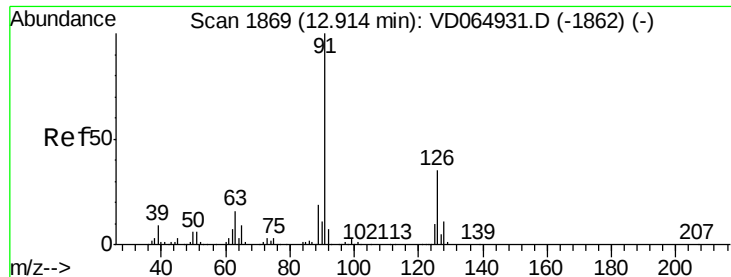
Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	22.8	11.7	35.1	





#79

2-Chlorotoluene

Concen: 10.741 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion: 91 Resp: 132886

Ion Ratio Lower Upper

91 100

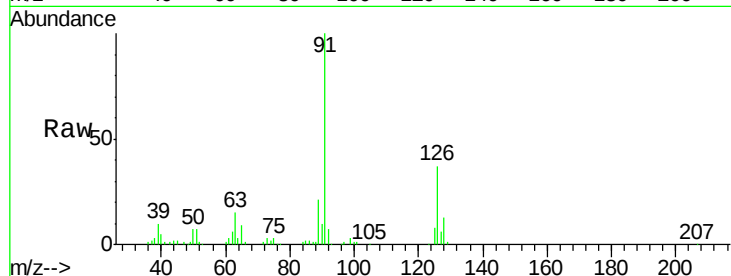
126 35.1 17.9 53.8

Manual Integrations

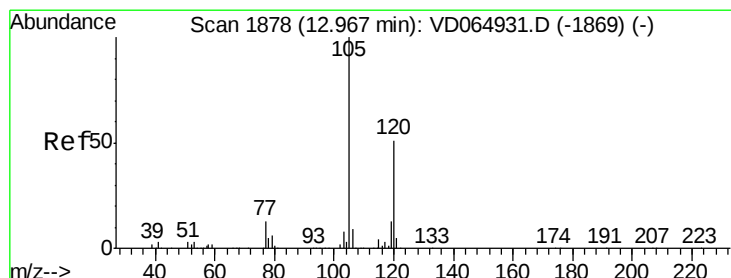
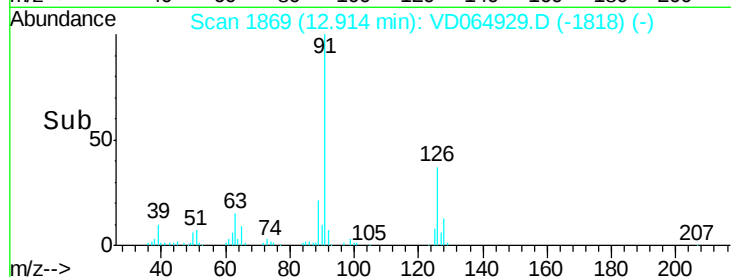
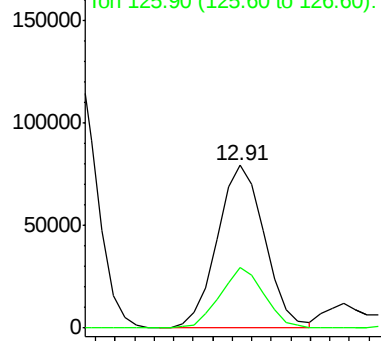
APPROVED

MMDadoda

1/24/2020 4:01:46 PM



Abundance Ion 91.00 (90.70 to 91.70): VD064931.D (-1862) (-)



#80

1,3,5-Trimethylbenzene

Concen: 10.363 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. -0.00 min

Lab File: VD064929.D

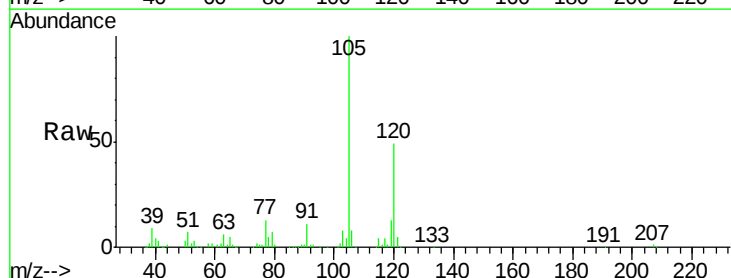
Acq: 23 Jan 2020 11:26

Tgt Ion: 105 Resp: 163423

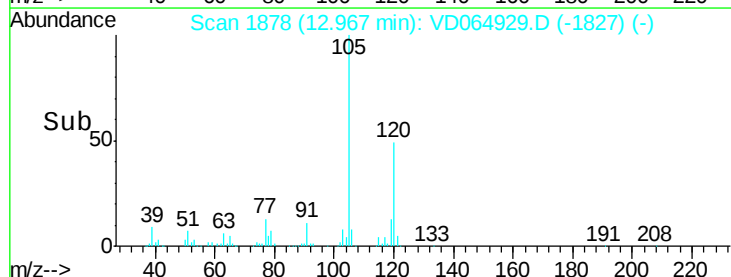
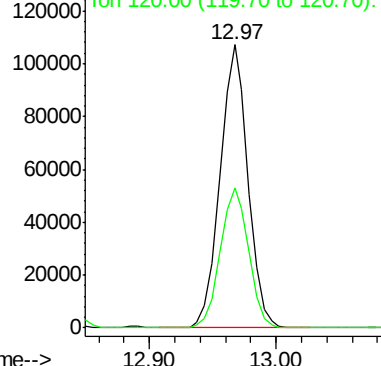
Ion Ratio Lower Upper

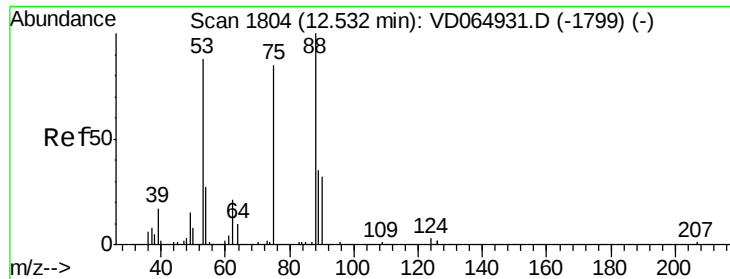
105 100

120 50.2 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): VD064931.D (-1869) (-)





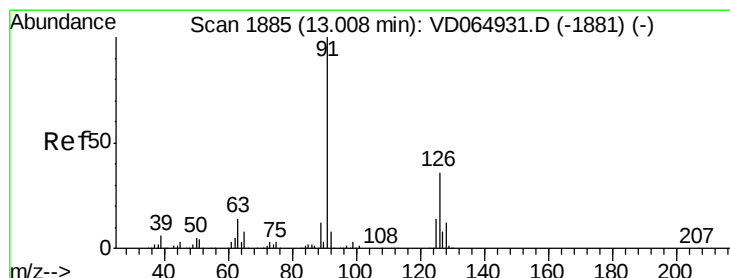
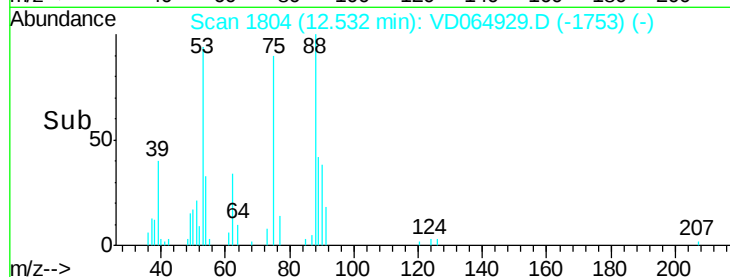
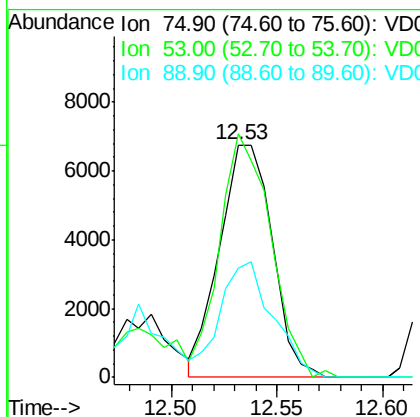
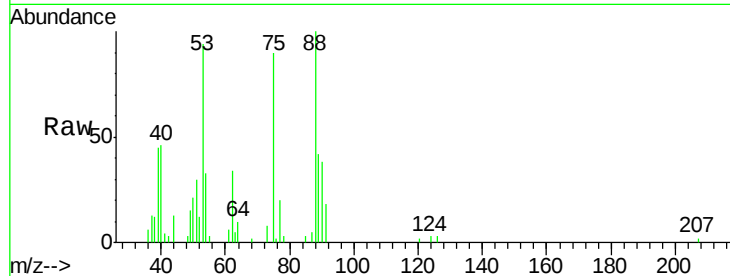
#81
trans-1,4-Dichloro-2-butene
Concen: 11.419 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
75	100		
53	101.0	81.0	121.4
89	49.7	36.2	54.4

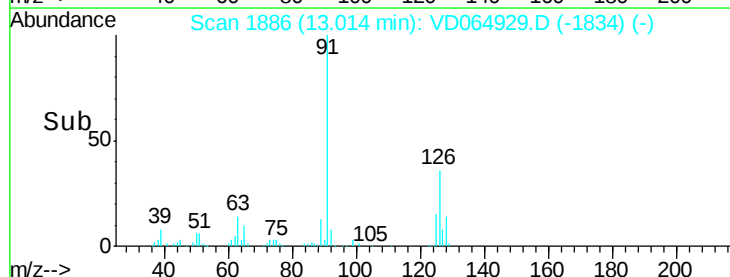
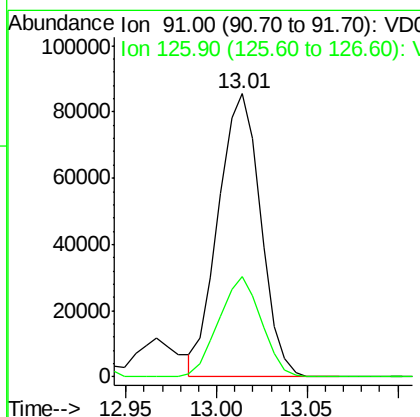
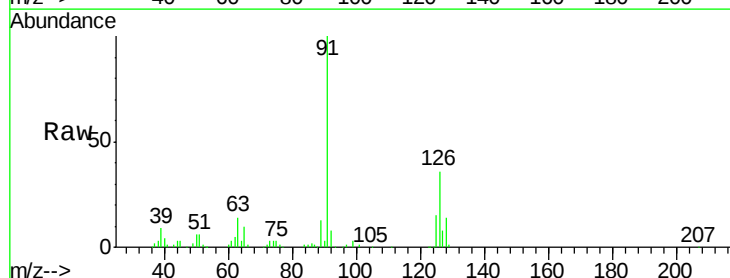
Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



#82
4-Chlorotoluene
Concen: 10.587 ug/l
RT: 13.01 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.7	18.0	54.0





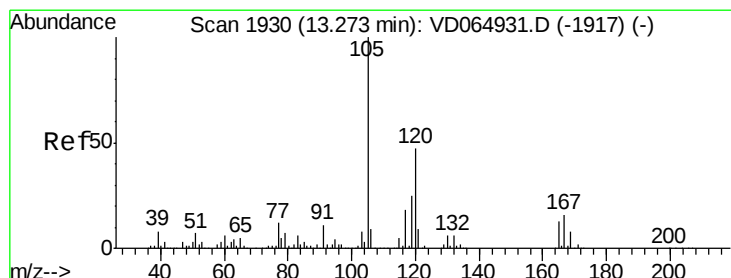
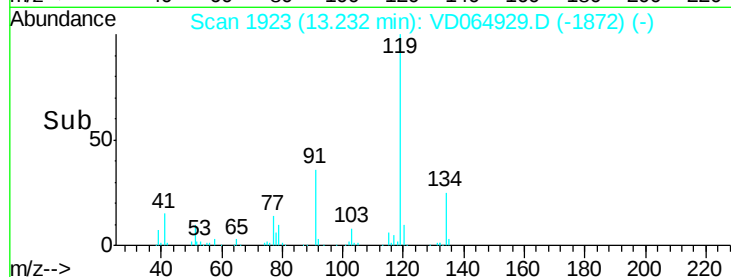
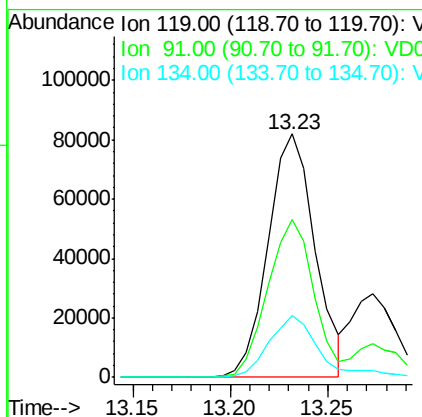
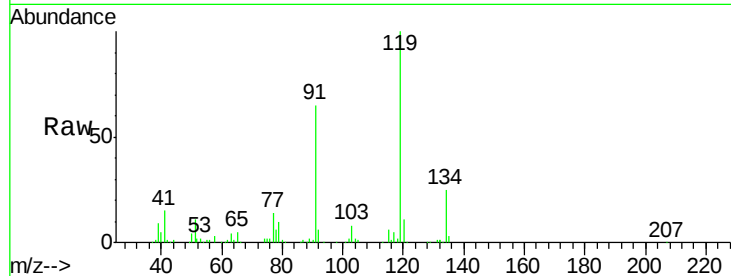
#83
tert-Butylbenzene
Concen: 9.977 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.1	32.0	96.0
134	27.1	13.9	41.6

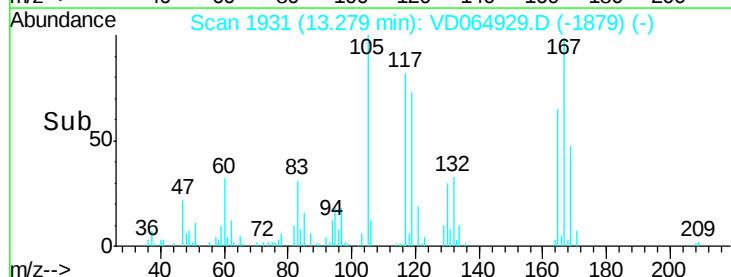
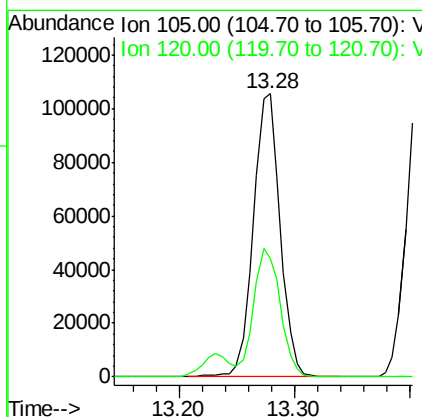
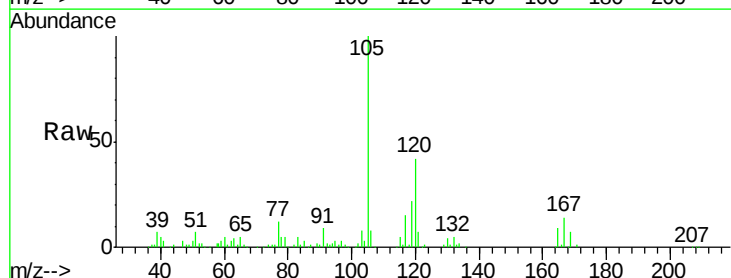
Manual Integrations
APPROVED

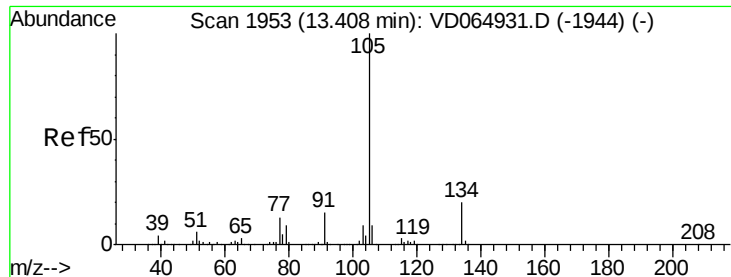
MMDadoda
1/24/2020 4:01:46 PM



#84
1,2,4-Trimethylbenzene
Concen: 10.820 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.8	23.1	69.3





#85

sec-Butylbenzene

Concen: 10.467 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

ClientSampleId :

VSTDIC010

Tot Ion:105 Resp: 196755

Ion Ratio Lower Upper

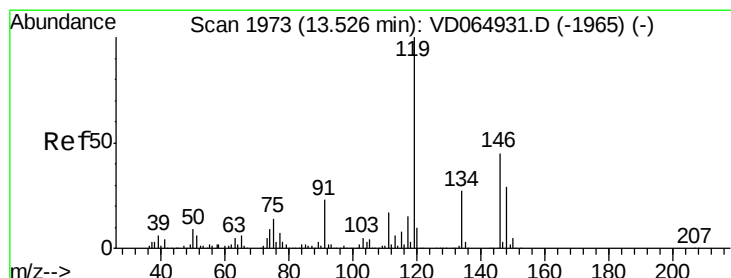
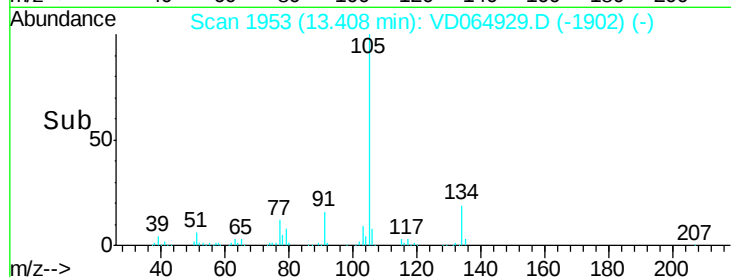
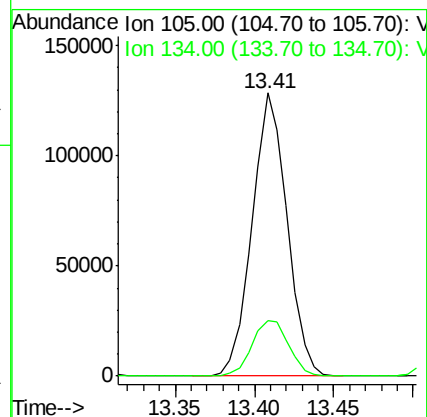
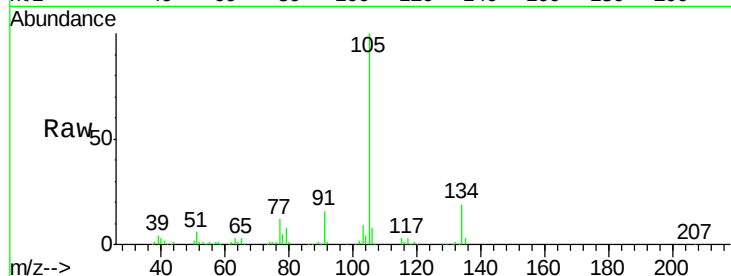
105 100

134 20.8 10.4 31.4

Manual Integrations
APPROVED

MMDadoda

1/24/2020 4:01:46 PM



#86

p-Isopropyltoluene

Concen: 10.163 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.00 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

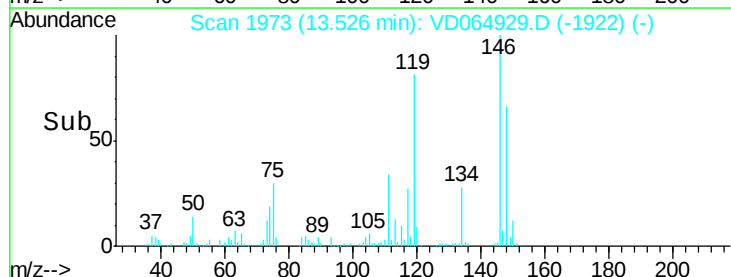
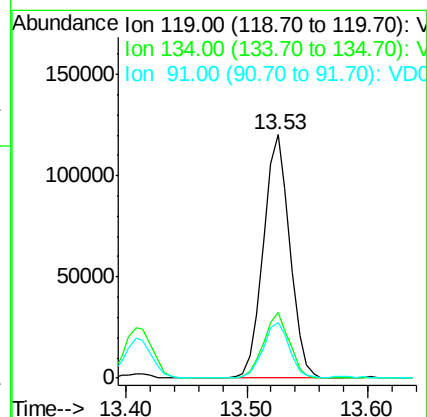
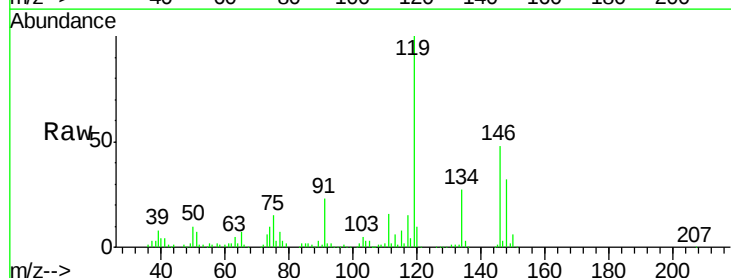
Tgt Ion:119 Resp: 182450

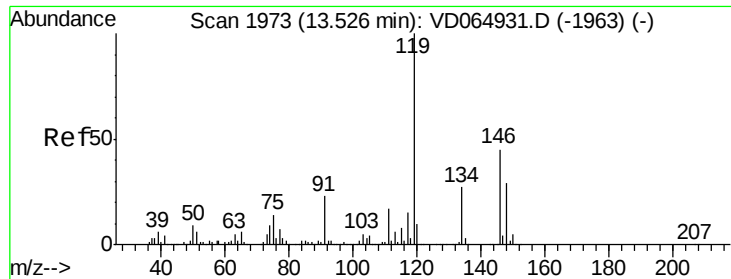
Ion Ratio Lower Upper

119 100

134 26.3 13.3 39.9

91 22.6 11.4 34.2





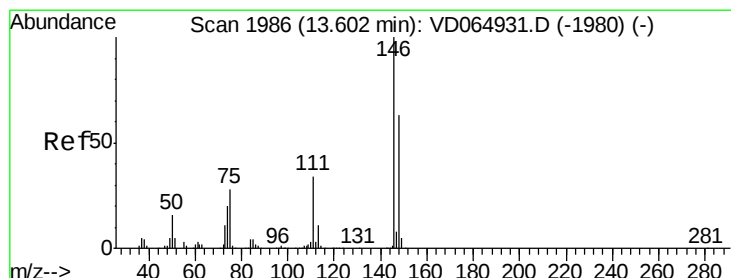
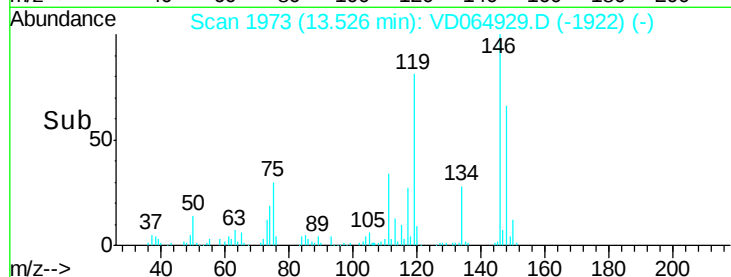
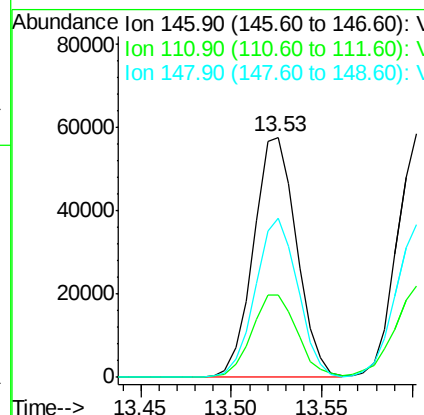
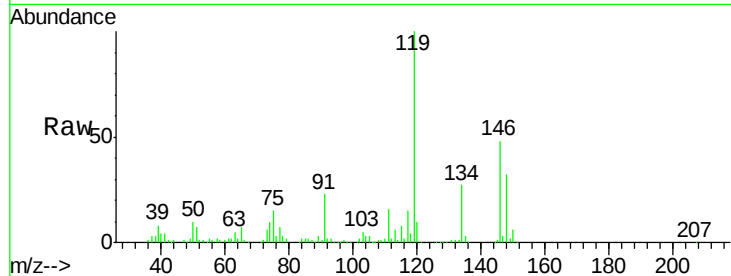
#87
 1,3-Dichlorobenzene
 Concen: 10.578 ug/l
 RT: 13.53 min Scan# 1973
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	18.9	56.9
148	65.4	32.6	97.7

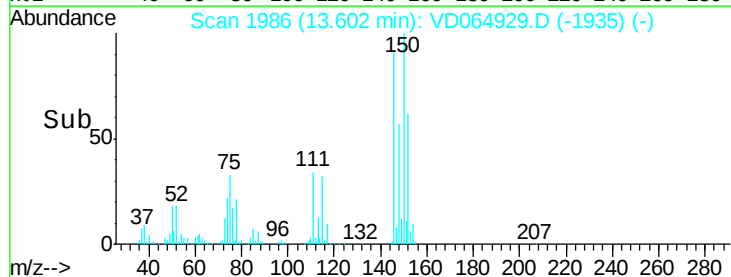
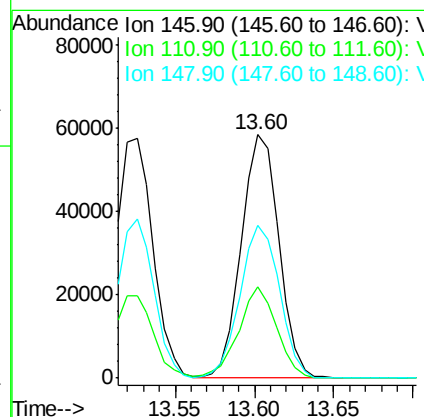
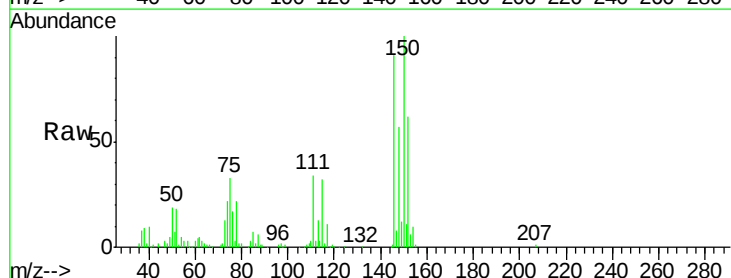
Manual Integrations
 APPROVED

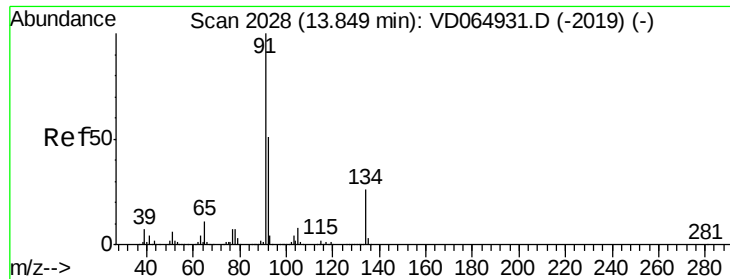
MMDadoda
 1/24/2020 4:01:46 PM



#88
 1,4-Dichlorobenzene
 Concen: 10.912 ug/l
 RT: 13.60 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.2	54.6
148	65.9	32.0	96.0





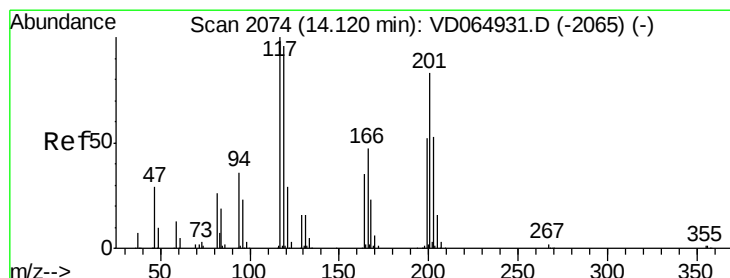
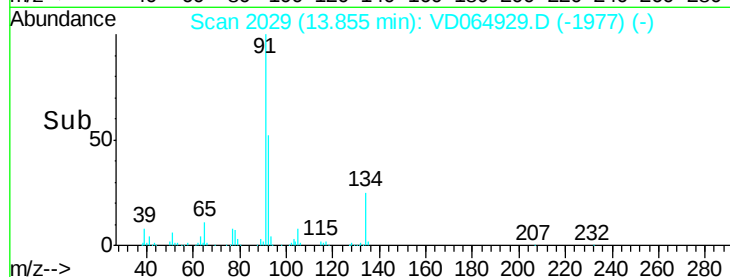
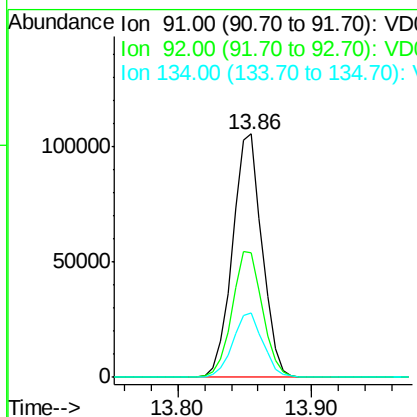
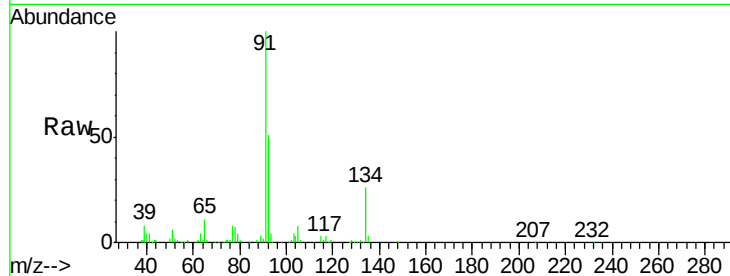
#89
n-Butylbenzene
Concen: 10.002 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.4	79.0
134	26.9	13.3	39.9

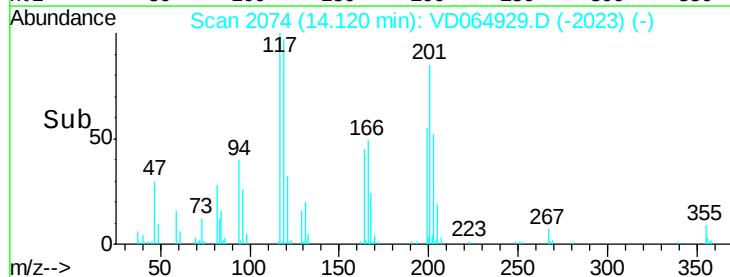
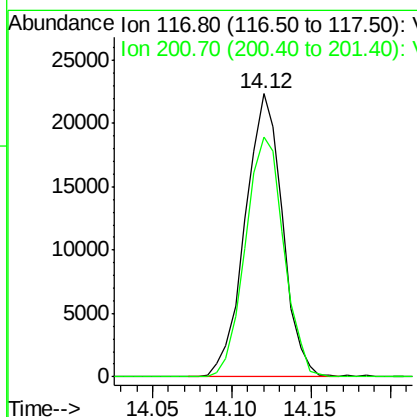
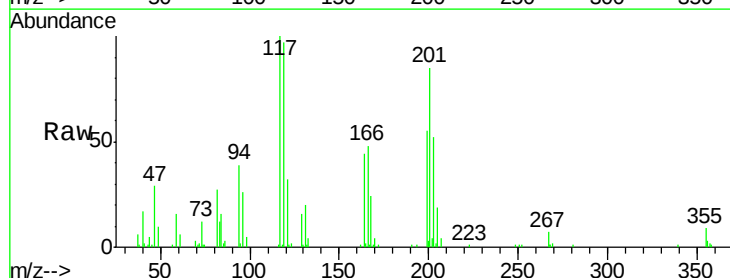
Manual Integrations
APPROVED

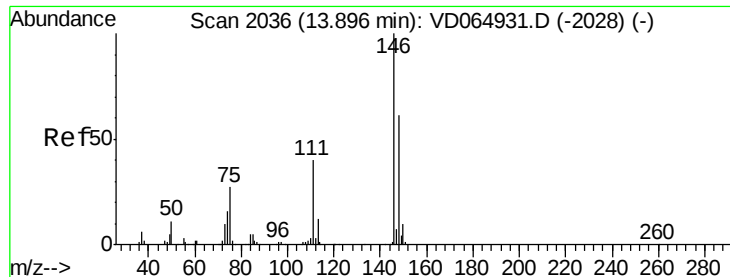
MMDadoda
1/24/2020 4:01:46 PM



#90
Hexachloroethane
Concen: 10.687 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
117	100		
201	86.6	41.1	123.3





#91

1,2-Dichlorobenzene

Concen: 10.680 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Instrument :

MSVOA_D

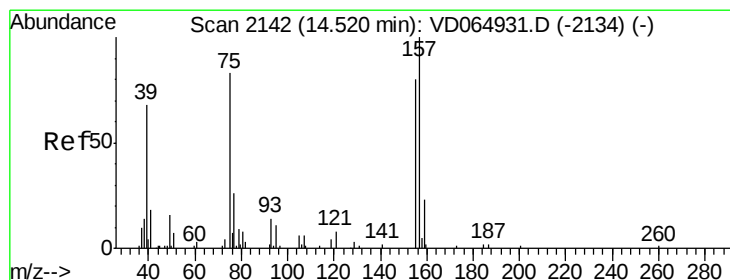
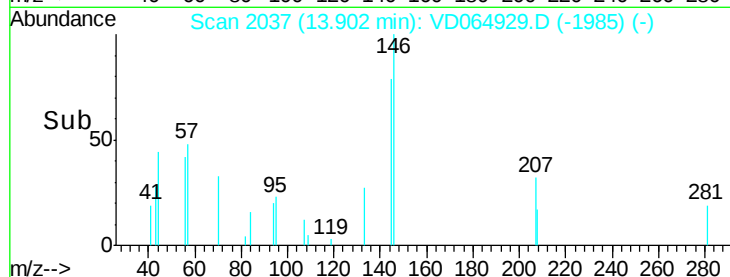
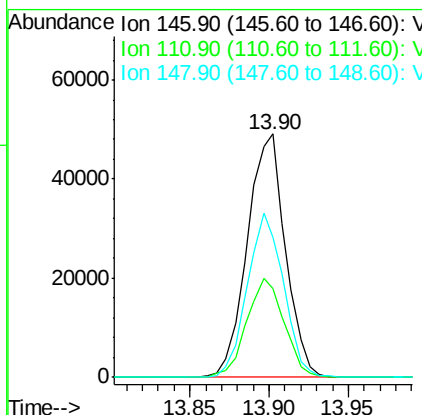
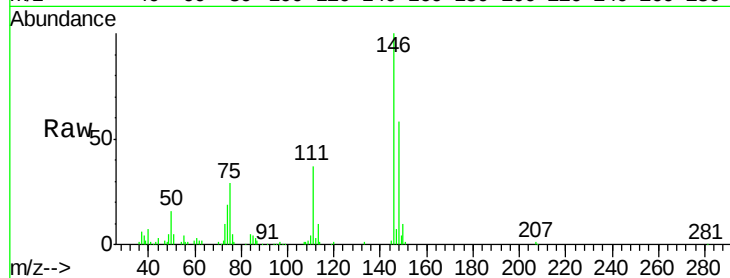
ClientSampleId :

VSTDIC010

Tot Ion:	146	Resp:	81909
Ion Ratio	Lower	Upper	
146	100		
111	40.1	19.4	58.2
148	64.3	31.6	95.0

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 11.859 ug/l

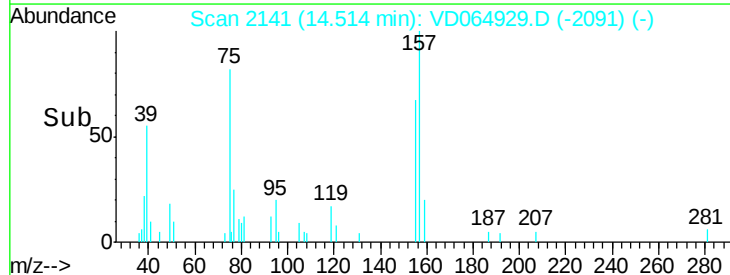
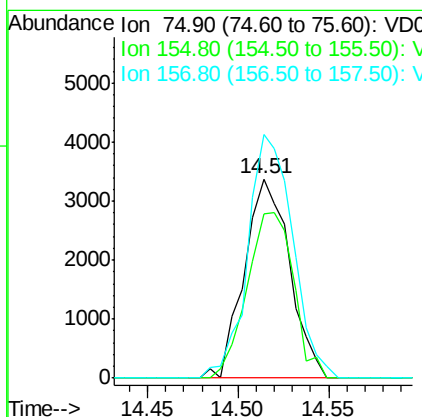
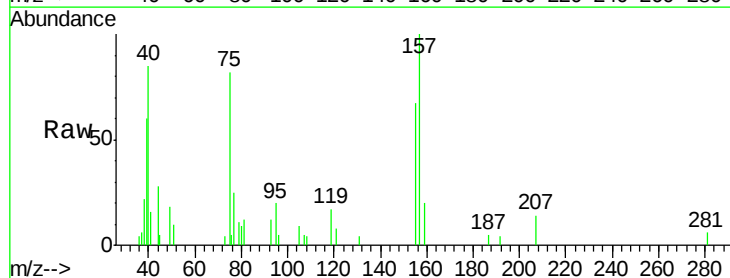
RT: 14.51 min Scan# 2141

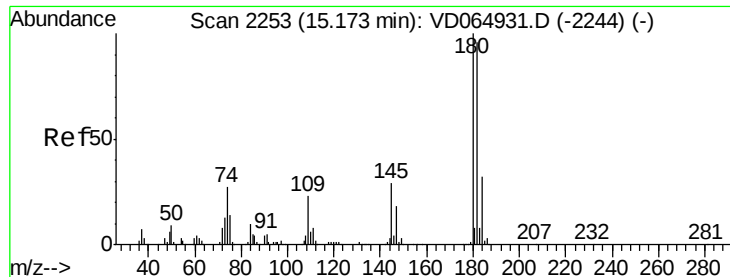
Delta R.T. -0.01 min

Lab File: VD064929.D

Acq: 23 Jan 2020 11:26

Tgt Ion:	75	Resp:	5839
Ion Ratio	Lower	Upper	
75	100		
155	85.2	44.9	134.7
157	121.8	58.9	176.6





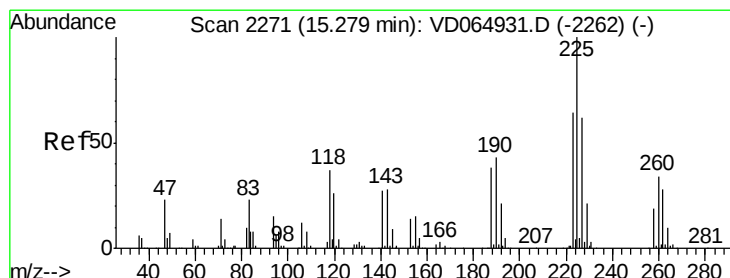
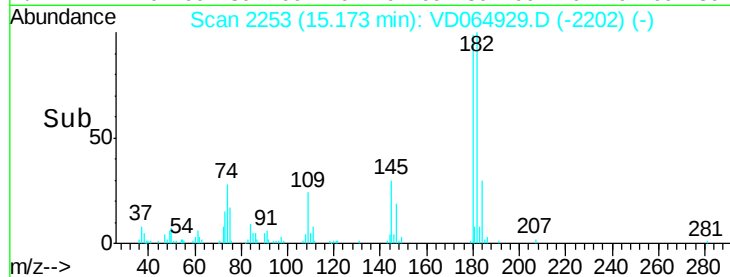
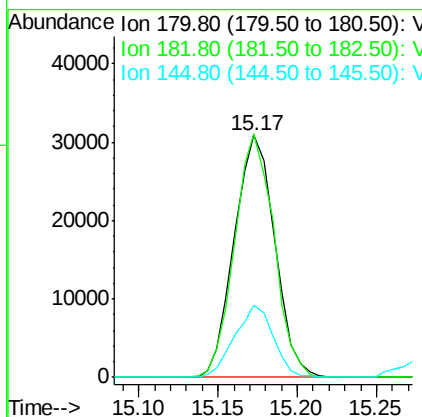
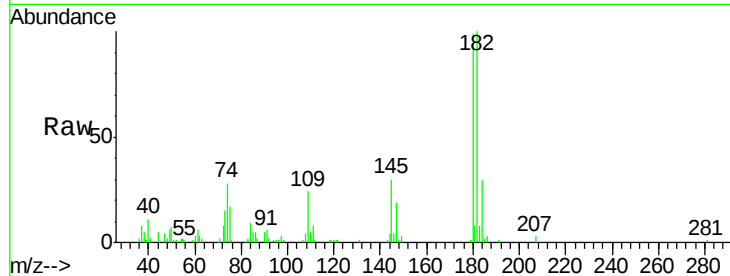
#93
 1,2,4-Trichlorobenzene
 Concen: 9.820 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDIC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.1	141.4
145	28.4	14.1	42.3

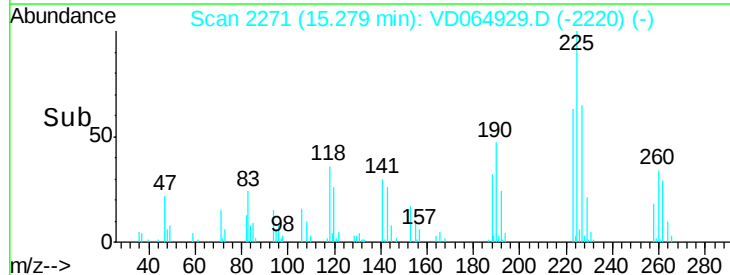
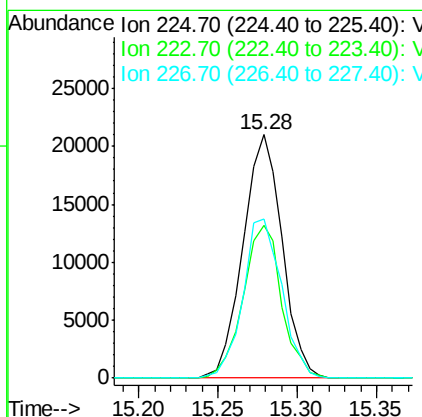
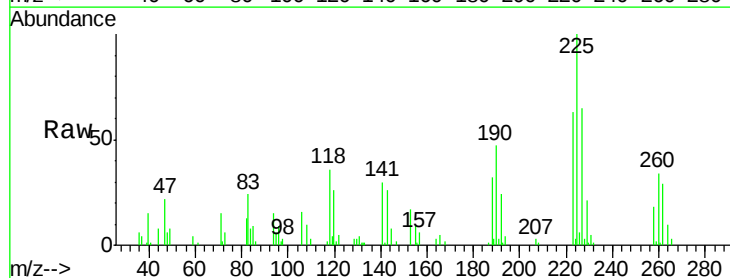
Manual Integrations
 APPROVED

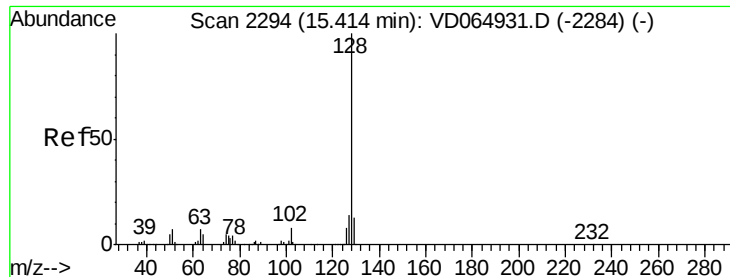
MMDadoda
 1/24/2020 4:01:46 PM



#94
 Hexachlorobutadiene
 Concen: 10.262 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VD064929.D
 Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.8	32.4	97.2
227	64.9	31.9	95.9





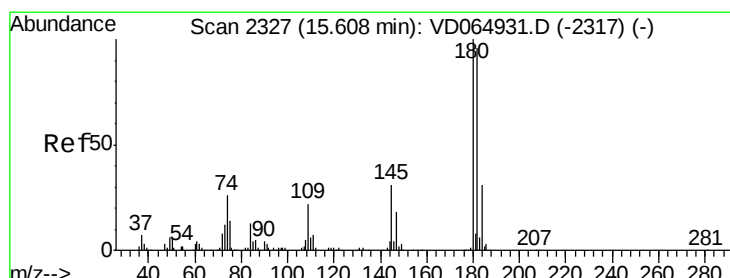
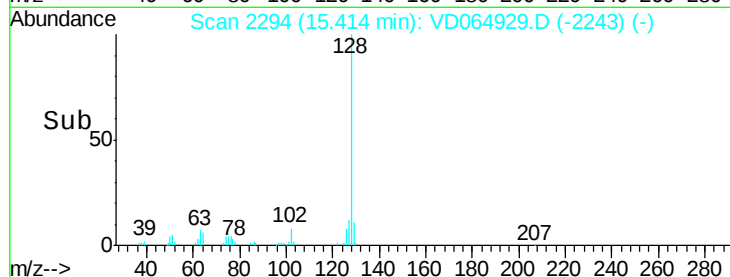
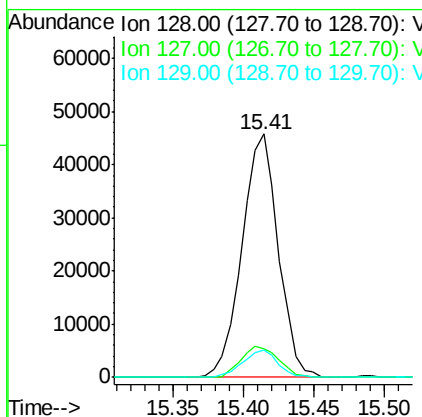
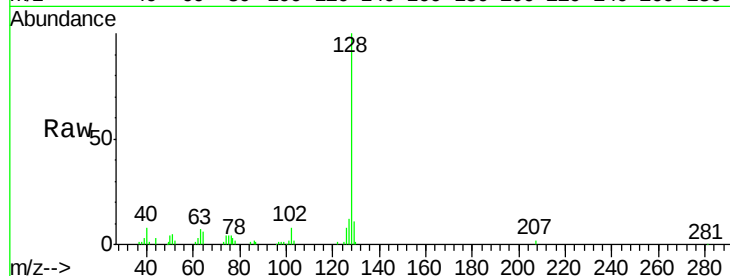
#95
Naphthalene
Concen: 9.298 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Instrument :
MSVOA_D
ClientSampleId :
VSTDIC010

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.6	15.8
129	10.8	9.3	13.9

Manual Integrations
APPROVED

MMDadoda
1/24/2020 4:01:46 PM



#96
1,2,3-Trichlorobenzene
Concen: 10.196 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. -0.00 min
Lab File: VD064929.D
Acq: 23 Jan 2020 11:26

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.3	141.8
145	30.1	14.6	43.8

