

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122218\
 Data File : VD060700.D
 Acq On : 22 Dec 2018 10:50
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 11:04:06 AM

Quant Time: Dec 24 02:21:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	1579581	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	7.48	114	2215669	50.00	ug/l	0.04
63) Chlorobenzene-d5	11.31	117	1696276	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	13.39	152	875745	50.00	ug/l	0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.82	65	475665	43.58	ug/l	0.03
Spiked Amount	50.000		Recovery	=	87.16%	
35) Dibromofluoromethane	6.36	113	713745	44.01	ug/l	0.03
Spiked Amount	50.000		Recovery	=	88.02%	
50) Toluene-d8	9.49	98	2174092	44.93	ug/l	0.03
Spiked Amount	50.000		Recovery	=	89.86%	
62) 4-Bromofluorobenzene	12.44	95	757767	44.72	ug/l	0.02
Spiked Amount	50.000		Recovery	=	89.44%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.62	85	1035879	51.324	ug/l	99
3) Chloromethane	1.78	50	937599	50.477	ug/l	100
4) Vinyl Chloride	1.88	62	730728	49.550	ug/l	100
5) Bromomethane	2.19	94	212585	64.353	ug/l	97
6) Chloroethane	2.30	64	264173	60.025	ug/l	99
7) Trichlorofluoromethane	2.54	101	872112	53.167	ug/l	98
8) Diethyl Ether	2.87	74	147439	53.725	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.13	101	551453	51.828	ug/l	98
10) Methyl Iodide	3.29	142	641951	57.408	ug/l	100
11) Tert butyl alcohol	4.01	59	112747	247.141	ug/l	95
12) 1,1-Dichloroethene	3.11	96	460853	52.714	ug/l	99
13) Acrolein	3.02	56	104317	224.389	ug/l	98
14) Allyl chloride	3.57	41	818592	51.028	ug/l	97
15) Acrylonitrile	4.13	53	627538	236.936	ug/l	97
16) Acetone	3.19	43	520341	272.954	ug/l	100
17) Carbon Disulfide	3.36	76	1448392	51.875	ug/l	98
18) Methyl Acetate	3.59	43	240873	50.984	ug/l	99
19) Methyl tert-butyl Ether	4.17	73	1107869	49.948	ug/l	100
20) Methylene Chloride	3.76	84	828277	41.837	ug/l	99
21) trans-1,2-Dichloroethene	4.15	96	907477	50.685	ug/l	99
22) Diisopropyl ether	4.89	45	2756123	50.601	ug/l	98
23) Vinyl Acetate	4.84	43	6413933	243.400	ug/l	100
24) 1,1-Dichloroethane	4.80	63	1465511	51.153	ug/l	99
25) 2-Butanone	5.66	43	905786	248.303	ug/l	98
26) 2,2-Dichloropropane	5.63	77	1168075	51.651	ug/l	100
27) cis-1,2-Dichloroethene	5.63	96	924661	50.875	ug/l	97
28) Bromochloromethane	5.97	49	625725	51.699	ug/l	94
29) Tetrahydrofuran	5.99	42	481165	232.672	ug/l	99
30) Chloroform	6.14	83	1422168	49.333	ug/l	99
31) Cyclohexane	6.41	56	1337853	48.525	ug/l	98
32) 1,1,1-Trichloroethane	6.33	97	1210773	50.766	ug/l	98
36) 1,1-Dichloropropene	6.56	75	1144160	50.149	ug/l	97
37) Ethyl Acetate	5.74	43	457764	47.974	ug/l	98
38) Carbon Tetrachloride	6.54	117	1022492	50.799	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122218\
 Data File : VD060700.D
 Acq On : 22 Dec 2018 10:50
 Operator : VA/AP
 Sample : VSTDCCC050
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 11:04:06 AM

Quant Time: Dec 24 02:21:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.07	83	1256079	48.272	ug/l	96
40) Benzene	6.83	78	2948862	50.037	ug/l	100
41) Methacrylonitrile	5.96	41	224475m	42.530	ug/l	
42) 1,2-Dichloroethane	6.93	62	711671	48.662	ug/l	99
43) Isopropyl Acetate	8.38	43	592694	48.403	ug/l	100
44) Trichloroethene	7.78	130	909851	52.162	ug/l	98
45) 1,2-Dichloropropane	8.13	63	717931	49.674	ug/l	98
46) Dibromomethane	8.25	93	398821	48.349	ug/l	96
47) Bromodichloromethane	8.52	83	992902	50.821	ug/l	100
48) Methyl methacrylate	8.28	41	358689	48.229	ug/l	98
49) 1,4-Dioxane	8.26	88	64428	931.710	ug/l	95
51) 4-Methyl-2-Pentanone	9.37	43	1767501	235.599	ug/l	99
52) Toluene	9.58	92	1840064	49.806	ug/l	100
53) t-1,3-Dichloropropene	9.95	75	813252	49.895	ug/l	99
54) cis-1,3-Dichloropropene	9.13	75	1067933	50.057	ug/l	98
55) 1,1,2-Trichloroethane	10.21	97	479313	48.219	ug/l	99
56) Ethyl methacrylate	10.06	69	458153	49.622	ug/l	98
57) 1,3-Dichloropropane	10.41	76	775428	49.215	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.96	63	1254860	230.662	ug/l	99
59) 2-Hexanone	10.51	43	1304593	248.435	ug/l	99
60) Dibromochloromethane	10.67	129	621279	49.068	ug/l	100
61) 1,2-Dibromoethane	10.79	107	503169	48.801	ug/l	97
64) Tetrachloroethene	10.29	164	826844	53.780	ug/l	96
65) Chlorobenzene	11.34	112	1936740	51.678	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.44	131	637276	52.887	ug/l	100
67) Ethyl Benzene	11.45	91	3345396	52.123	ug/l	100
68) m/p-Xylenes	11.59	106	2464067	105.051	ug/l	100
69) o-Xylene	11.96	106	1183572	53.186	ug/l	98
70) Styrene	11.98	104	1906692	53.199	ug/l	100
71) Bromoform	12.14	173	413580	51.996	ug/l	96
73) Isopropylbenzene	12.29	105	3304227	52.993	ug/l	100
74) N-amyl acetate	12.16	43	762283	51.800	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.58	83	501957	49.667	ug/l	99
76) 1,2,3-Trichloropropane	12.62	75	497854	49.934	ug/l	97
77) Bromobenzene	12.56	156	871166	52.921	ug/l	95
78) n-propylbenzene	12.66	91	4118347	51.665	ug/l	99
79) 2-Chlorotoluene	12.73	91	2228653	52.199	ug/l	98
80) 1,3,5-Trimethylbenzene	12.82	105	2588149	53.755	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.36	75	146844	53.301	ug/l	94
82) 4-Chlorotoluene	12.83	91	2498569	51.631	ug/l	96
83) tert-Butylbenzene	13.06	119	2897071	52.871	ug/l	92
84) 1,2,4-Trimethylbenzene	13.11	105	2572892	51.885	ug/l	100
85) sec-Butylbenzene	13.24	105	3552762	53.166	ug/l	97
86) p-Isopropyltoluene	13.36	119	2848809	52.813	ug/l	99
87) 1,3-Dichlorobenzene	13.33	146	1485148	49.146	ug/l	96
88) 1,4-Dichlorobenzene	13.41	146	1505862	50.570	ug/l	96
89) n-Butylbenzene	13.66	91	2899039	52.593	ug/l	98
90) Hexachloroethane	13.88	117	723821	54.622	ug/l	89
91) 1,2-Dichlorobenzene	13.68	146	1259689	51.966	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.24	75	60990	51.368	ug/l	76

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122218\
Data File : VD060700.D
Acq On : 22 Dec 2018 10:50
Operator : VA/AP
Sample : VSTDCCC050
Misc : 5.00g/5ml/MSVOA_D/SOIL
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

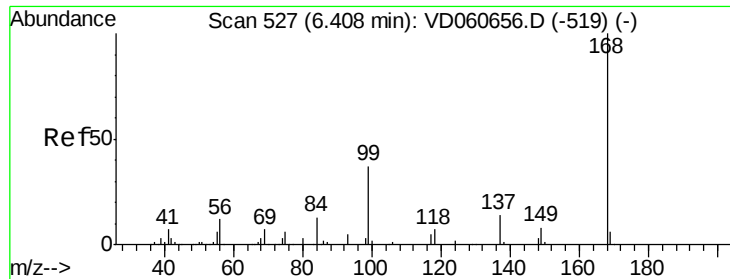
Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM

Quant Time: Dec 24 02:21:47 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
Quant Title : SW846 8260
QLast Update : Fri Dec 21 17:37:47 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.80	180	993465	51.504	ug/l	98
94) Hexachlorobutadiene	14.89	225	732390	51.368	ug/l	97
95) Naphthalene	14.98	128	1128483	49.224	ug/l	99
96) 1,2,3-Trichlorobenzene	15.13	180	789697	52.372	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.45 min Scan# 531

Delta R.T. 0.04 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion:168 Resp: 1579581

Ion Ratio Lower Upper

168 100

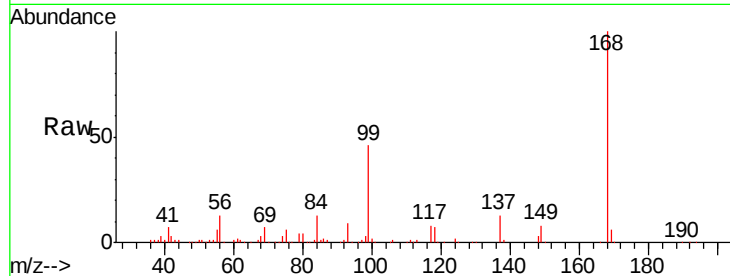
99 46.1 38.7 58.1

Manual Integrations

APPROVED

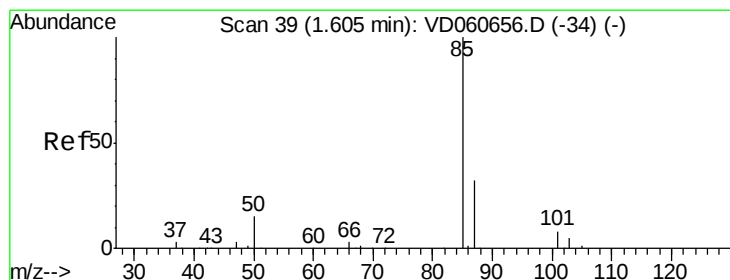
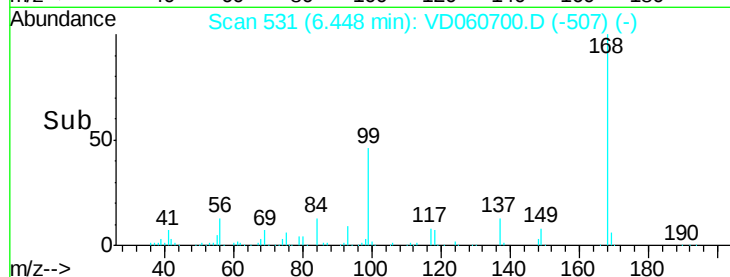
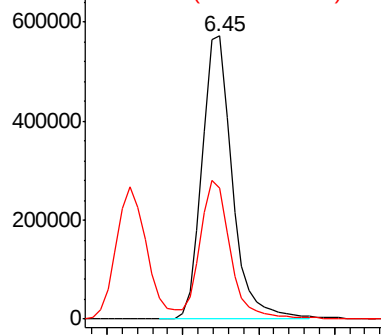
MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 51.324 ug/l

RT: 1.62 min Scan# 40

Delta R.T. 0.01 min

Lab File: VD060700.D

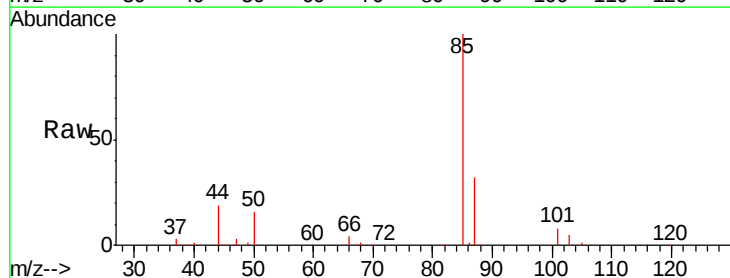
Acq: 22 Dec 2018 10:50

Tgt Ion: 85 Resp: 1035879

Ion Ratio Lower Upper

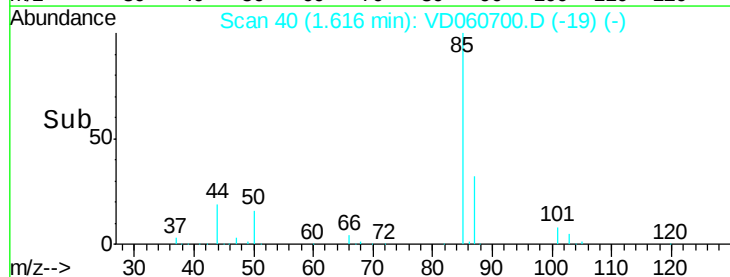
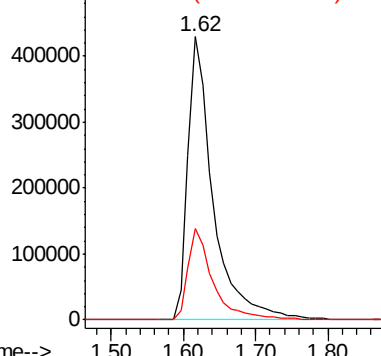
85 100

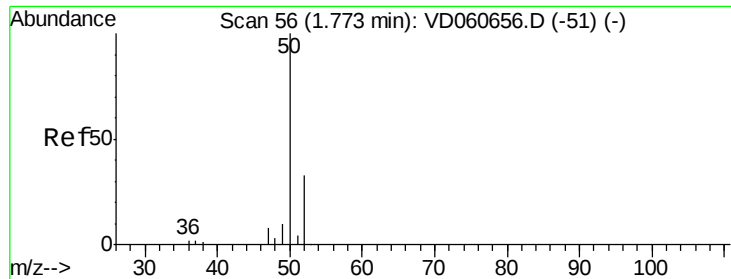
87 32.3 16.0 47.9



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





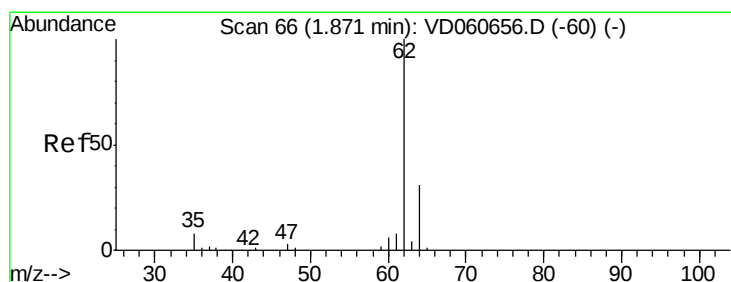
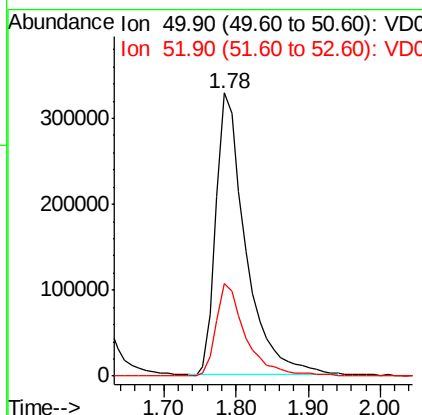
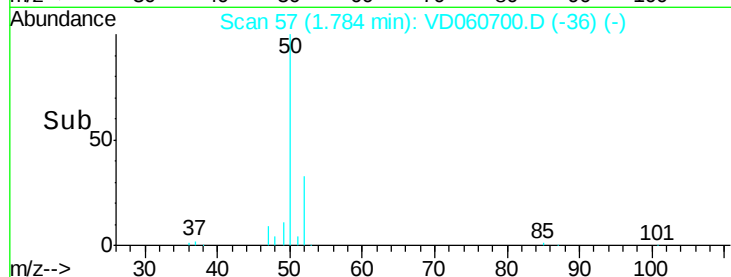
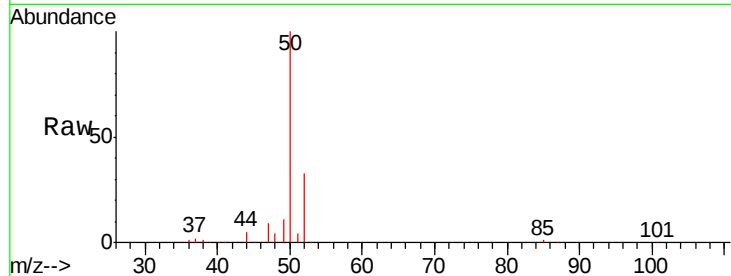
#3
Chloromethane
Concen: 50.477 ug/l
RT: 1.78 min Scan# 57
Delta R.T. 0.01 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 937599
Ion Ratio Lower Upper
50 100
52 32.9 26.6 39.8

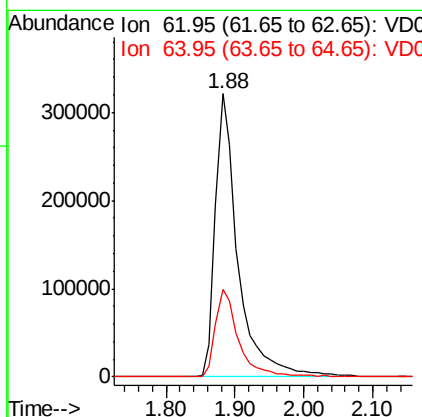
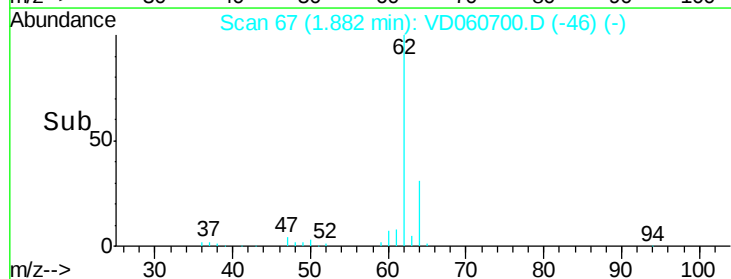
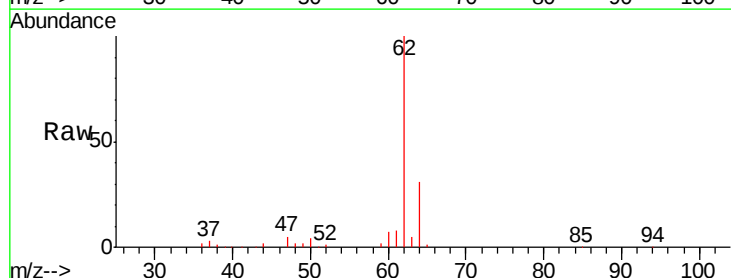
Manual Integrations
APPROVED

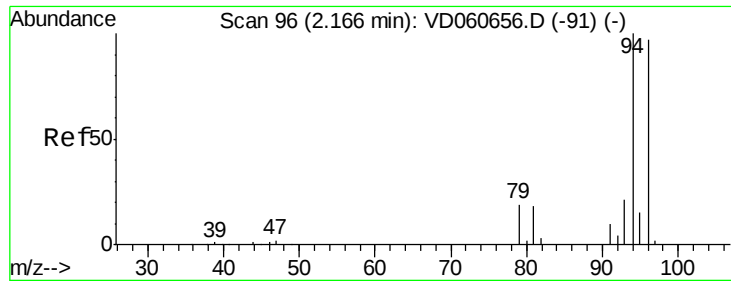
MMDadoda
12/26/2018 11:04:06 AM



#4
Vinyl Chloride
Concen: 49.550 ug/l
RT: 1.88 min Scan# 67
Delta R.T. 0.01 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 62 Resp: 730728
Ion Ratio Lower Upper
62 100
64 31.1 25.0 37.6





#5

Bromomethane

Concen: 64.353 ug/l

RT: 2.19 min Scan# 98

Delta R.T. 0.02 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 94 Resp: 212585

Ion Ratio Lower Upper

94 100

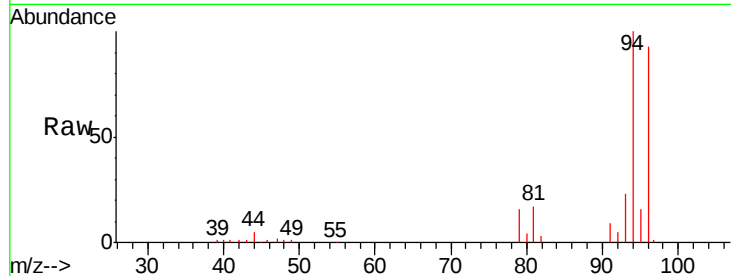
96 93.2 77.2 115.8

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.19

60000

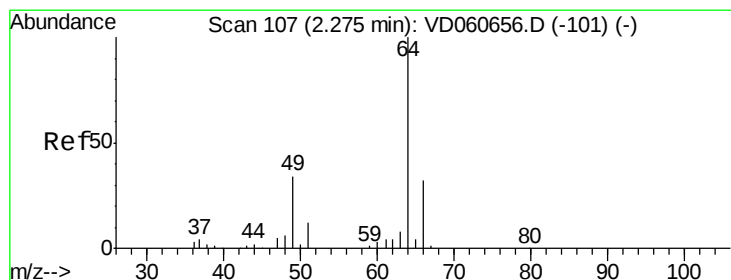
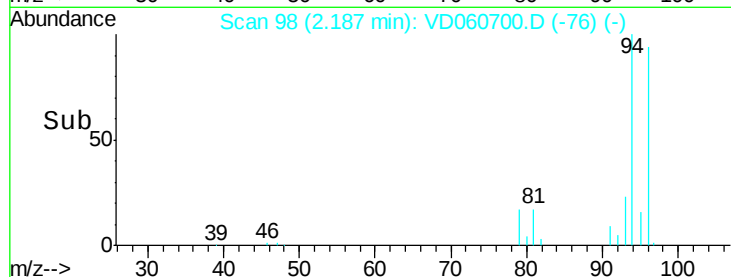
40000

20000

0

Time-->

2.10 2.20 2.30 2.40



#6

Chloroethane

Concen: 60.025 ug/l

RT: 2.30 min Scan# 109

Delta R.T. 0.02 min

Lab File: VD060700.D

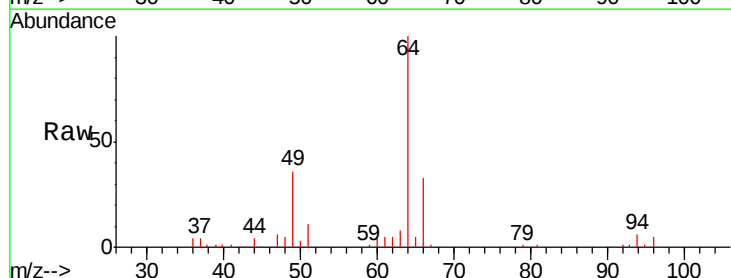
Acq: 22 Dec 2018 10:50

Tgt Ion: 64 Resp: 264173

Ion Ratio Lower Upper

64 100

66 32.6 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

2.30

100000

80000

60000

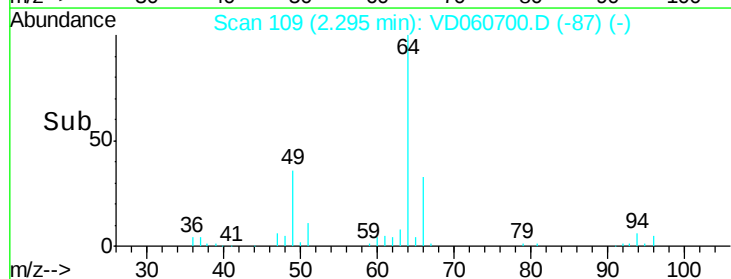
40000

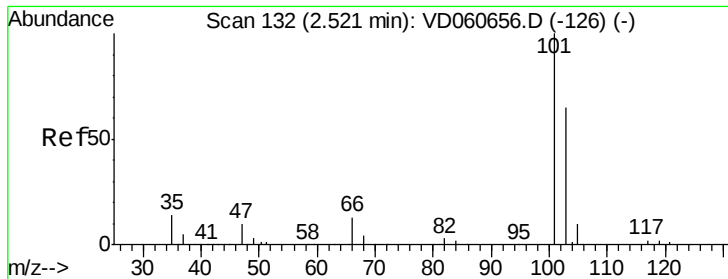
20000

0

Time-->

2.20 2.30 2.40 2.50





#7

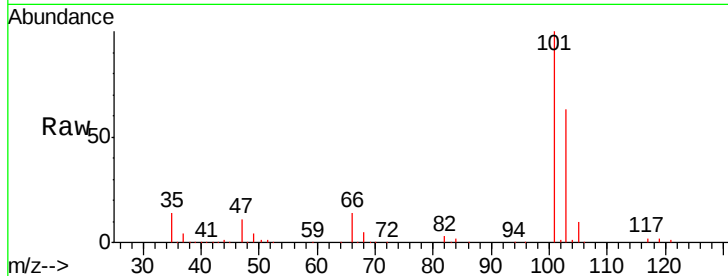
Trichlorofluoromethane
Concen: 53.167 ug/l
RT: 2.54 min Scan# 134
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

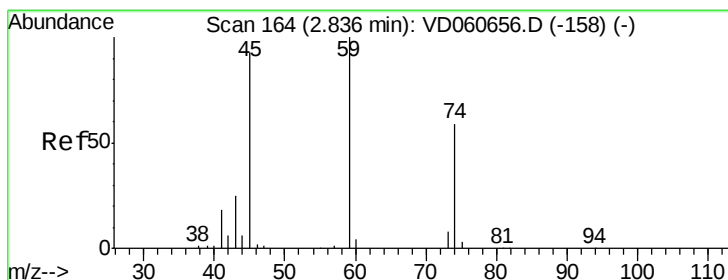
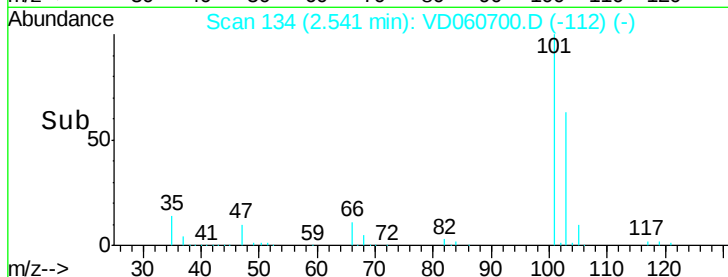
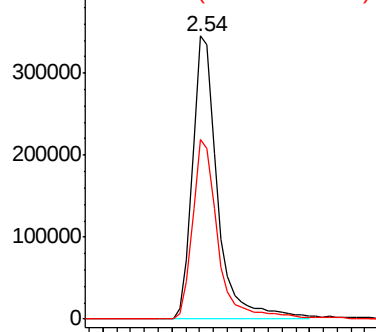
Tgt Ion: 101 Resp: 872112
Ion Ratio Lower Upper
101 100
103 63.4 51.9 77.9

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



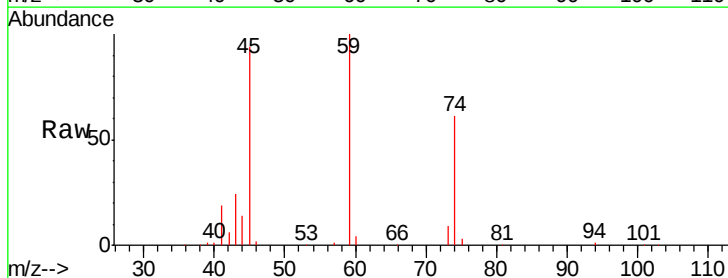
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



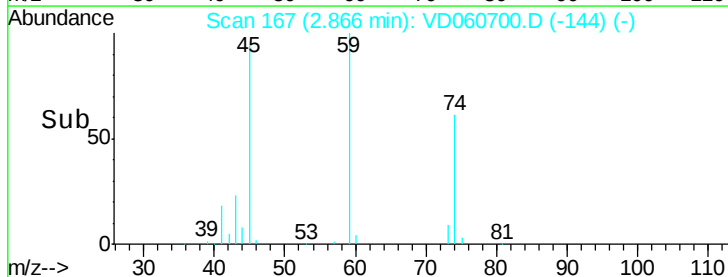
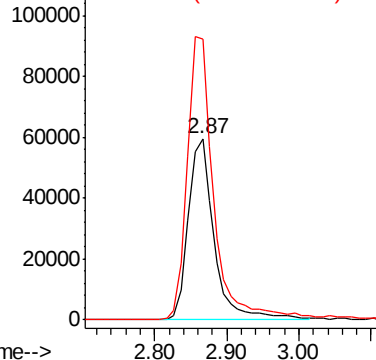
#8

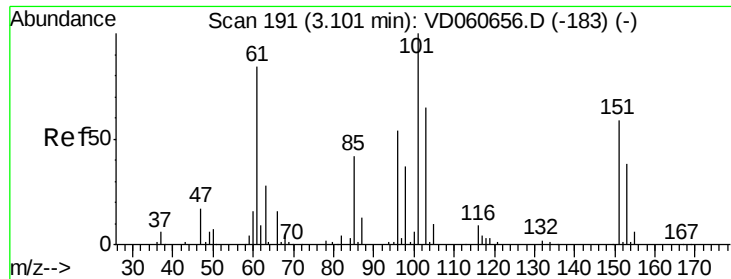
Diethyl Ether
Concen: 53.725 ug/l
RT: 2.87 min Scan# 167
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 74 Resp: 147439
Ion Ratio Lower Upper
74 100
45 154.9 79.3 238.1



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 51.828 ug/l

RT: 3.13 min Scan# 194

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

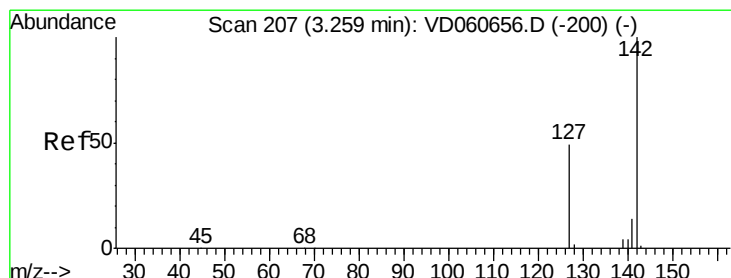
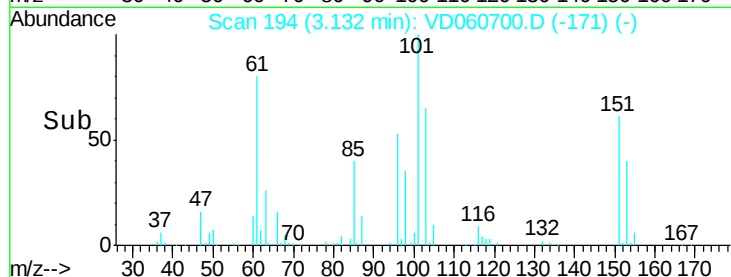
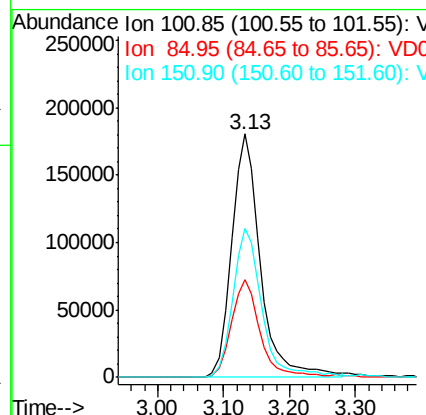
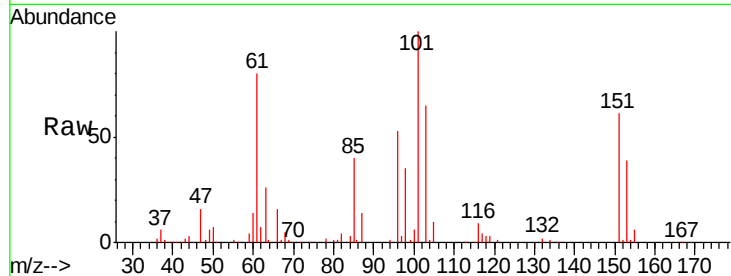
ClientSampleId :

VSTDCCC050

Tgt Ion:	101	Resp:	551453
Ion Ratio	Lower	Upper	
101	100		
85	40.3	33.4	50.0
151	61.0	47.5	71.3

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



#10

Methyl Iodide

Concen: 57.408 ug/l

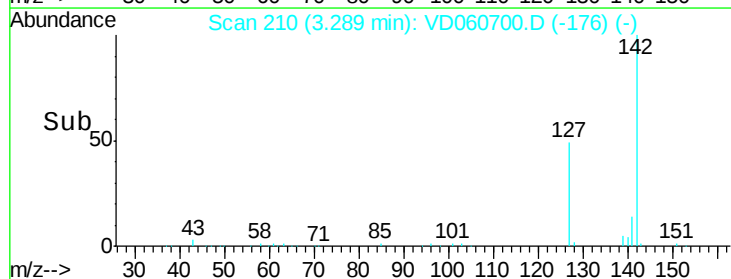
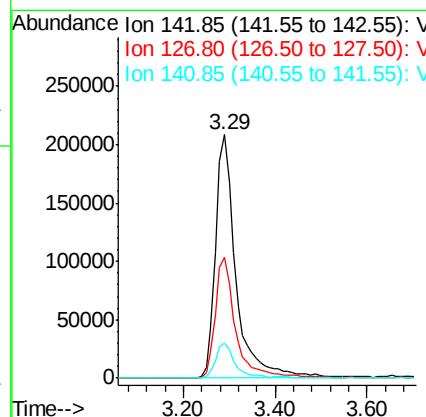
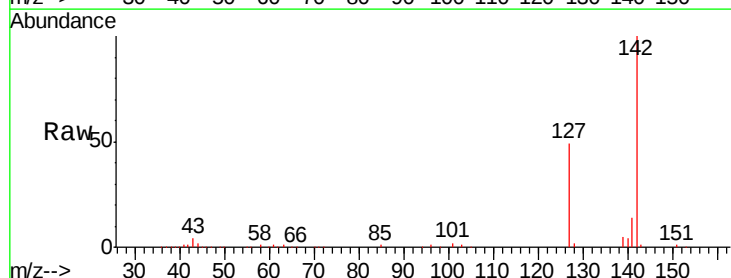
RT: 3.29 min Scan# 210

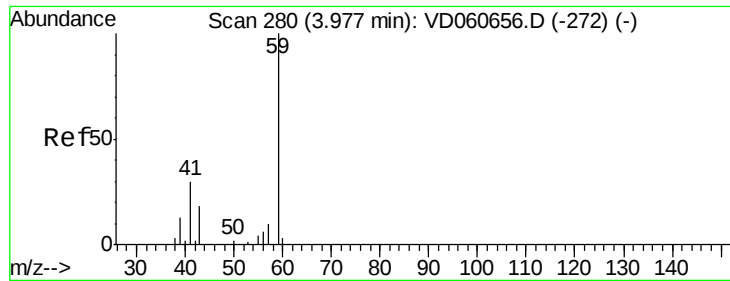
Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Tgt Ion:	142	Resp:	641951
Ion Ratio	Lower	Upper	
142	100		
127	49.3	39.5	59.3
141	14.4	11.3	16.9





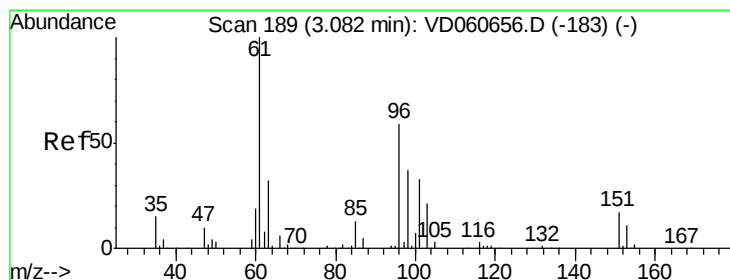
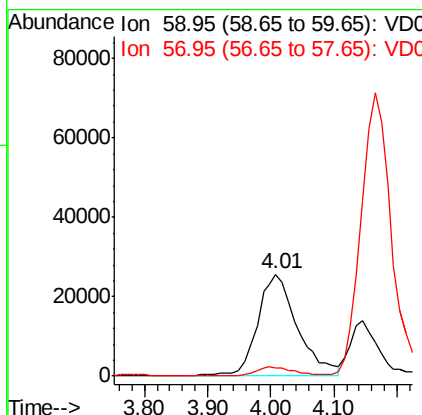
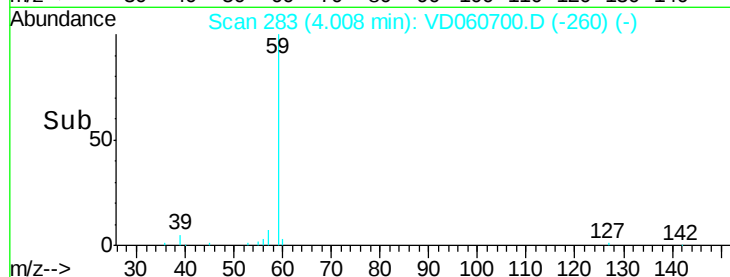
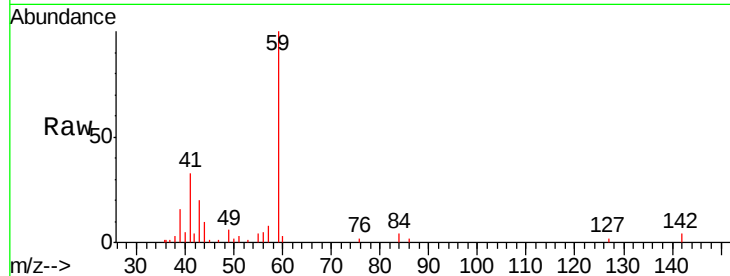
#11
Tert butyl alcohol
Concen: 247.141 ug/l
RT: 4.01 min Scan# 283
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 112747
Ion Ratio Lower Upper
59 100
57 7.8 7.8 11.6

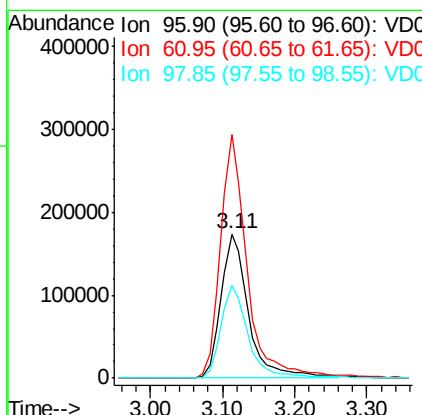
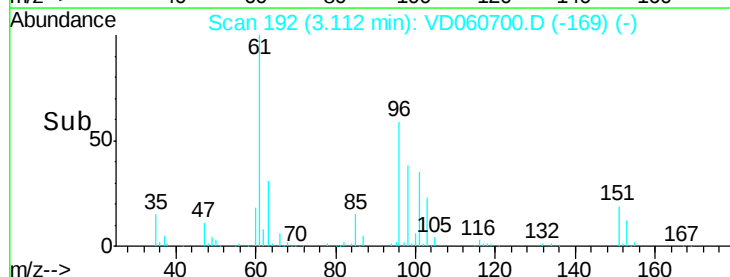
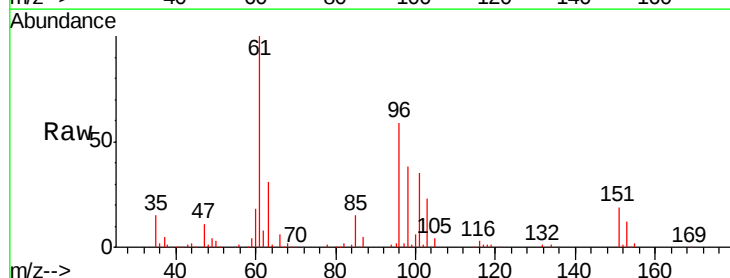
Manual Integrations
APPROVED

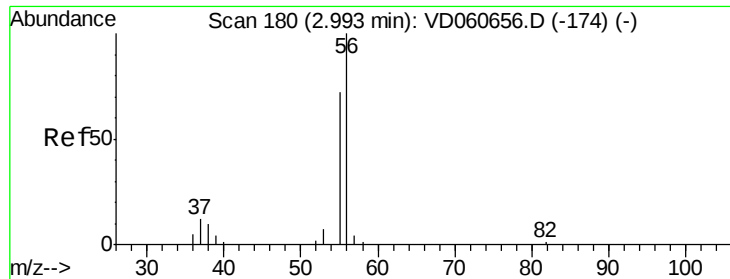
MMDadoda
12/26/2018 11:04:06 AM



#12
1,1-Dichloroethene
Concen: 52.714 ug/l
RT: 3.11 min Scan# 192
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 96 Resp: 460853
Ion Ratio Lower Upper
96 100
61 168.7 136.2 204.4
98 64.4 50.7 76.1





#13

Acrolein

Concen: 224.389 ug/l

RT: 3.02 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 104317

Ion Ratio Lower Upper

56 100

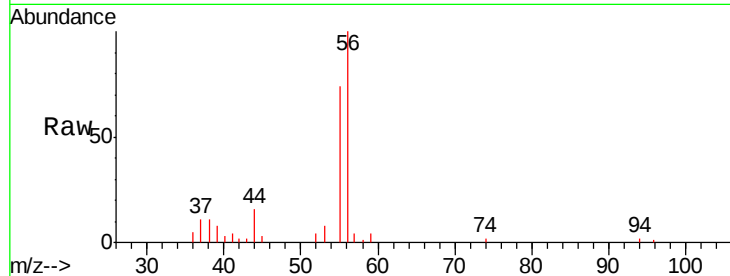
55 73.7 57.7 86.5

Manual Integrations

APPROVED

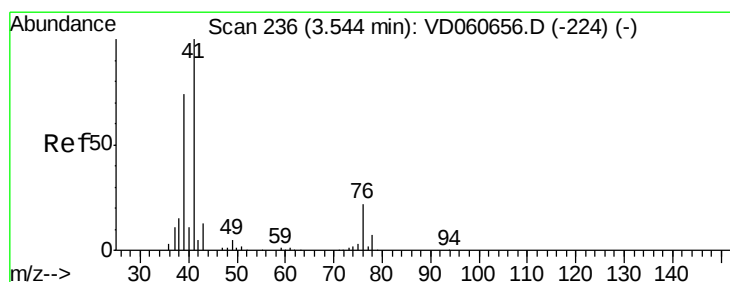
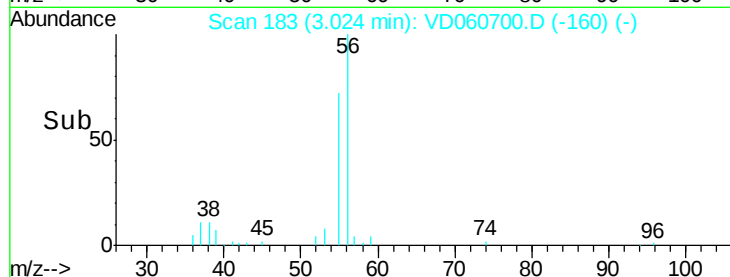
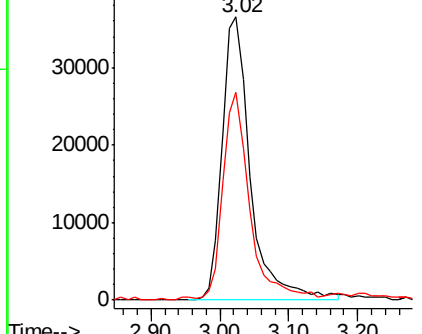
MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 51.028 ug/l

RT: 3.57 min Scan# 239

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

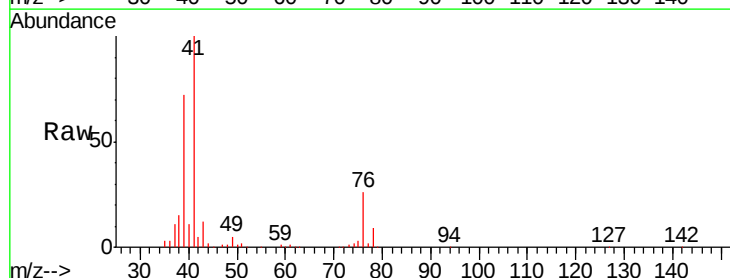
Tgt Ion: 41 Resp: 818592

Ion Ratio Lower Upper

41 100

39 72.2 59.6 89.4

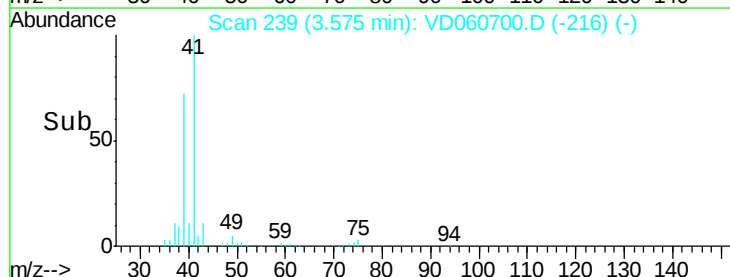
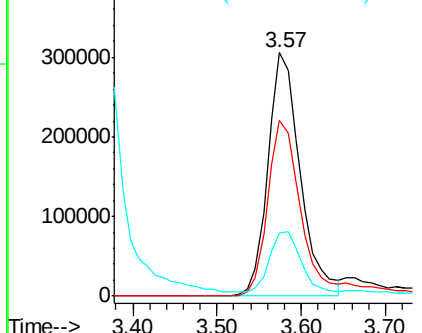
76 25.9 21.8 32.6

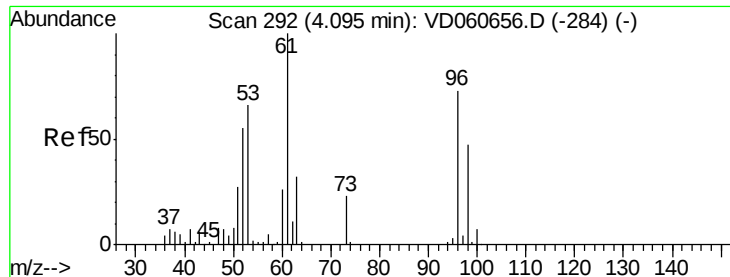


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 236.936 ug/l

RT: 4.13 min Scan# 295

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

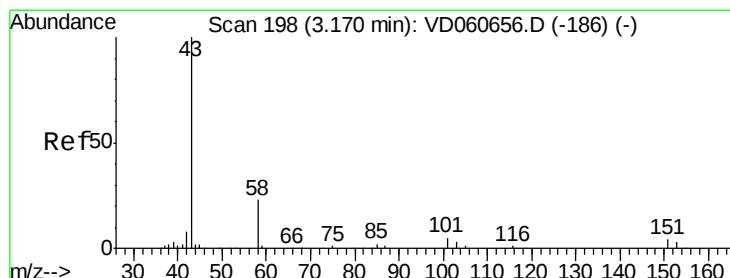
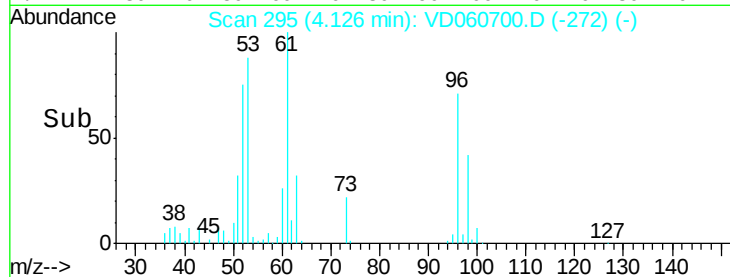
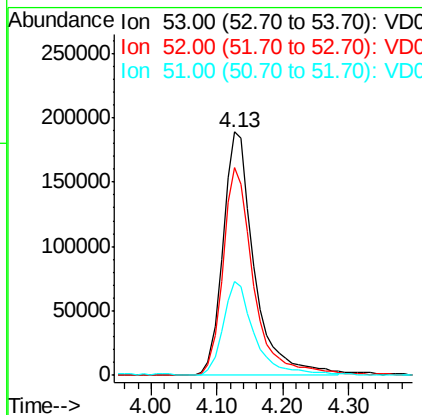
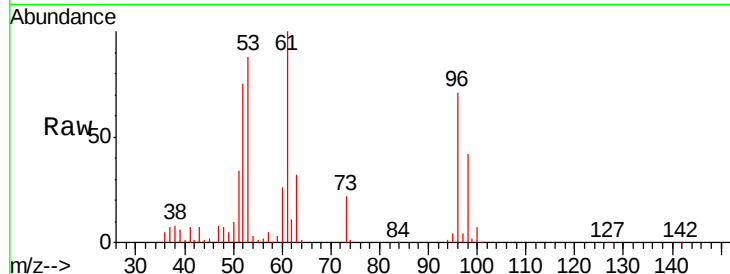
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	627538
Ion Ratio	Lower	Upper	
53	100		
52	85.2	66.7	100.1
51	38.3	32.7	49.1

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



#16

Acetone

Concen: 272.954 ug/l

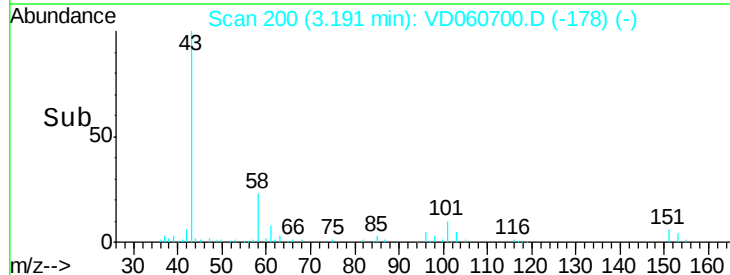
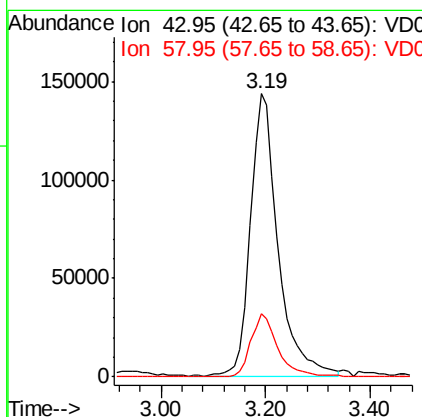
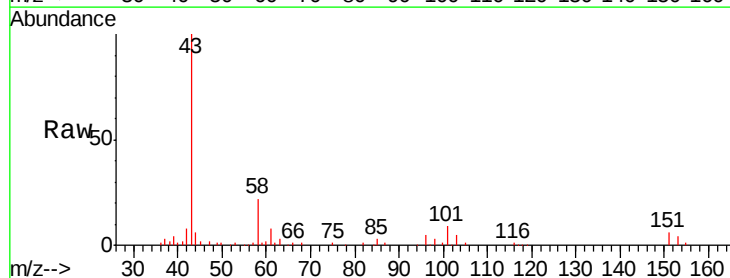
RT: 3.19 min Scan# 200

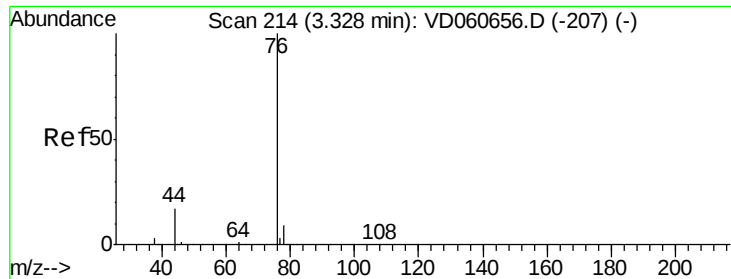
Delta R.T. 0.02 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Tgt Ion:	43	Resp:	520341
Ion Ratio	Lower	Upper	
43	100		
58	22.5	18.2	27.2





#17

Carbon Disulfide

Concen: 51.875 ug/l

RT: 3.36 min Scan# 217

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 1448392

Ion Ratio Lower Upper

76 100

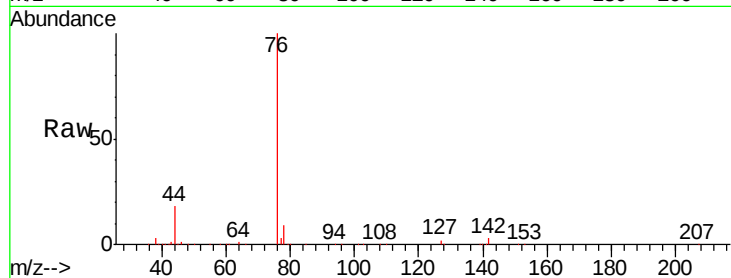
78 8.6 7.4 11.0

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.36

600000

500000

400000

300000

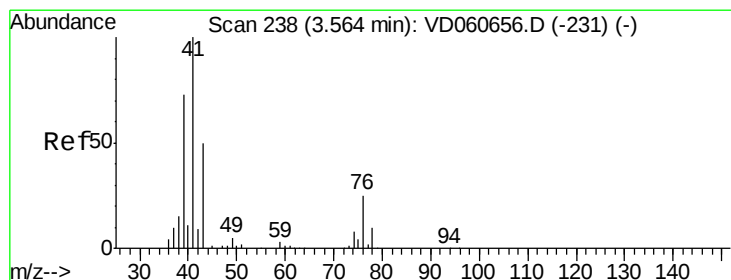
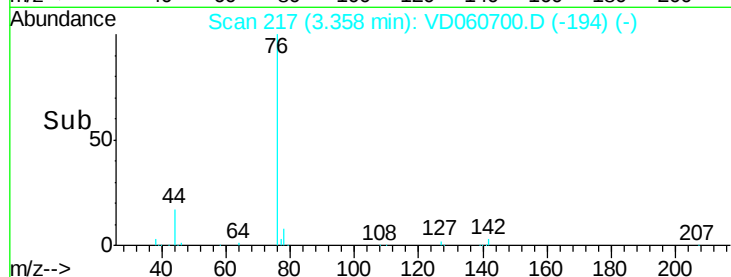
200000

100000

0

3.20 3.30 3.40 3.50

Time-->



#18

Methyl Acetate

Concen: 50.984 ug/l

RT: 3.59 min Scan# 241

Delta R.T. 0.03 min

Lab File: VD060700.D

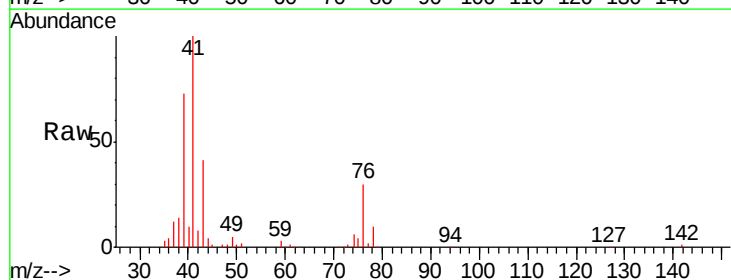
Acq: 22 Dec 2018 10:50

Tgt Ion: 43 Resp: 240873

Ion Ratio Lower Upper

43 100

74 15.7 12.4 18.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.59

80000

60000

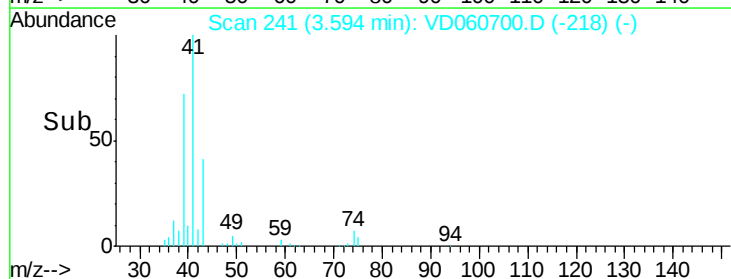
40000

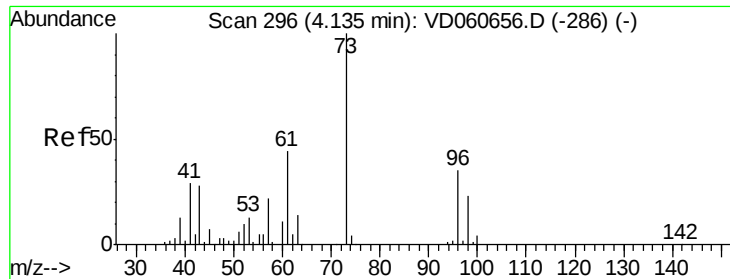
20000

0

3.50 3.60 3.70

Time-->





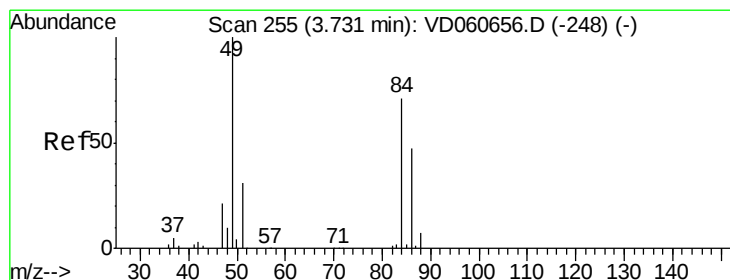
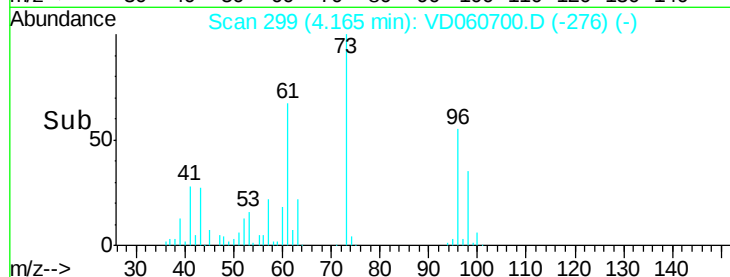
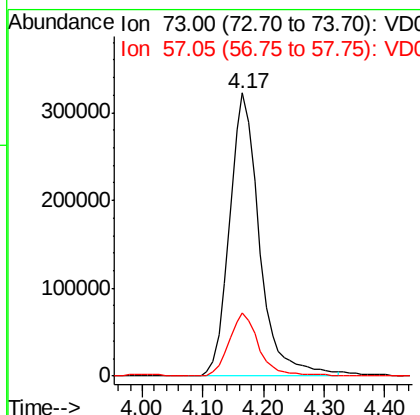
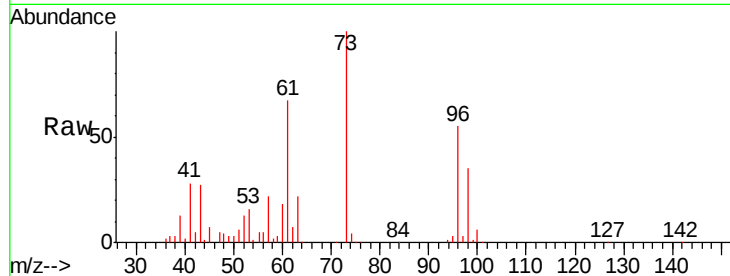
#19
Methyl tert-butyl Ether
Concen: 49.948 ug/l
RT: 4.17 min Scan# 299
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 1107869
Ion Ratio Lower Upper
73 100
57 22.1 17.6 26.4

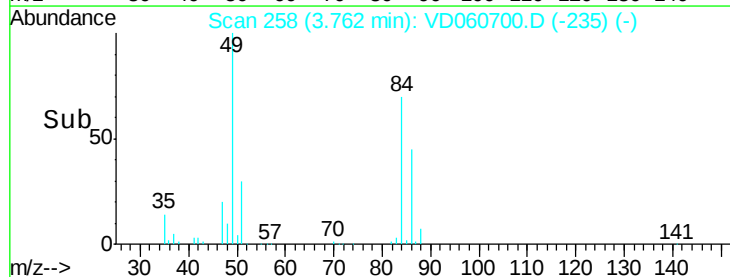
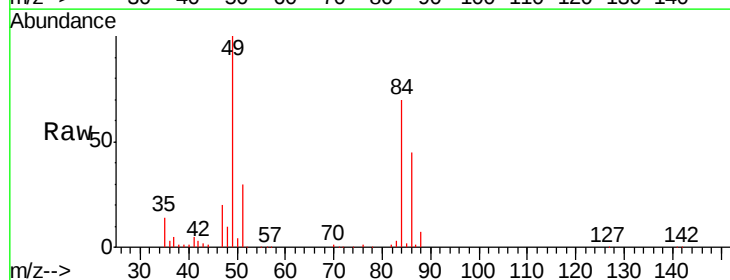
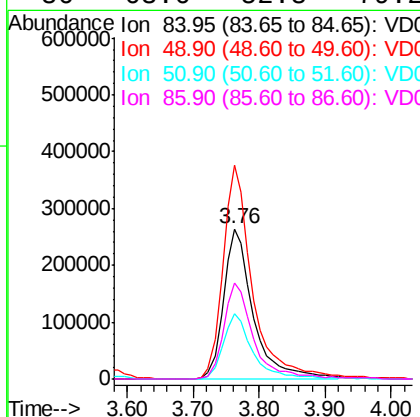
Manual Integrations
APPROVED

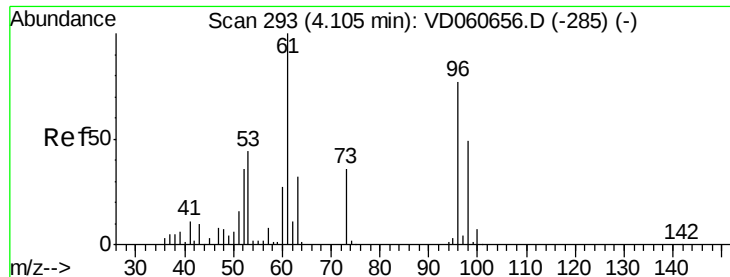
MMDadoda
12/26/2018 11:04:06 AM



#20
Methylene Chloride
Concen: 41.837 ug/l
RT: 3.76 min Scan# 258
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 84 Resp: 828277
Ion Ratio Lower Upper
84 100
49 142.3 113.6 170.4
51 43.3 34.7 52.1
86 63.6 52.8 79.2





#21

trans-1,2-Dichloroethene

Concen: 50.685 ug/l

RT: 4.15 min Scan# 297

Delta R.T. 0.04 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 907477
Ion Ratio Lower Upper

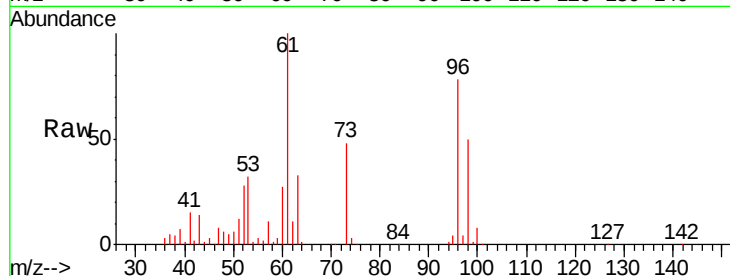
96 100

61 128.1 104.2 156.2

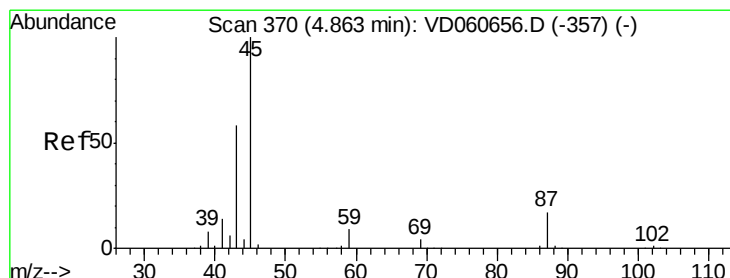
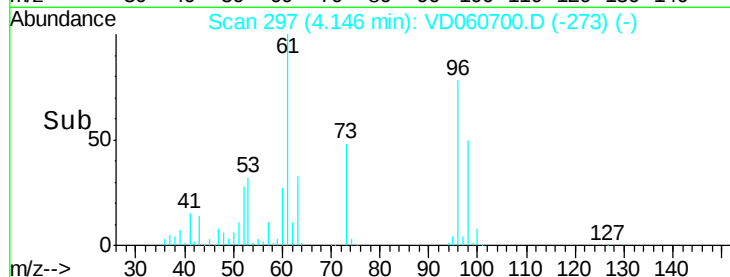
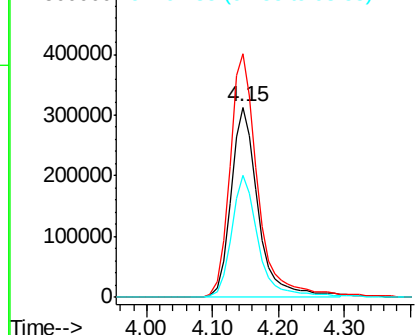
98 64.1 51.2 76.8

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 50.601 ug/l

RT: 4.89 min Scan# 373

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

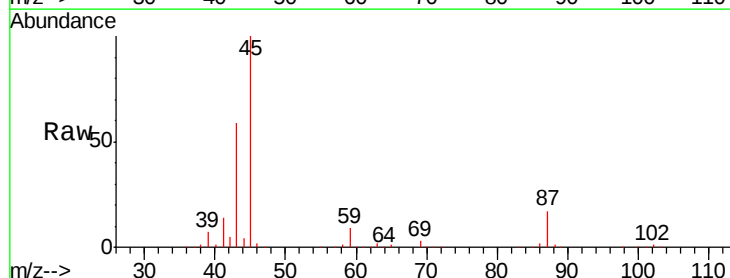
Tgt Ion: 45 Resp: 2756123
Ion Ratio Lower Upper

45 100

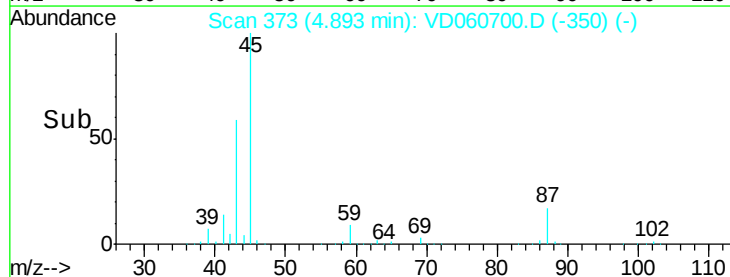
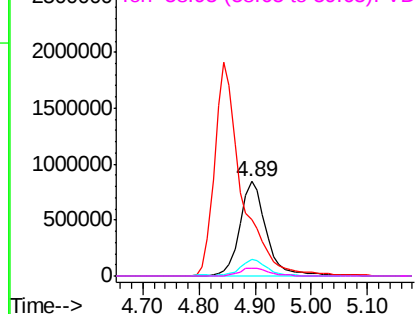
43 59.3 46.1 69.1

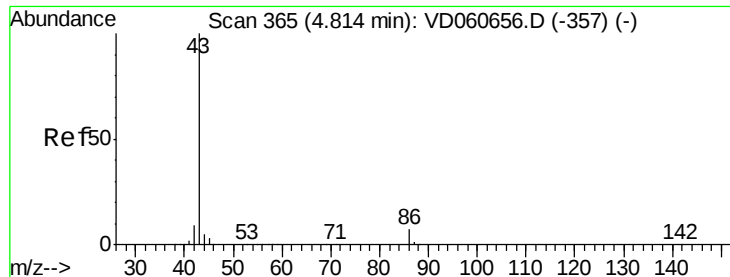
87 17.2 13.7 20.5

59 8.8 7.4 11.0



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 243.400 ug/l

RT: 4.84 min Scan# 368

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 6413933

Ion Ratio Lower Upper

43 100

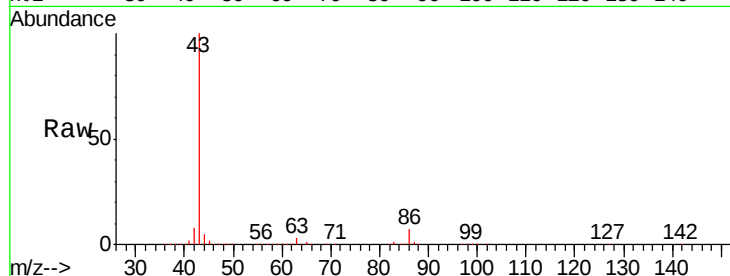
86 7.0 5.6 8.4

Manual Integrations

APPROVED

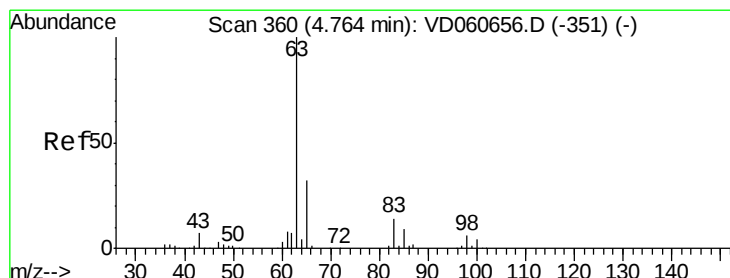
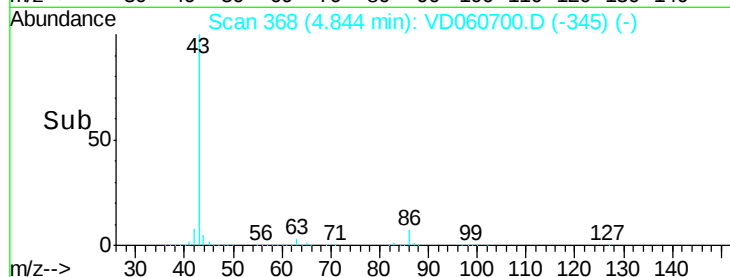
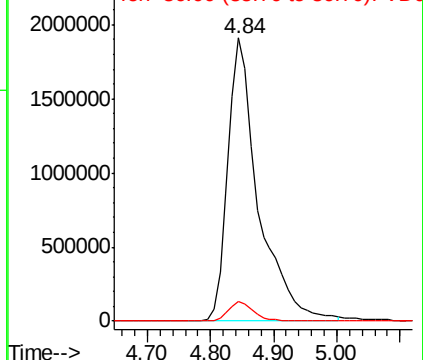
MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 51.153 ug/l

RT: 4.80 min Scan# 363

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

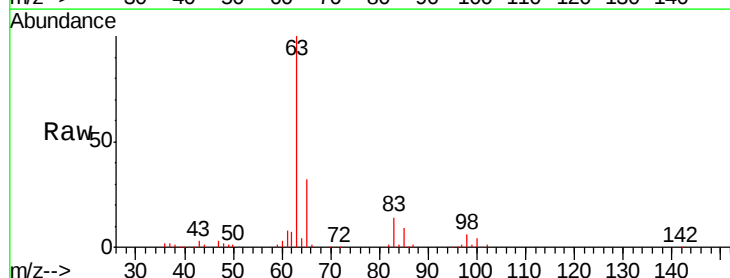
Tgt Ion: 63 Resp: 1465511

Ion Ratio Lower Upper

63 100

98 5.5 2.9 8.7

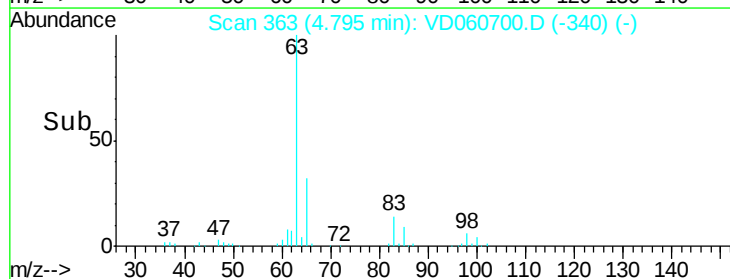
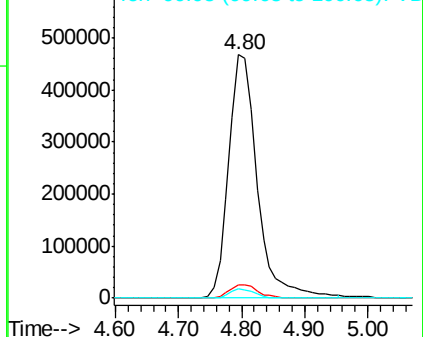
100 3.6 2.0 5.8

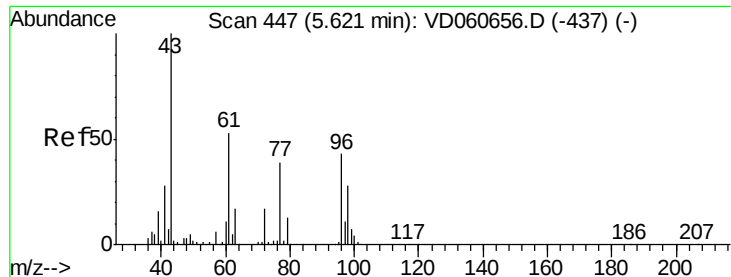


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 248.303 ug/l

RT: 5.66 min Scan# 451

Delta R.T. 0.04 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 905786

Ion Ratio Lower Upper

43 100

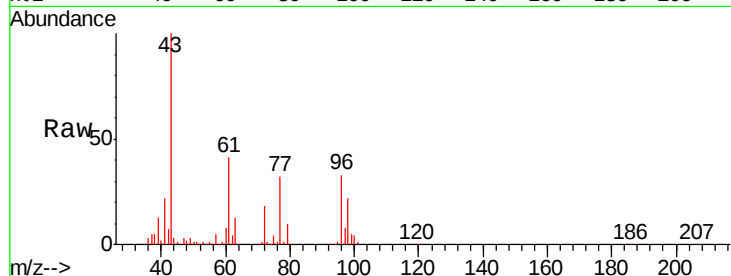
72 17.8 13.7 20.5

Manual Integrations

APPROVED

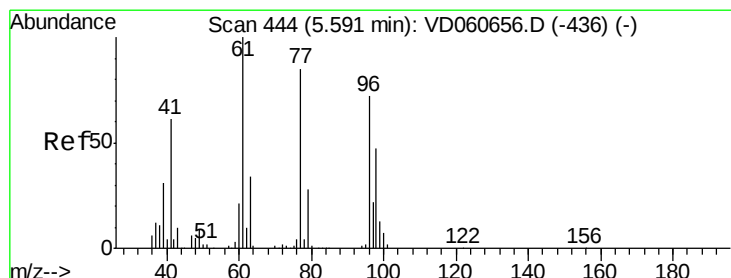
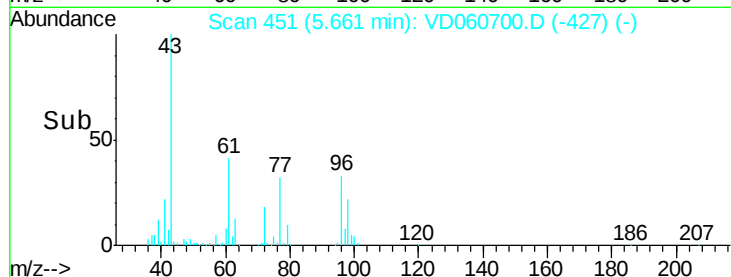
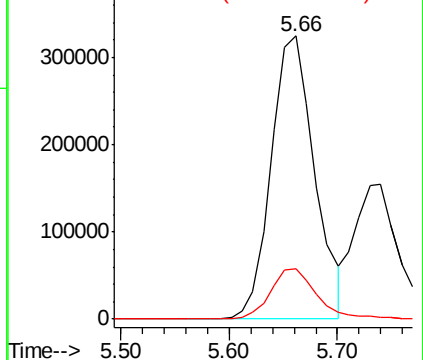
MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 51.651 ug/l

RT: 5.63 min Scan# 448

Delta R.T. 0.04 min

Lab File: VD060700.D

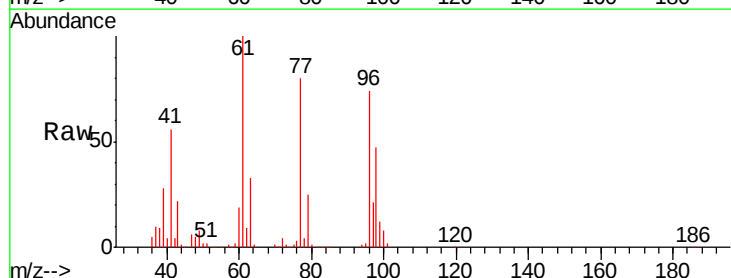
Acq: 22 Dec 2018 10:50

Tgt Ion: 77 Resp: 1168075

Ion Ratio Lower Upper

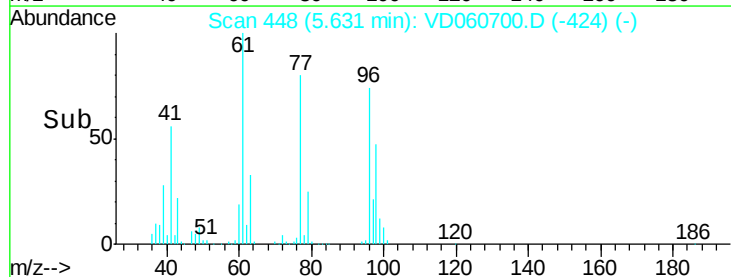
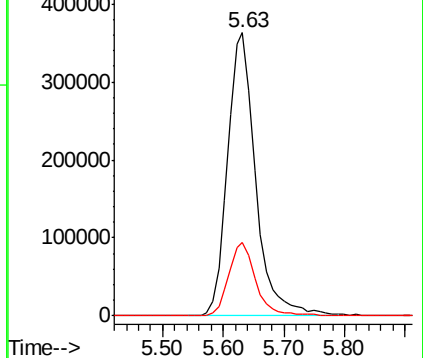
77 100

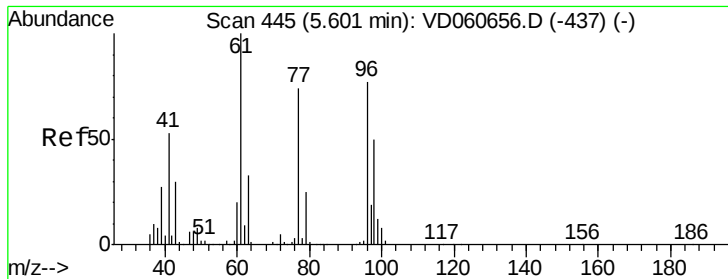
97 26.1 13.0 39.0



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC





#27

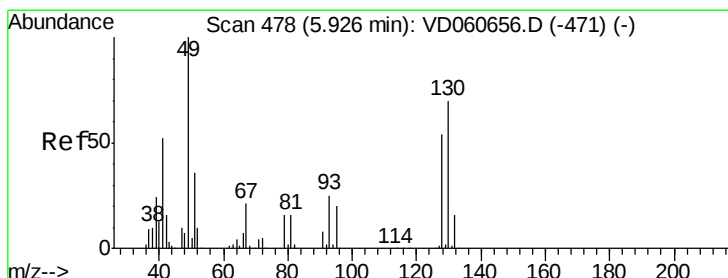
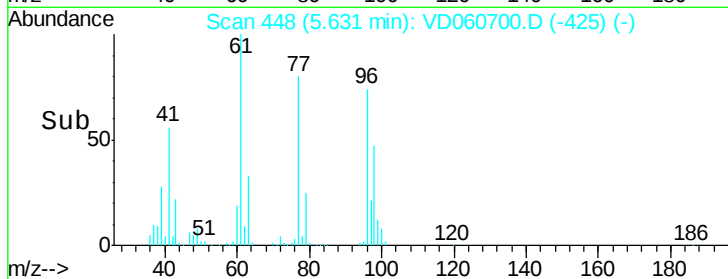
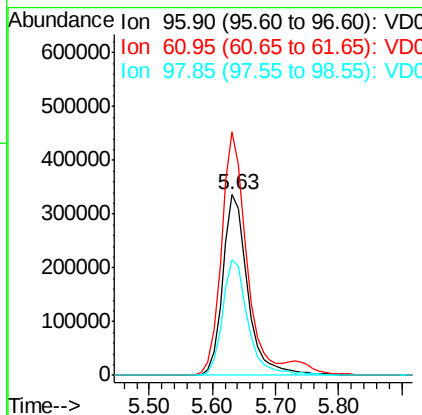
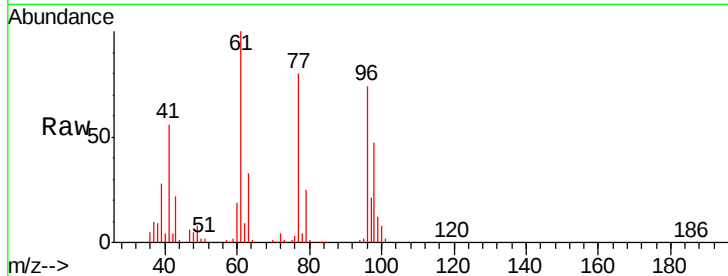
cis-1,2-Dichloroethene
 Concen: 50.875 ug/l
 RT: 5.63 min Scan# 448
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	924661		
61	134.9	0.0	259.4	
98	63.9	0.0	130.0	

Manual Integrations
 APPROVED

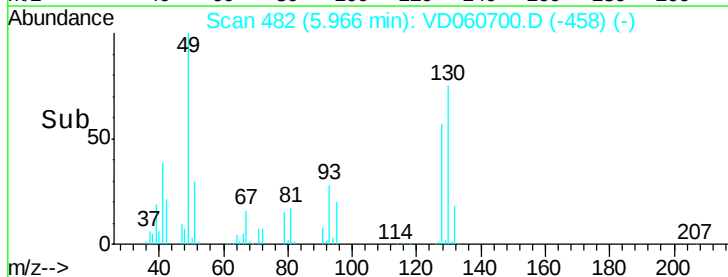
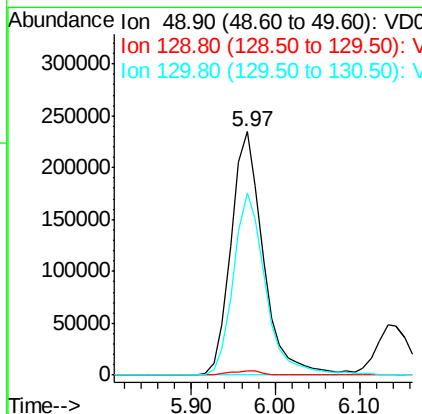
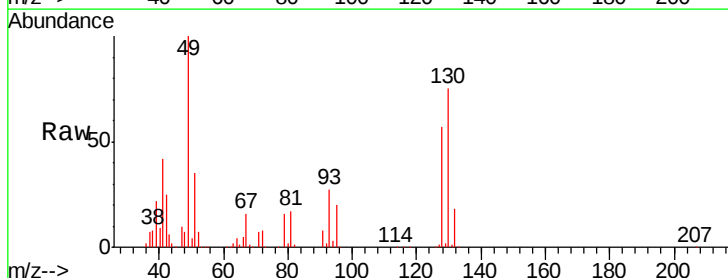
MMDadoda
 12/26/2018 11:04:06 AM

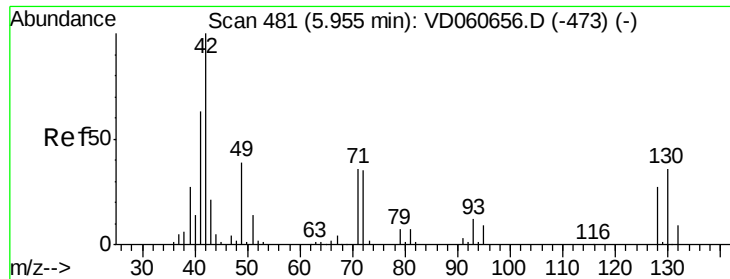


#28

Bromochloromethane
 Concen: 51.699 ug/l
 RT: 5.97 min Scan# 482
 Delta R.T. 0.04 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	625725		
129	1.8	0.0	3.4	
130	74.9	56.2	84.2	





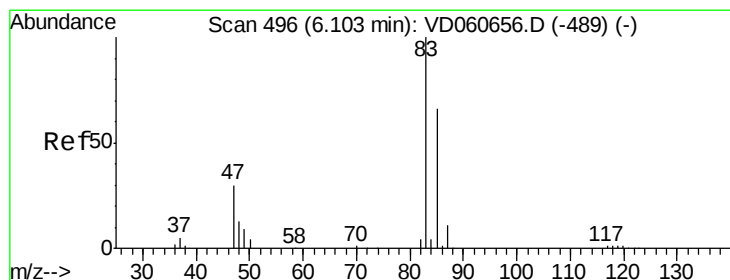
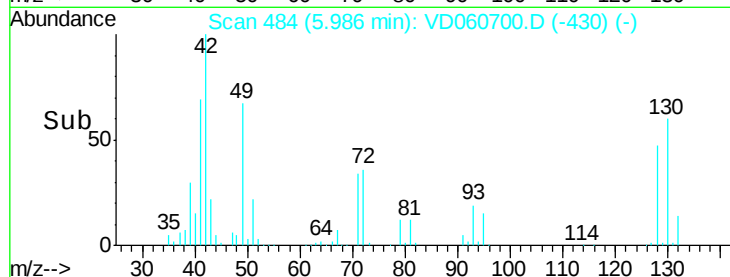
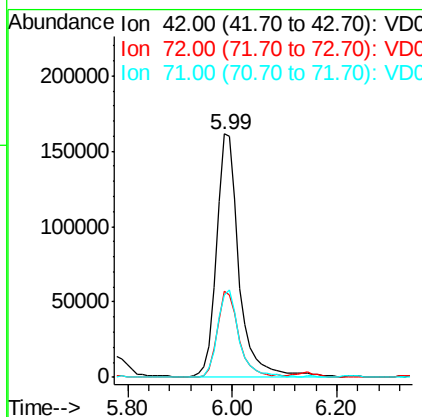
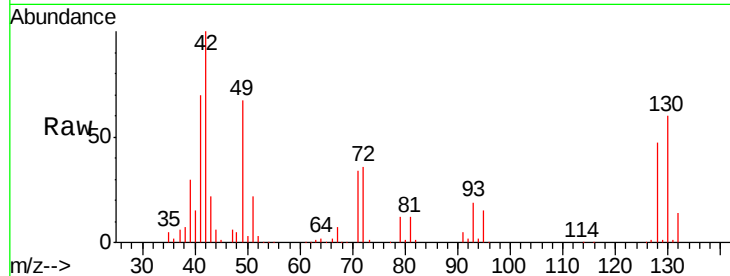
#29
Tetrahydrofuran
Concen: 232.672 ug/l
RT: 5.99 min Scan# 484
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 42 Resp: 481165
Ion Ratio Lower Upper
42 100
72 34.4 28.0 42.0
71 34.4 27.0 40.6

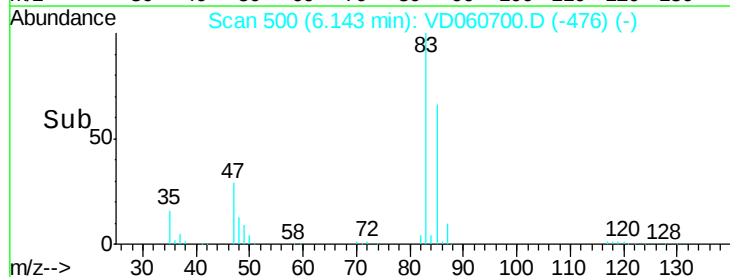
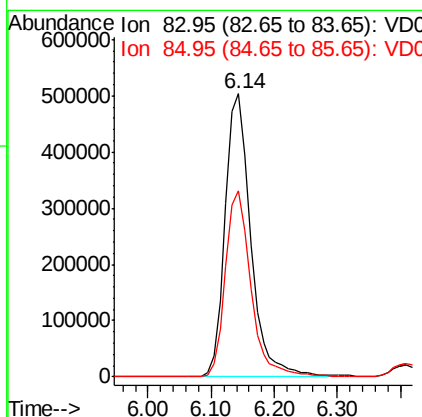
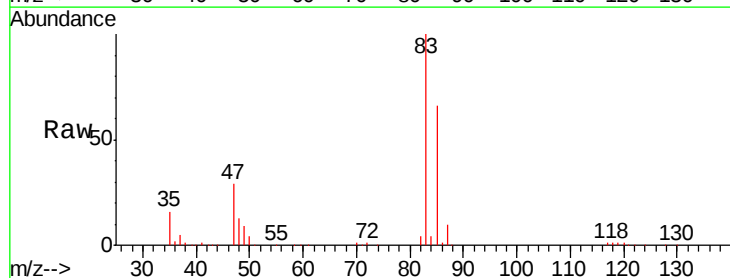
Manual Integrations
APPROVED

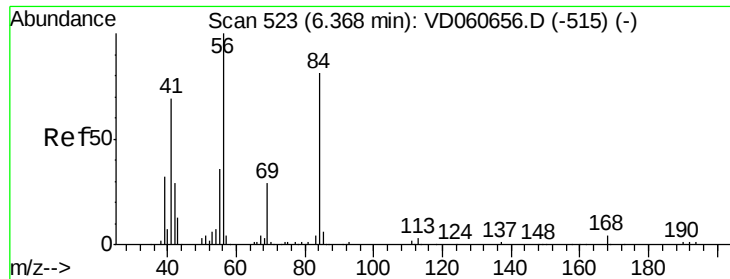
MMDadoda
12/26/2018 11:04:06 AM



#30
Chloroform
Concen: 49.333 ug/l
RT: 6.14 min Scan# 500
Delta R.T. 0.04 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 83 Resp: 1422168
Ion Ratio Lower Upper
83 100
85 65.6 53.0 79.6





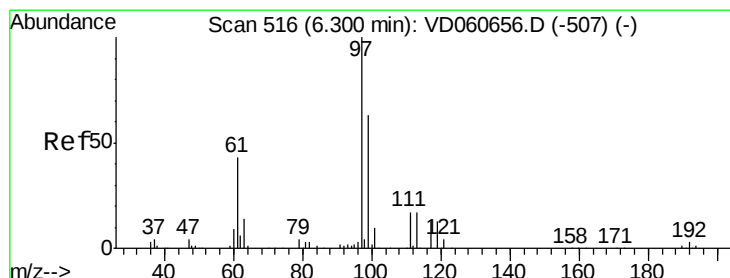
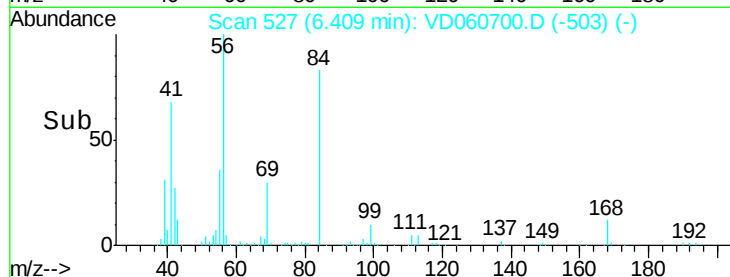
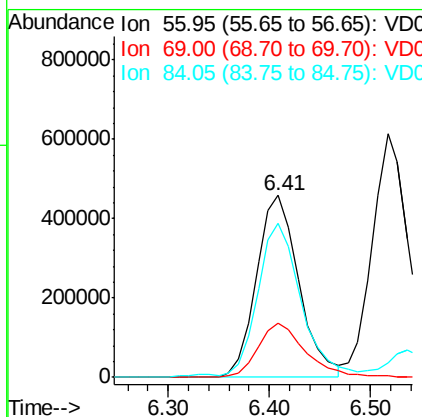
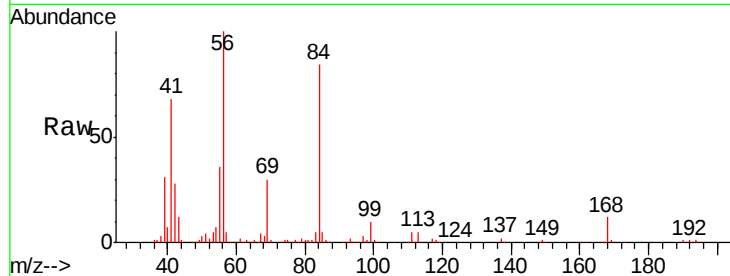
#31
Cyclohexane
Concen: 48.525 ug/l
RT: 6.41 min Scan# 527
Delta R.T. 0.04 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 1337853
Ion Ratio Lower Upper
56 100
69 30.1 23.6 35.4
84 84.4 65.8 98.6

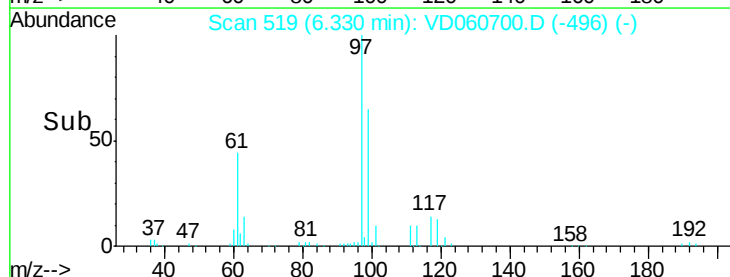
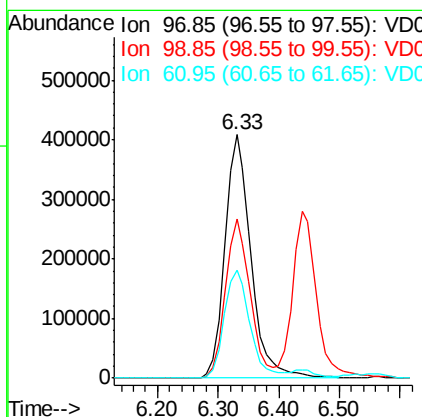
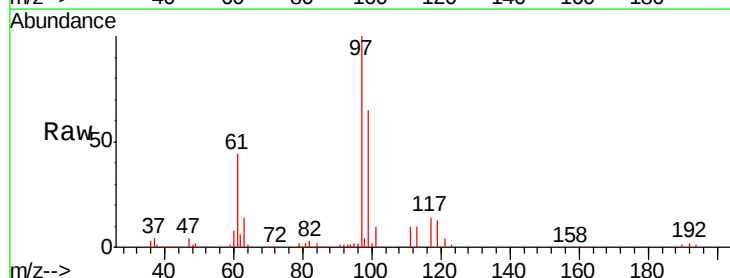
Manual Integrations
APPROVED

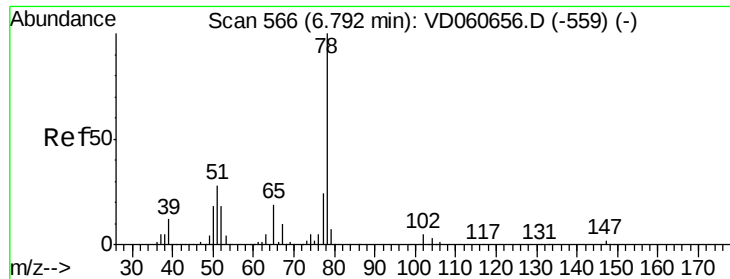
MMDadoda
12/26/2018 11:04:06 AM



#32
1,1,1-Trichloroethane
Concen: 50.766 ug/l
RT: 6.33 min Scan# 519
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 97 Resp: 1210773
Ion Ratio Lower Upper
97 100
99 65.2 50.5 75.7
61 44.5 34.6 51.8





#33

1,2-Dichloroethane-d4

Concen: 50.766 ug/l

RT: 6.82 min Scan# 569

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Tgt Ion: 65 Resp: 475665

Ion Ratio Lower Upper

65 100

67 53.0 0.0 105.4

Instrument :

MSVOA_D

ClientSampleId :

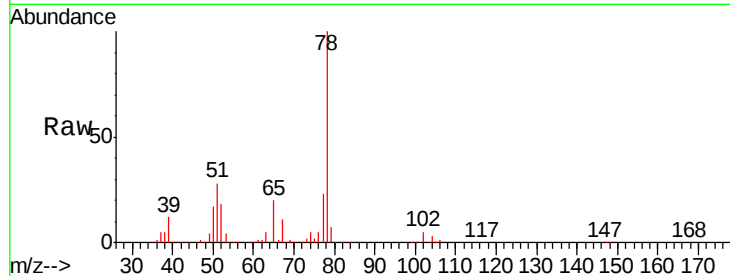
VSTDCCC050

Manual Integrations

APPROVED

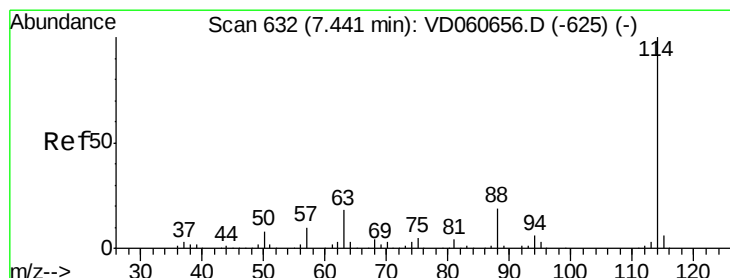
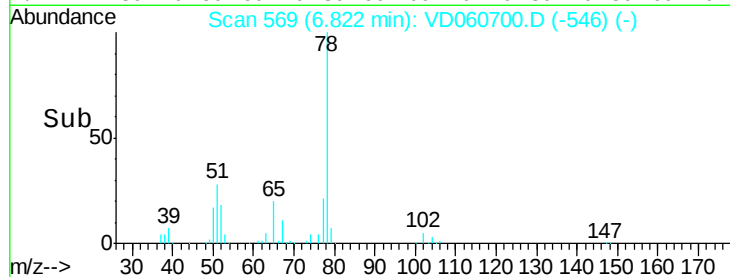
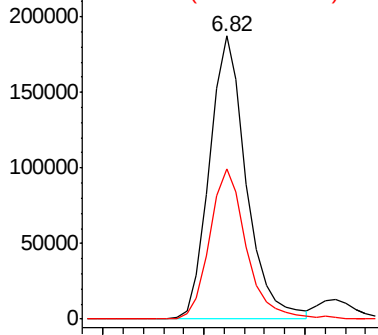
MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.48 min Scan# 636

Delta R.T. 0.04 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

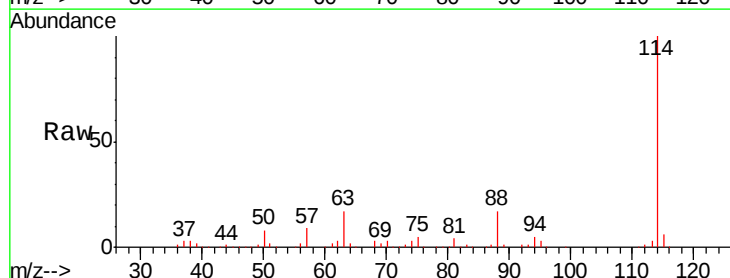
Tgt Ion: 114 Resp: 2215669

Ion Ratio Lower Upper

114 100

63 17.1 0.0 36.2

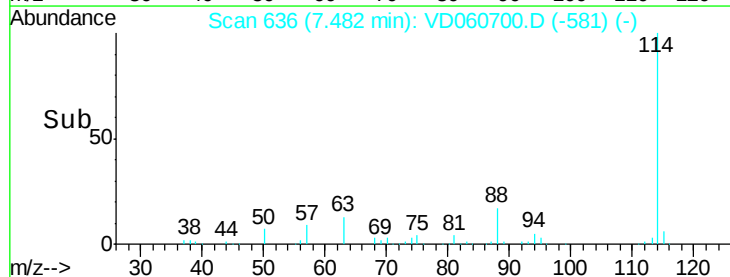
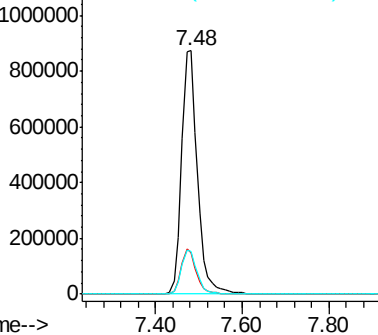
88 17.3 0.0 37.0

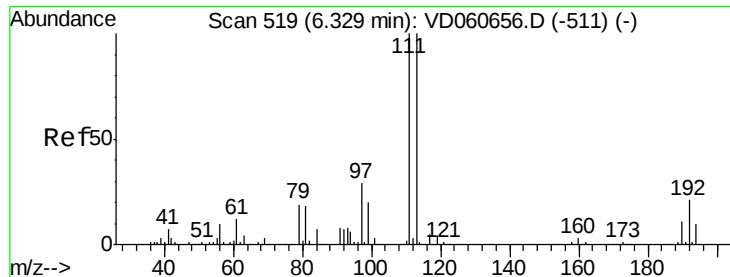


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





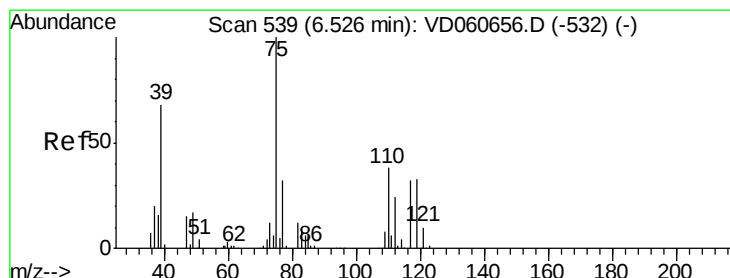
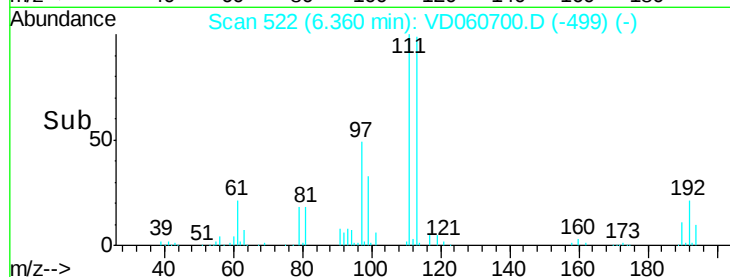
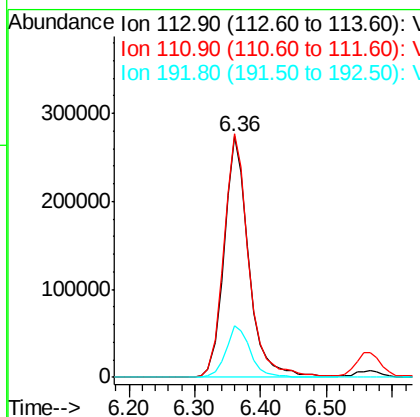
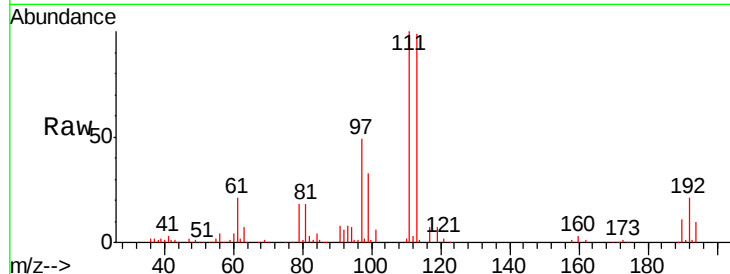
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.36 min Scan# 522
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	713745		
111	101.1	80.0	120.0	
192	21.2	16.6	25.0	

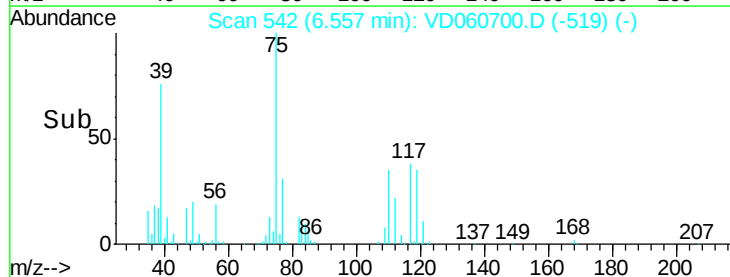
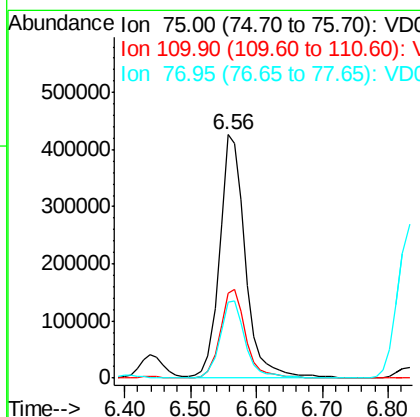
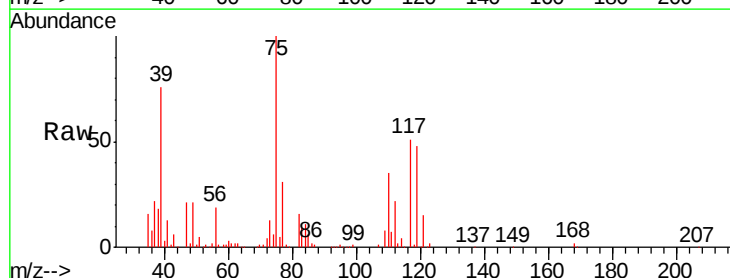
Manual Integrations
APPROVED

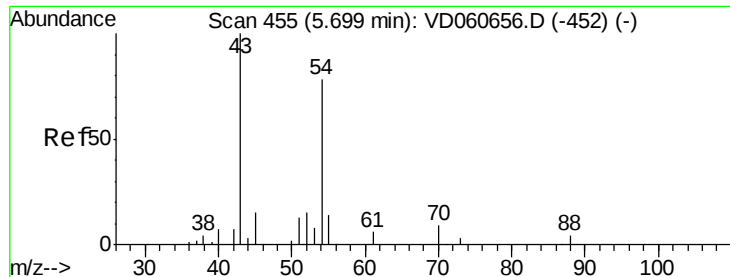
MMDadoda
12/26/2018 11:04:06 AM



#36
1,1-Dichloropropene
Concen: 50.149 ug/l
RT: 6.56 min Scan# 542
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	1144160		
110	35.0	18.9	56.7	
77	31.1	25.4	38.0	





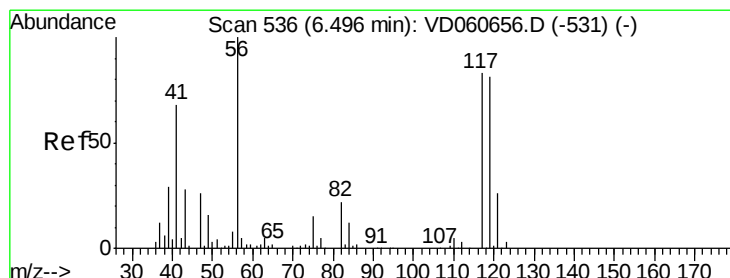
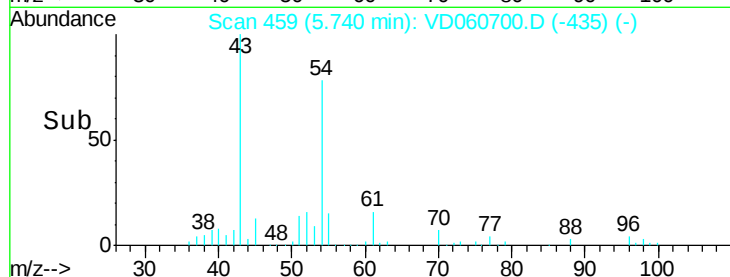
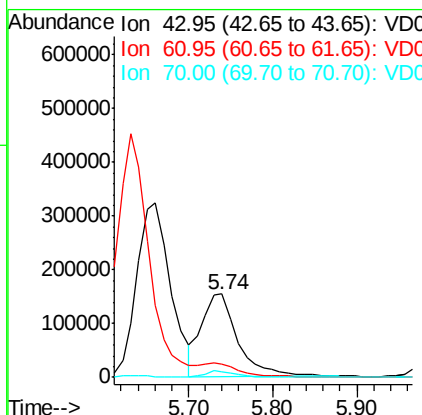
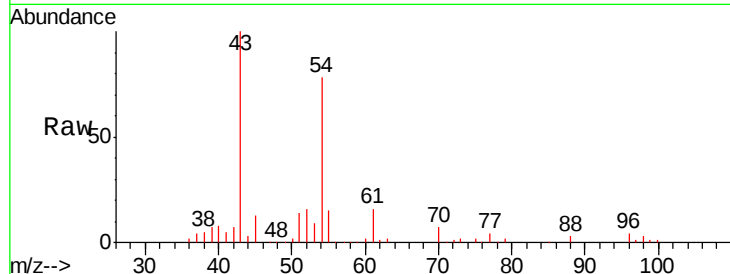
#37
Ethyl Acetate
Concen: 47.974 ug/l
RT: 5.74 min Scan# 459
Delta R.T. 0.04 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
43	100		
61	15.8	11.8	17.6
70	7.0	5.8	8.6

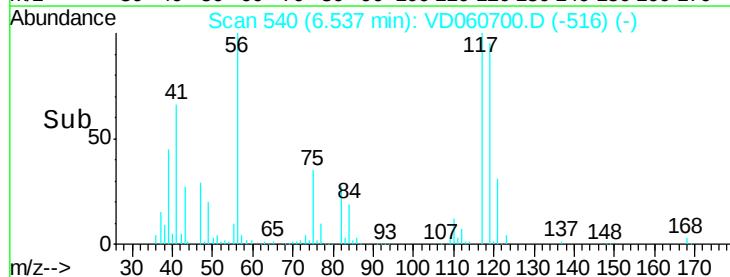
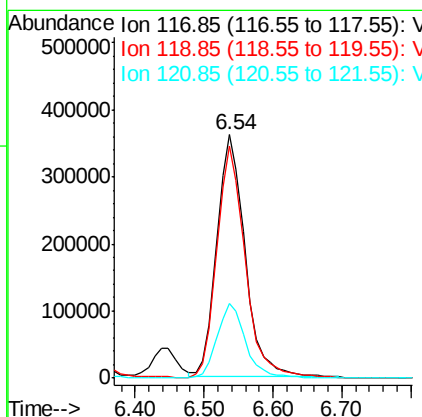
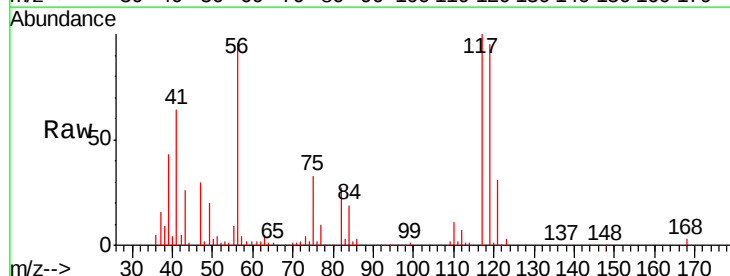
Manual Integrations
APPROVED

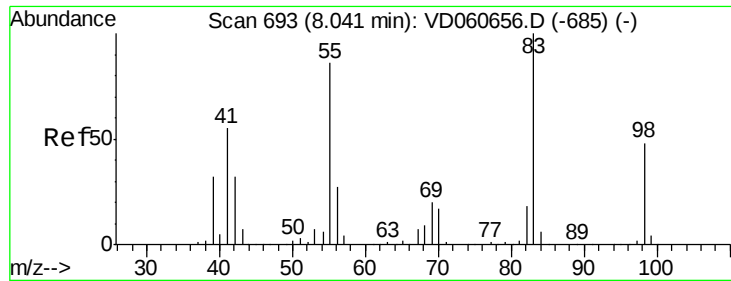
MMDadoda
12/26/2018 11:04:06 AM



#38
Carbon Tetrachloride
Concen: 50.799 ug/l
RT: 6.54 min Scan# 540
Delta R.T. 0.04 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.0	115.4
121	30.7	24.7	37.1





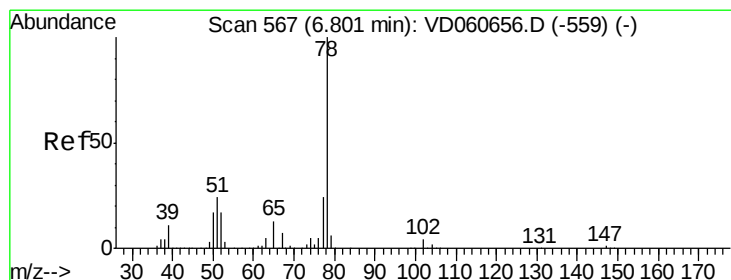
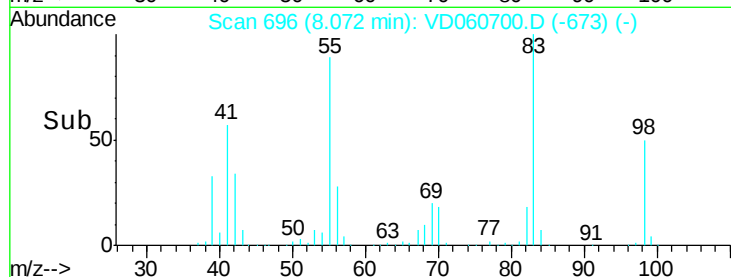
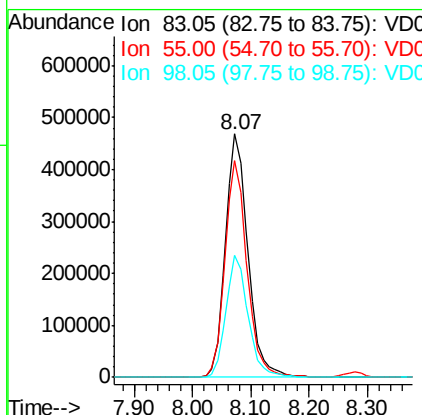
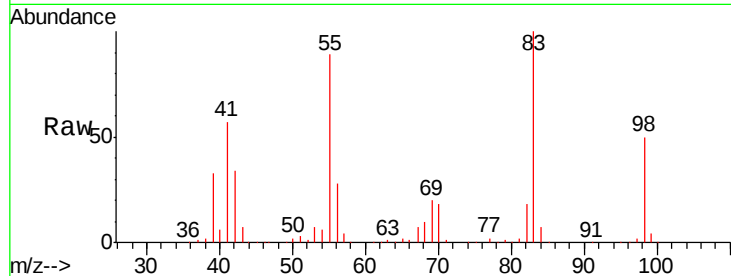
#39
Methylcyclohexane
Concen: 48.272 ug/l
RT: 8.07 min Scan# 696
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 1256079
Ion Ratio Lower Upper
83 100
55 89.2 68.6 102.8
98 50.2 38.1 57.1

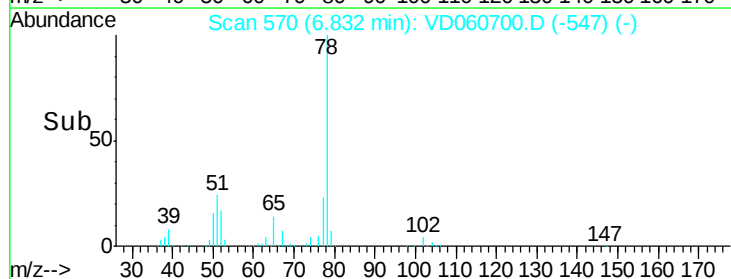
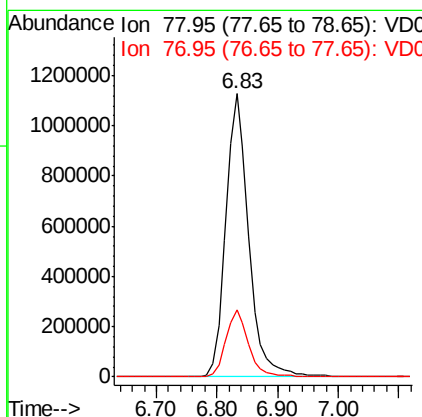
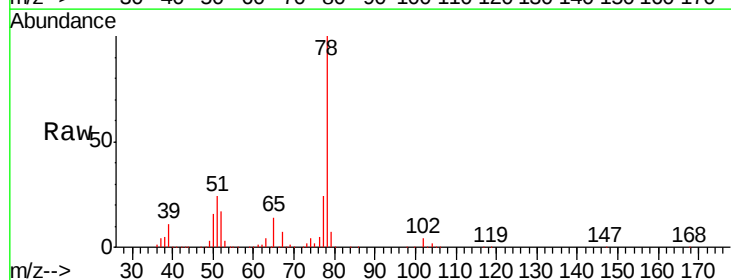
Manual Integrations
APPROVED

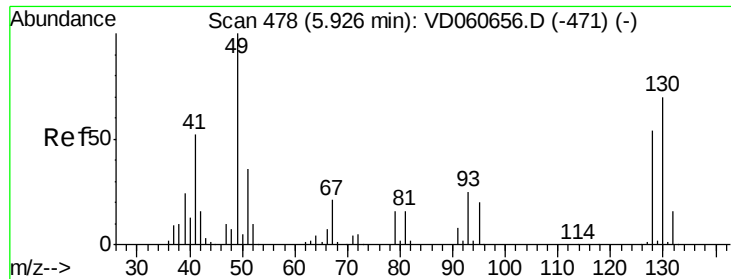
MMDadoda
12/26/2018 11:04:06 AM



#40
Benzene
Concen: 50.037 ug/l
RT: 6.83 min Scan# 570
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 78 Resp: 2948862
Ion Ratio Lower Upper
78 100
77 23.9 19.2 28.8





#41

Methacrylonitrile

Concen: 42.530 ug/l m

RT: 5.96 min Scan# 481

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 224475
Ion Ratio Lower Upper

41 100

39 49.0 37.6 56.4

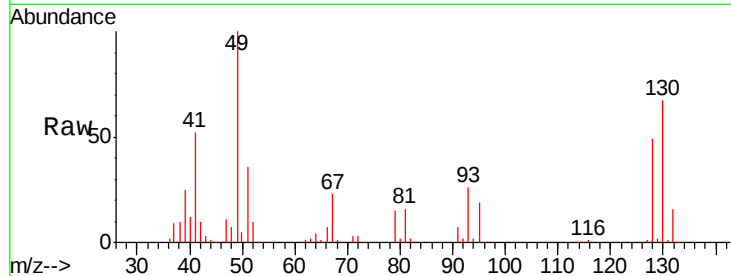
67 45.3 33.0 49.6

52 18.6 15.5 23.3

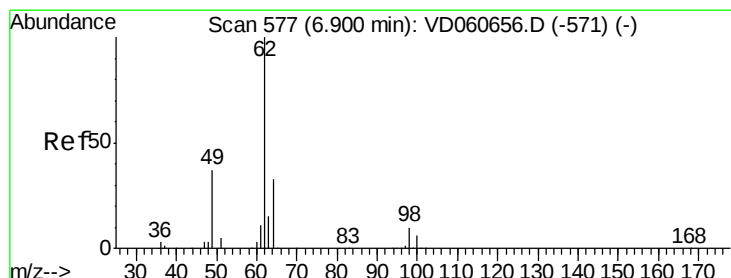
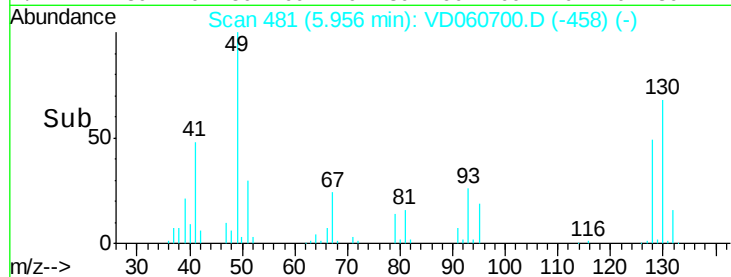
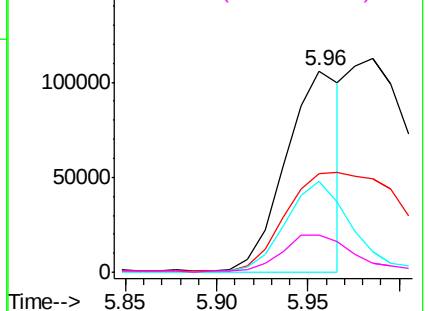
Manual Integrations
APPROVED

MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 48.662 ug/l

RT: 6.93 min Scan# 580

Delta R.T. 0.03 min

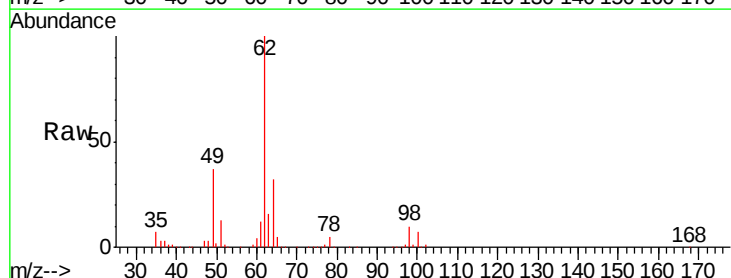
Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

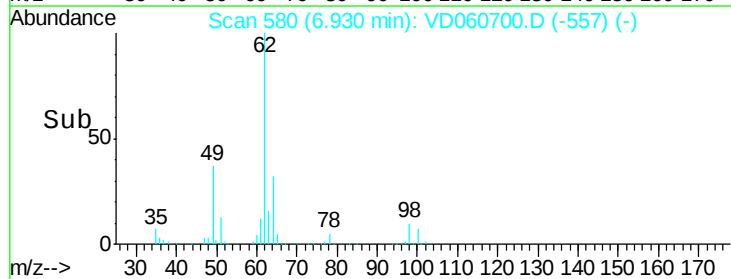
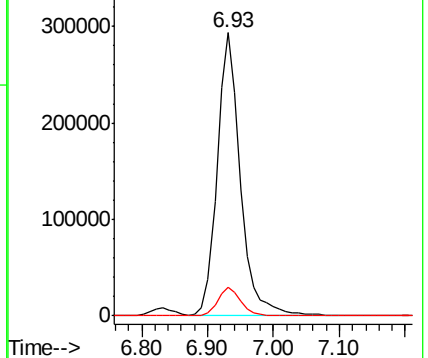
Tgt Ion: 62 Resp: 711671
Ion Ratio Lower Upper

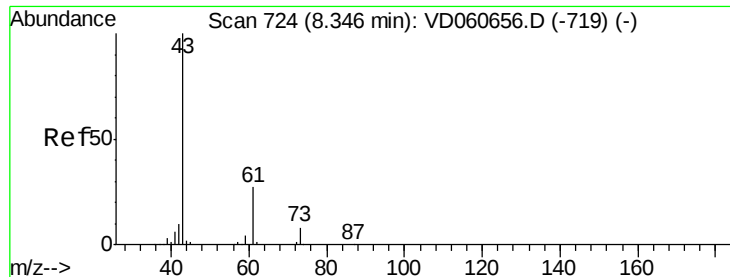
62 100

98 10.0 0.0 20.4



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 48.403 ug/l

RT: 8.38 min Scan# 727

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

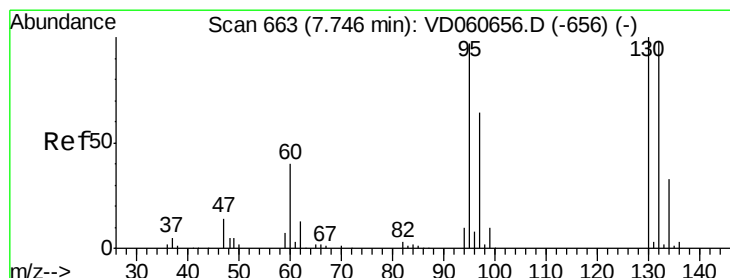
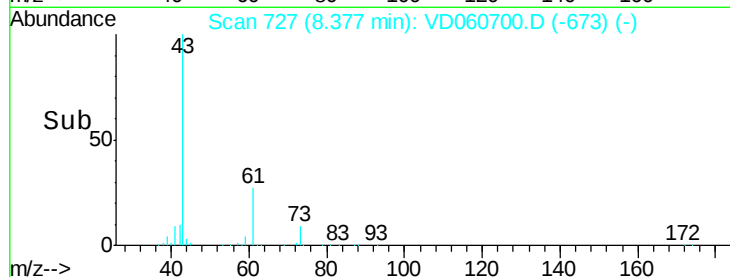
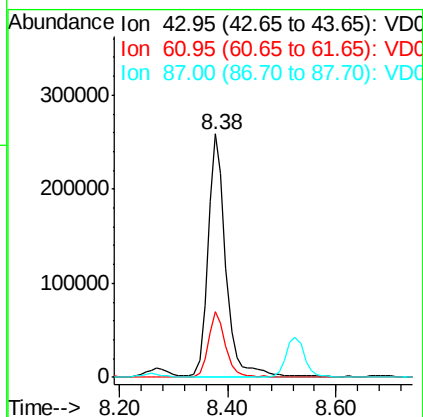
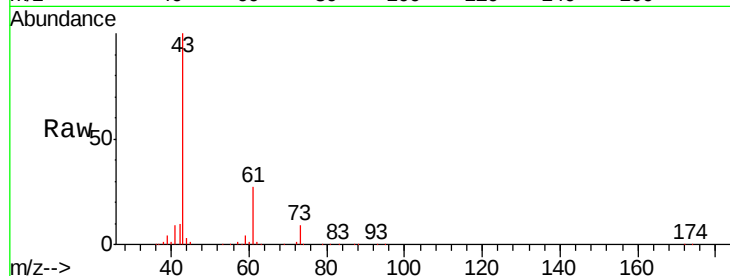
ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	592694
Ion	Ratio	Lower	Upper
43	100		
61	27.2	21.8	32.8
87	0.3	0.2	0.4

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



#44

Trichloroethene

Concen: 52.162 ug/l

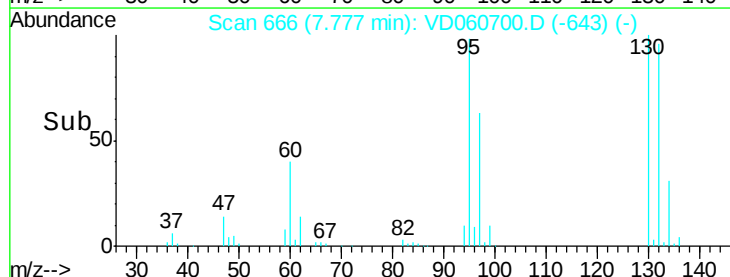
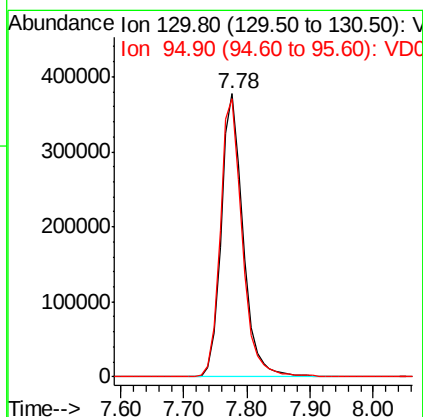
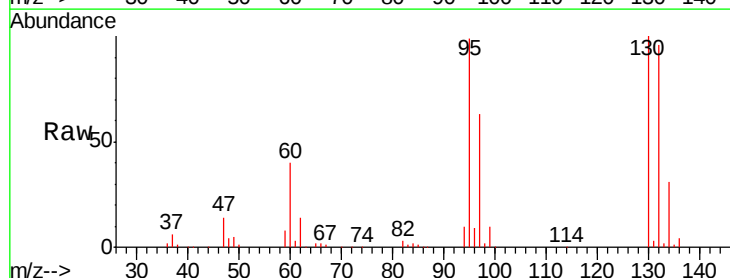
RT: 7.78 min Scan# 666

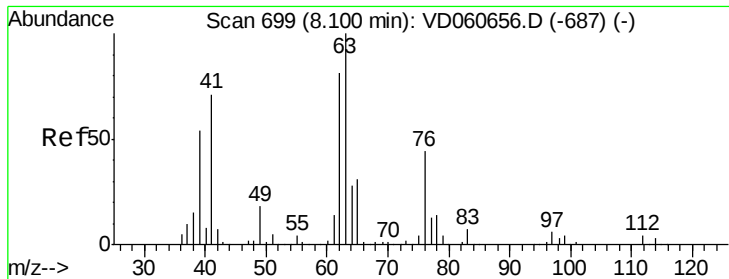
Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Tgt Ion:	130	Resp:	909851
Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	193.6





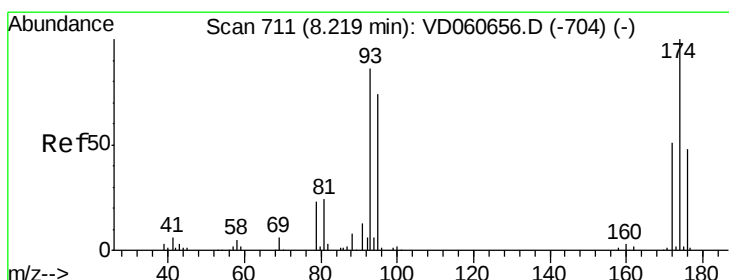
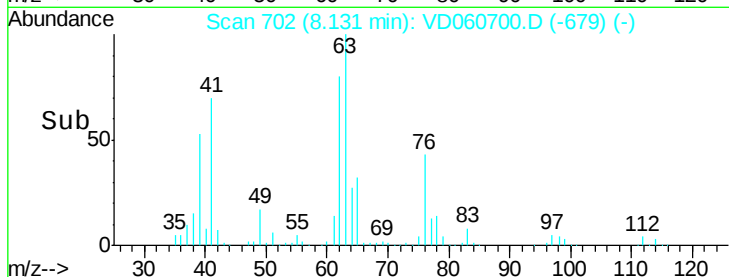
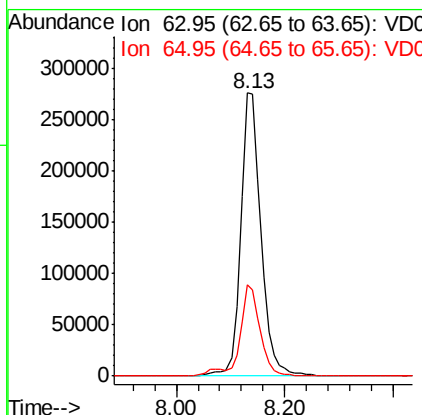
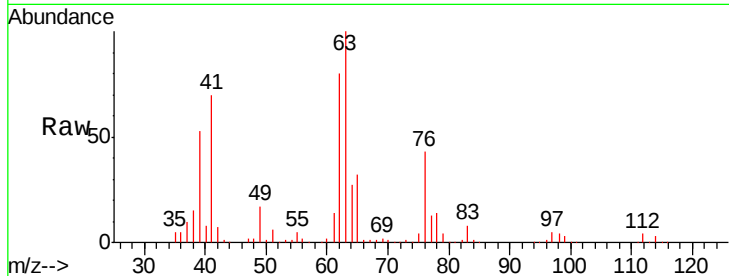
#45
 1,2-Dichloropropane
 Concen: 49.674 ug/l
 RT: 8.13 min Scan# 702
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 63 Resp: 717931
 Ion Ratio Lower Upper
 63 100
 65 32.4 25.0 37.6

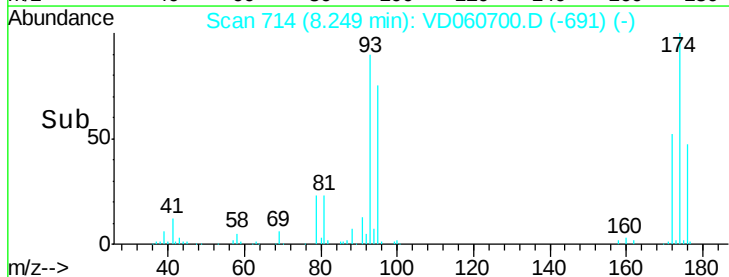
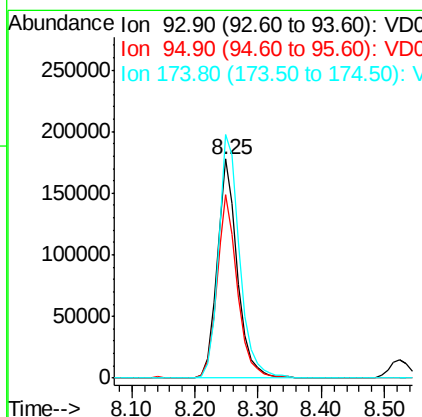
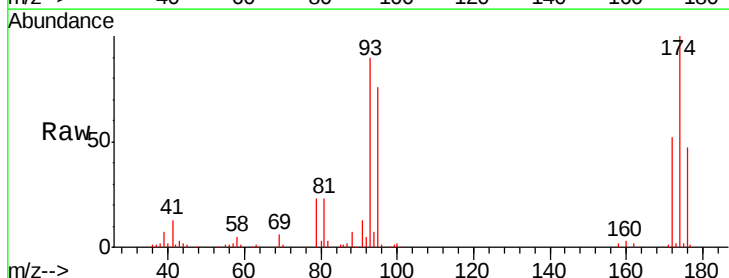
Manual Integrations
 APPROVED

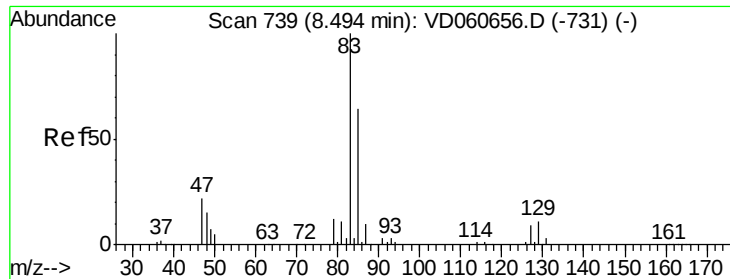
MMDadoda
 12/26/2018 11:04:06 AM



#46
 Dibromomethane
 Concen: 48.349 ug/l
 RT: 8.25 min Scan# 714
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion: 93 Resp: 398821
 Ion Ratio Lower Upper
 93 100
 95 84.0 68.8 103.2
 174 111.2 93.0 139.4





#47

Bromodichloromethane

Concen: 50.821 ug/l

RT: 8.52 min Scan# 742

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

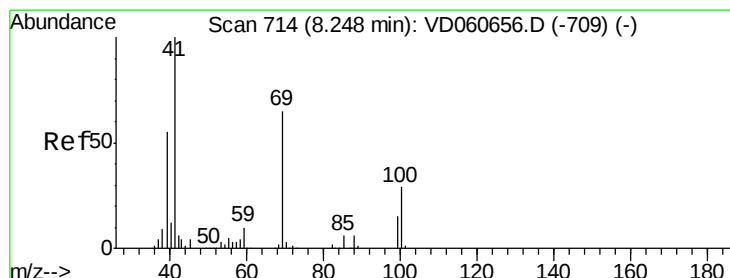
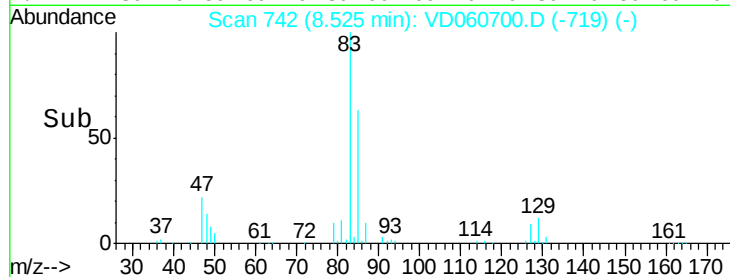
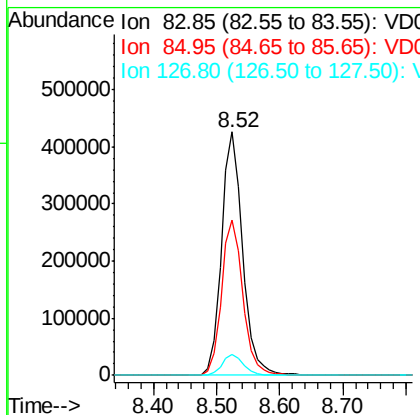
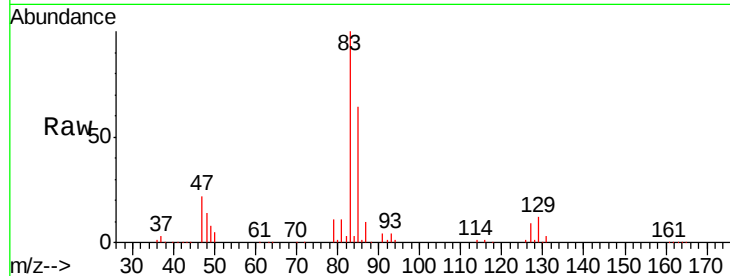
ClientSampleId :

VSTDCCC050

Tgt Ion:	83	Resp:	992902
Ion Ratio	Lower	Upper	
83	100		
85	64.0	51.1	76.7
127	8.5	7.0	10.6

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



#48

Methyl methacrylate

Concen: 48.229 ug/l

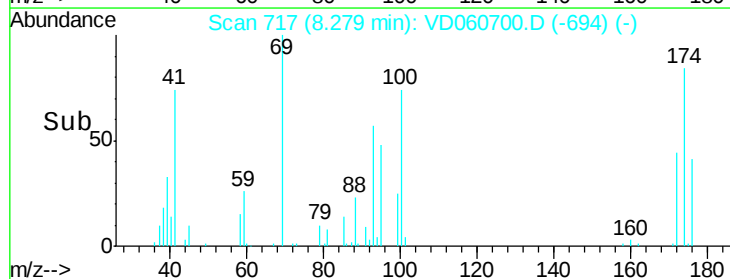
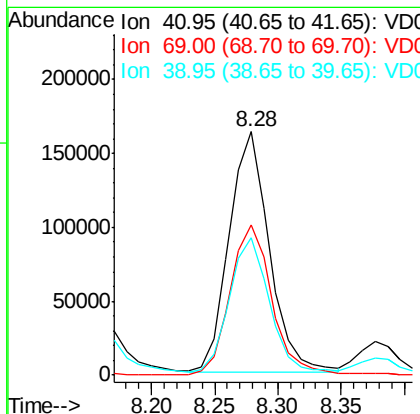
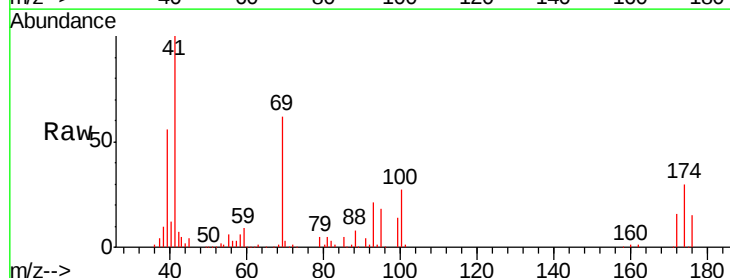
RT: 8.28 min Scan# 717

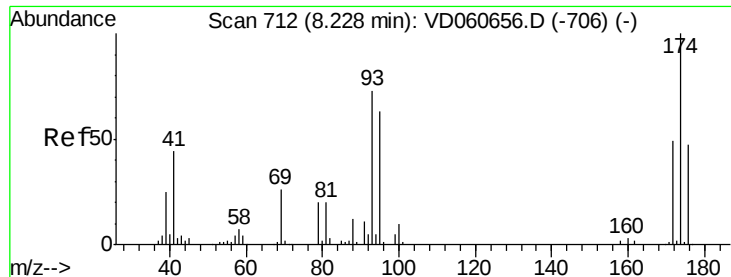
Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Tgt Ion:	41	Resp:	358689
Ion Ratio	Lower	Upper	
41	100		
69	61.9	51.2	76.8
39	56.4	44.6	67.0





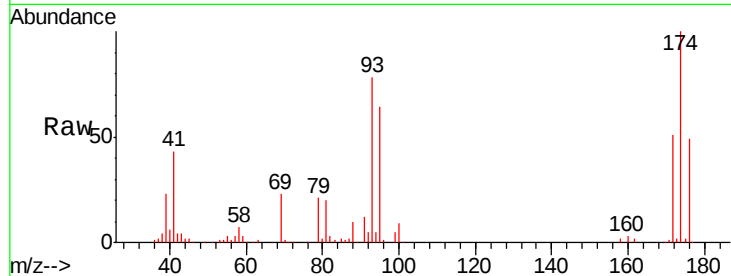
#49
1,4-Dioxane
Concen: 931.710 ug/l
RT: 8.26 min Scan# 715
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

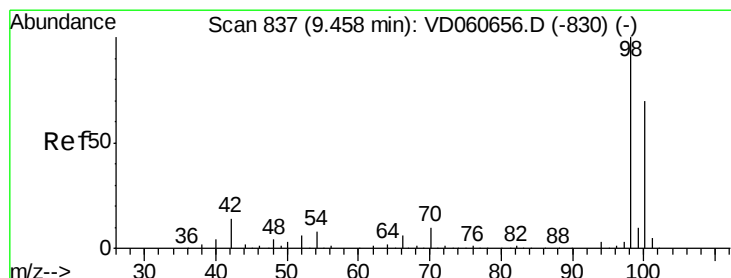
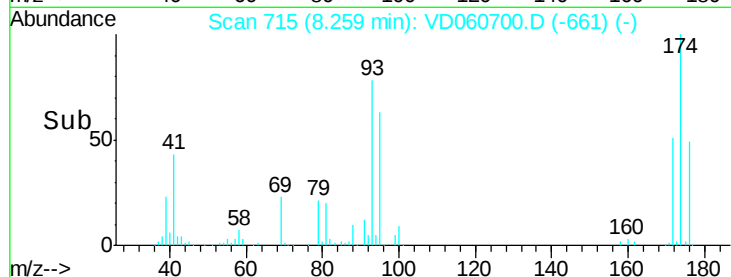
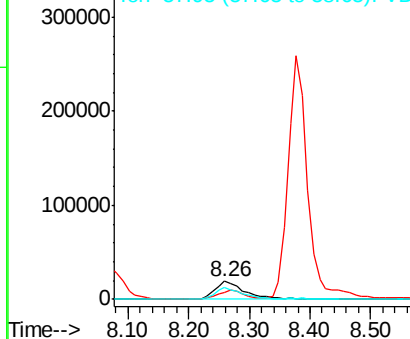
Tgt Ion	Ratio	Lower	Upper
88	100		
43	41.2	31.5	47.3
58	68.1	50.6	76.0

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM

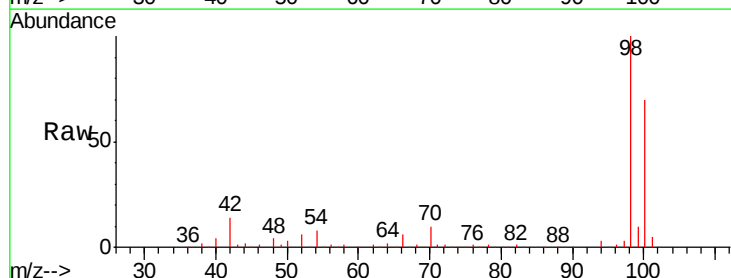


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

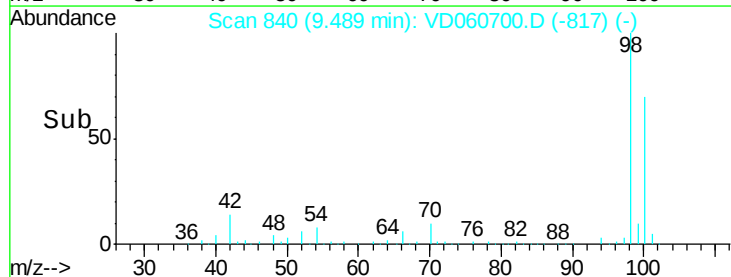
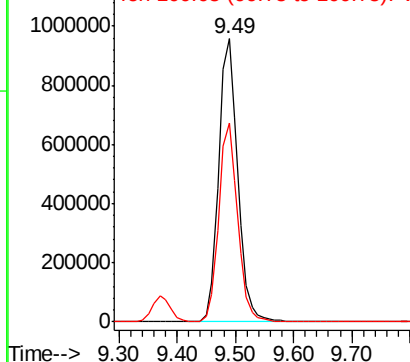


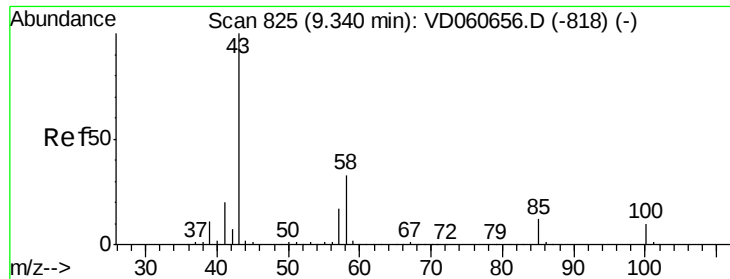
#50
Toluene-d8
Concen: 931.710 ug/l
RT: 9.49 min Scan# 840
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Lower	Upper
98	100		
100	70.1	55.8	83.8



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





#51

4-Methyl-2-Pentanone

Concen: 235.599 ug/l

RT: 9.37 min Scan# 828

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 1767501

Ion Ratio Lower Upper

43 100

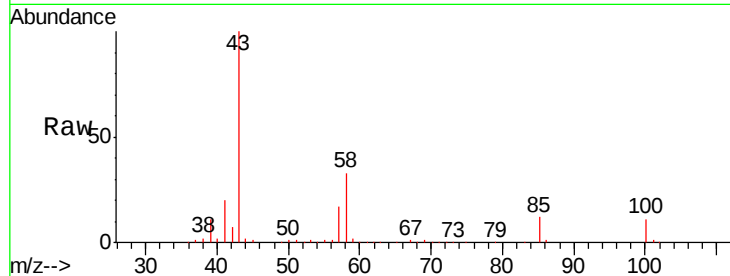
58 33.2 26.3 39.5

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

9.37

800000

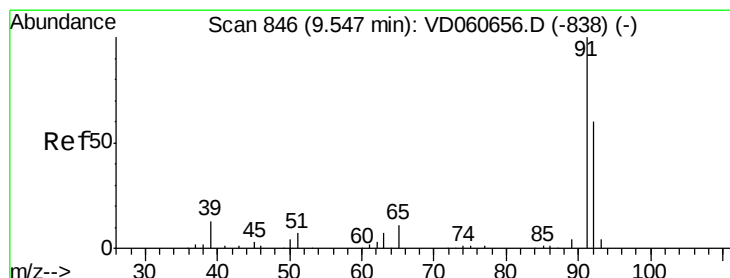
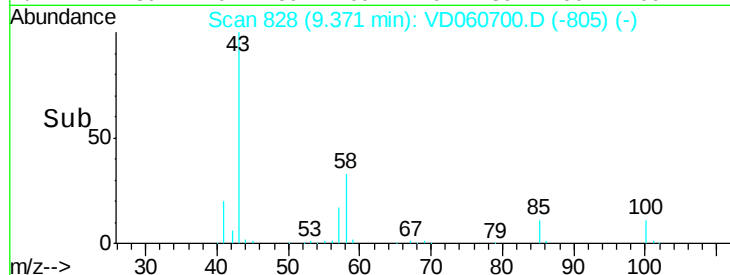
600000

400000

200000

0

Time-->



#52

Toluene

Concen: 49.806 ug/l

RT: 9.58 min Scan# 849

Delta R.T. 0.03 min

Lab File: VD060700.D

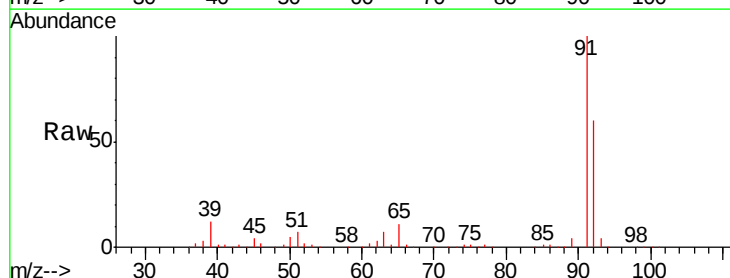
Acq: 22 Dec 2018 10:50

Tgt Ion: 92 Resp: 1840064

Ion Ratio Lower Upper

92 100

91 166.0 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

9.58

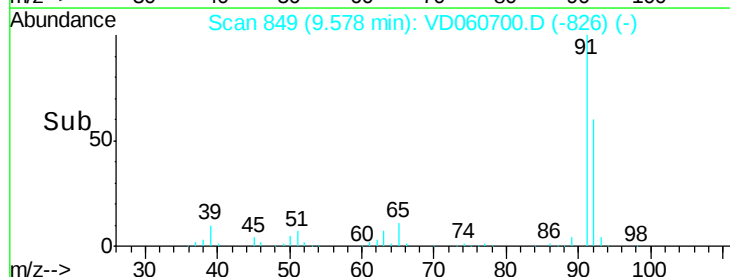
1500000

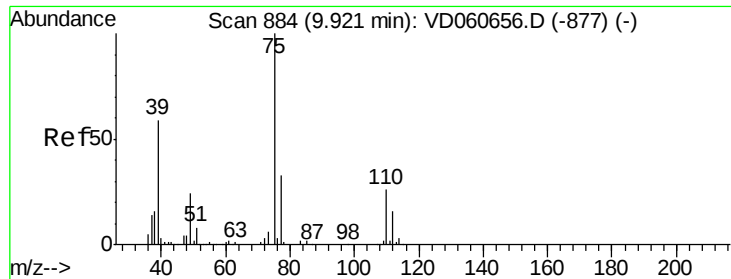
1000000

500000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 49.895 ug/l

RT: 9.95 min Scan# 887

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 813252

Ion Ratio Lower Upper

75 100

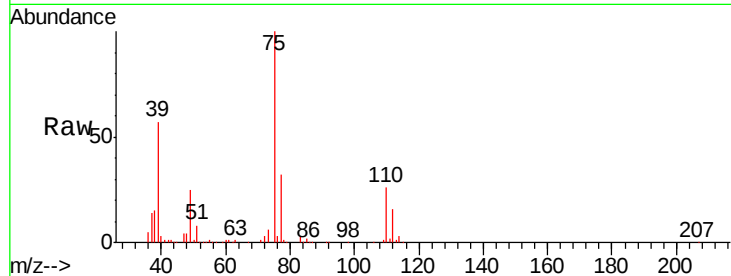
77 32.1 26.0 39.0

Manual Integrations

APPROVED

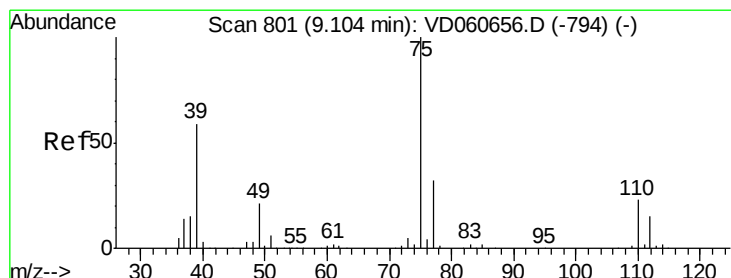
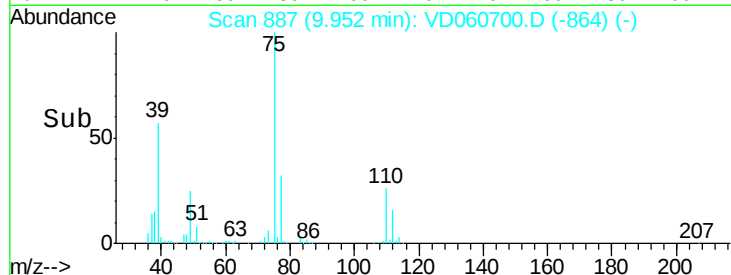
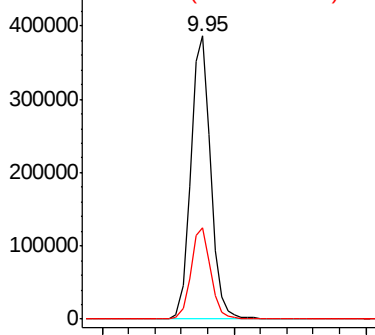
MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 50.057 ug/l

RT: 9.13 min Scan# 804

Delta R.T. 0.03 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

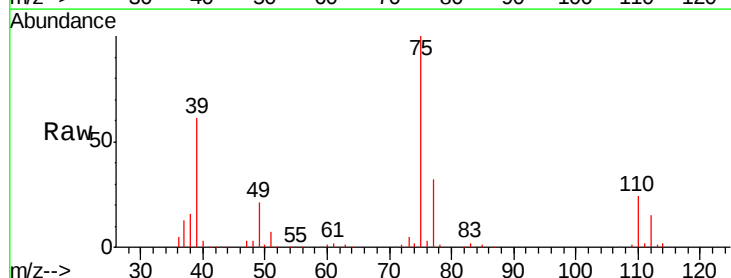
Tgt Ion: 75 Resp: 1067933

Ion Ratio Lower Upper

75 100

77 32.2 25.4 38.2

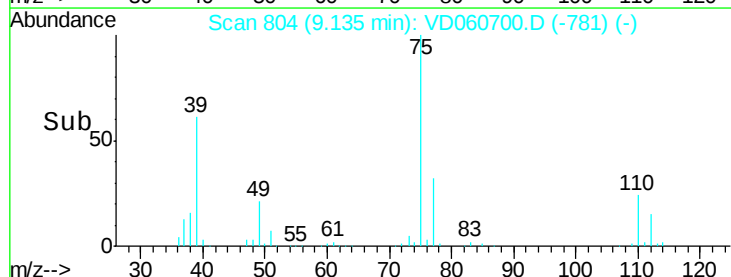
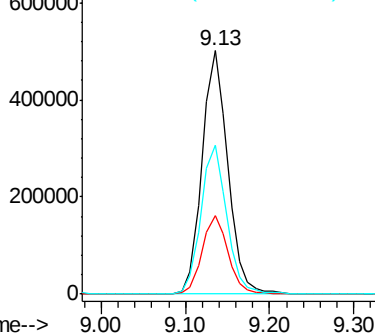
39 61.2 47.0 70.4

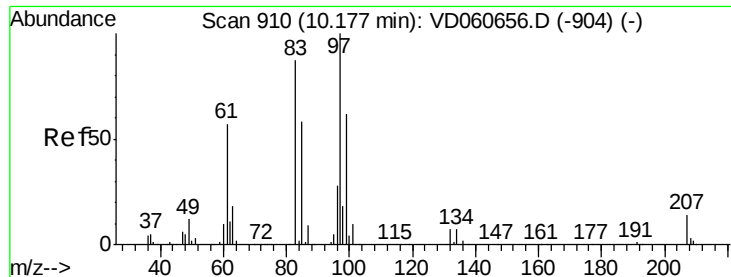


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC





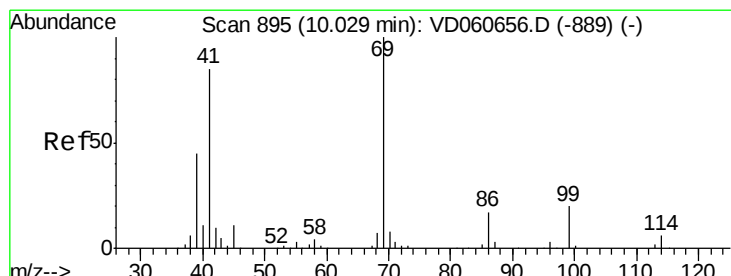
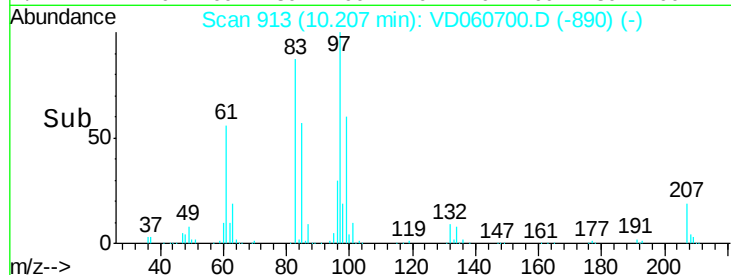
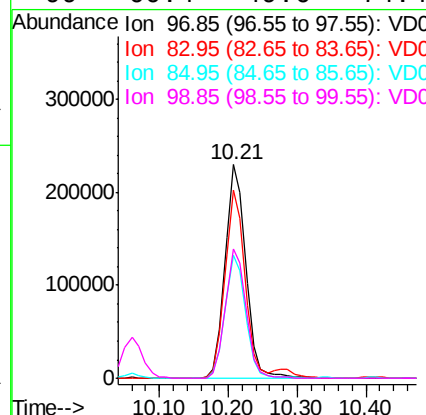
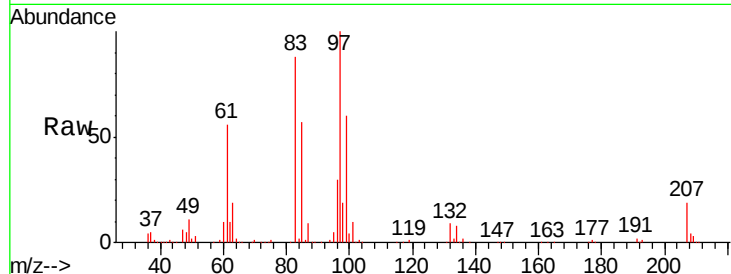
#55
 1,1,2-Trichloroethane
 Concen: 48.219 ug/l
 RT: 10.21 min Scan# 913
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion:	97	Resp:	479313
Ion	Ratio	Lower	Upper
97	100		
83	87.9	70.0	105.0
85	57.4	46.6	70.0
99	60.4	49.6	74.4

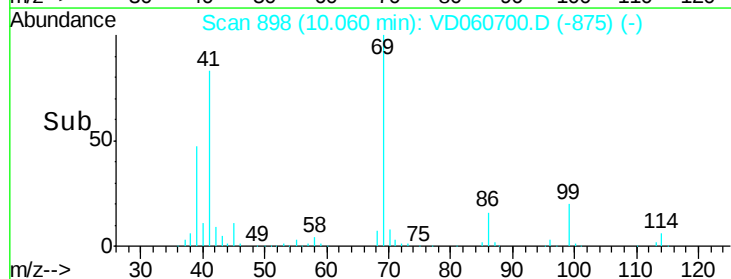
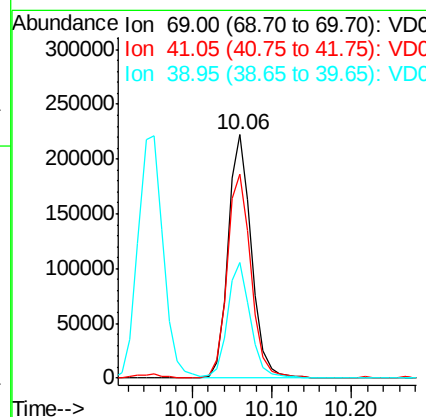
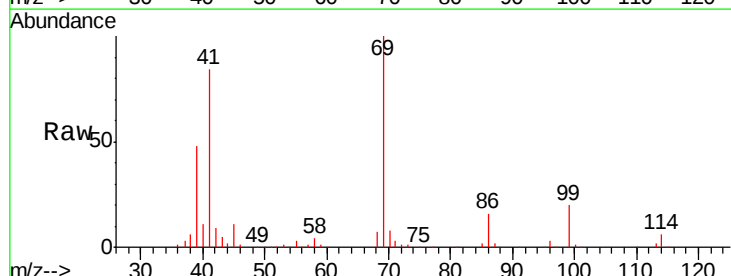
Manual Integrations
 APPROVED

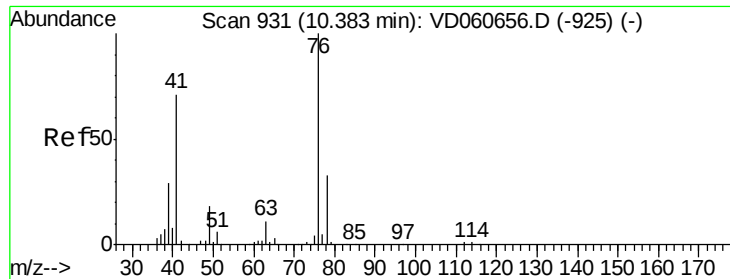
MMDadoda
 12/26/2018 11:04:06 AM



#56
 Ethyl methacrylate
 Concen: 49.622 ug/l
 RT: 10.06 min Scan# 898
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion:	69	Resp:	458153
Ion	Ratio	Lower	Upper
69	100		
41	83.6	68.3	102.5
39	47.6	37.2	55.8





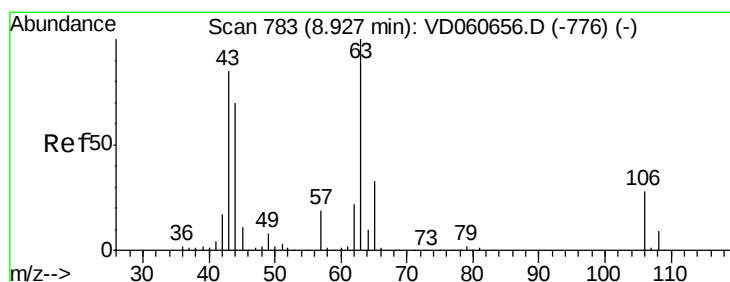
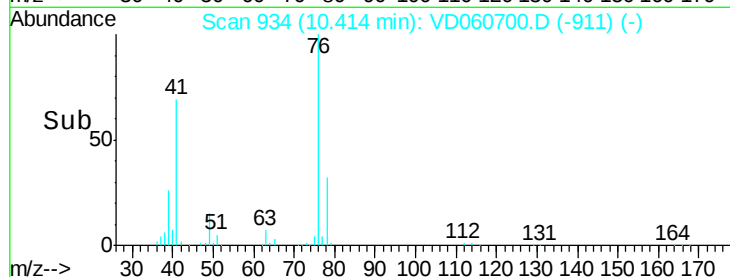
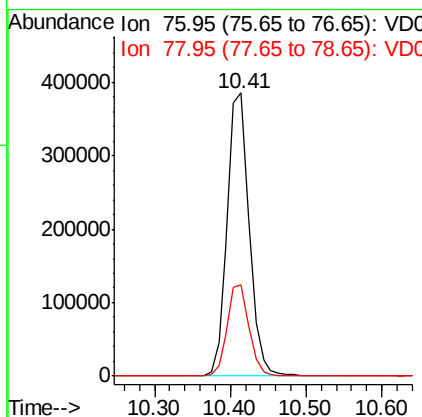
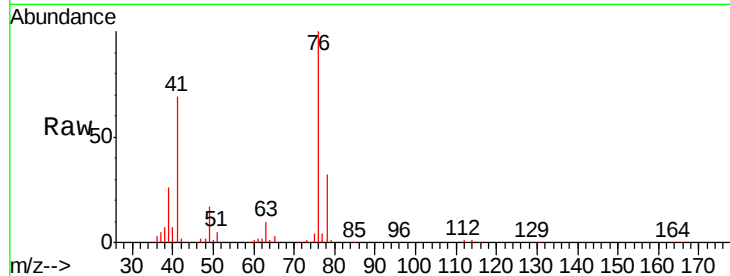
#57
 1,3-Dichloropropane
 Concen: 49.215 ug/l
 RT: 10.41 min Scan# 934
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 76 Resp: 775428
 Ion Ratio Lower Upper
 76 100
 78 32.1 26.1 39.1

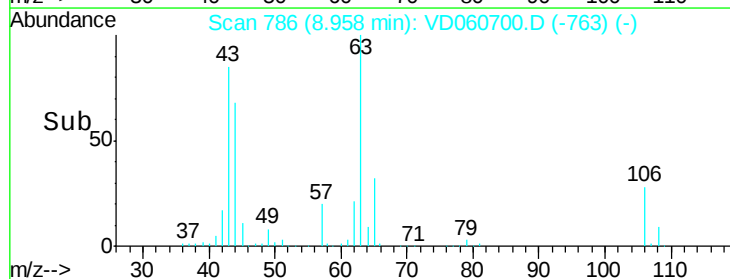
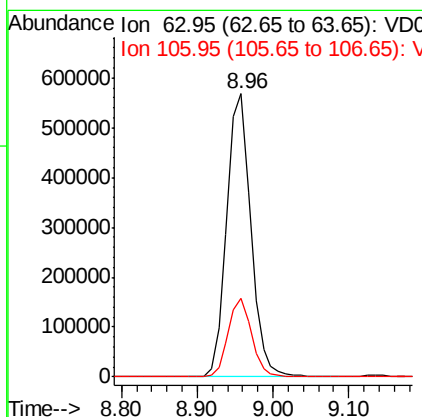
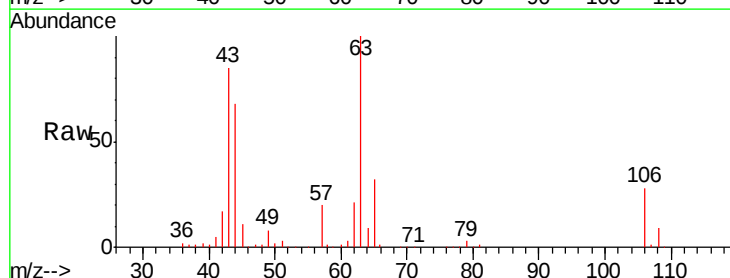
Manual Integrations
 APPROVED

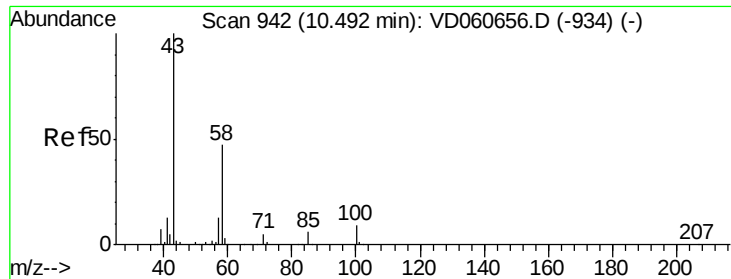
MMDadoda
 12/26/2018 11:04:06 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 230.662 ug/l
 RT: 8.96 min Scan# 786
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion: 63 Resp: 1254860
 Ion Ratio Lower Upper
 63 100
 106 27.6 22.4 33.6





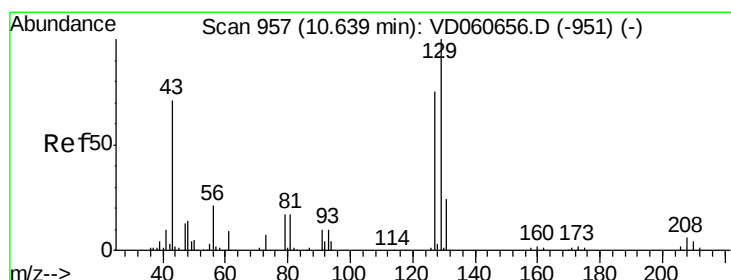
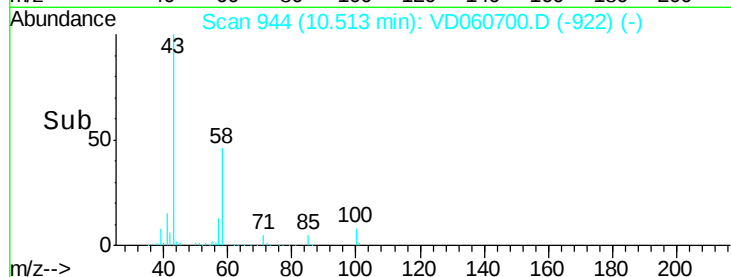
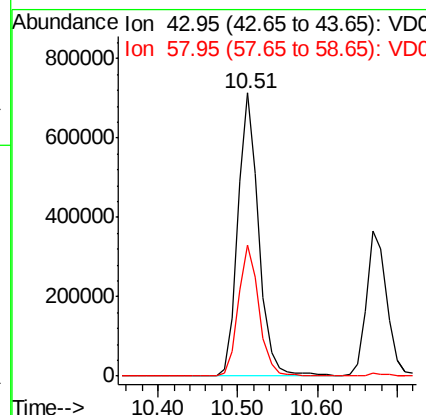
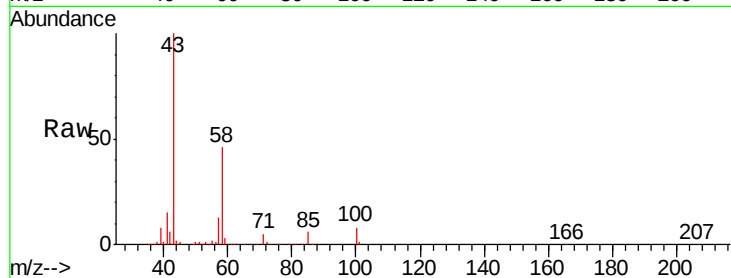
#59
2-Hexanone
Concen: 248.435 ug/l
RT: 10.51 min Scan# 944
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1304593
Ion Ratio Lower Upper
43 100
58 46.3 23.5 70.5

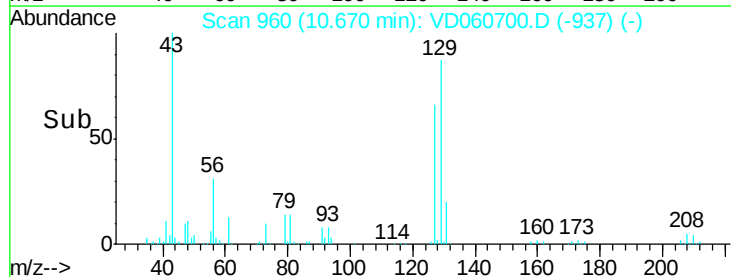
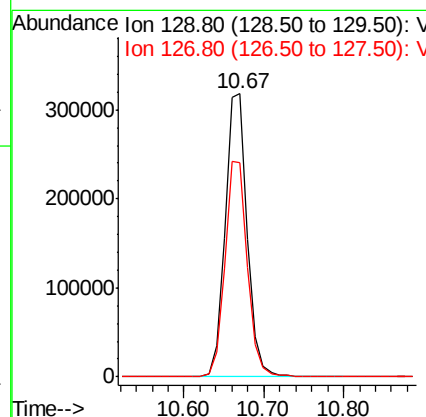
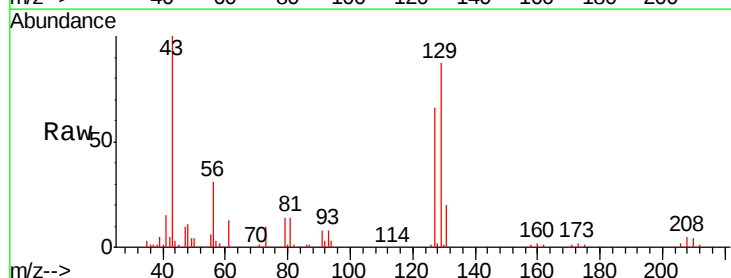
Manual Integrations
APPROVED

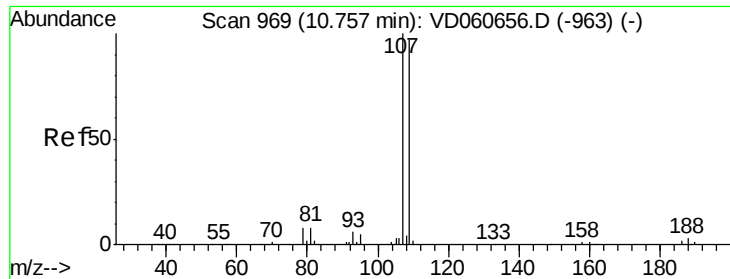
MMDadoda
12/26/2018 11:04:06 AM



#60
Dibromochloromethane
Concen: 49.068 ug/l
RT: 10.67 min Scan# 960
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 129 Resp: 621279
Ion Ratio Lower Upper
129 100
127 75.6 37.6 112.9





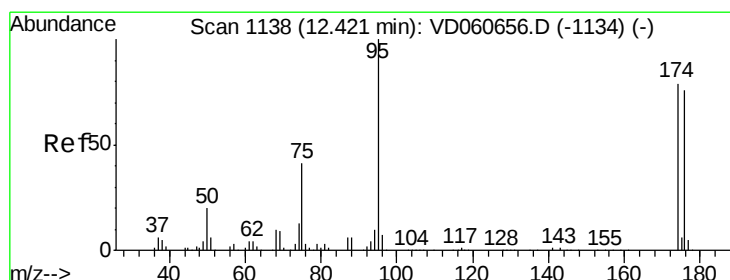
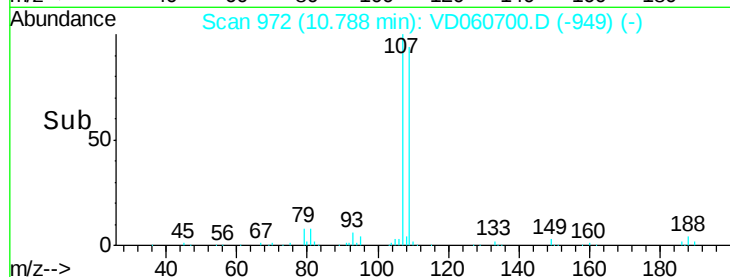
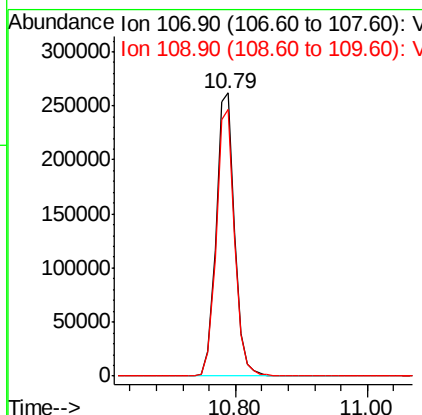
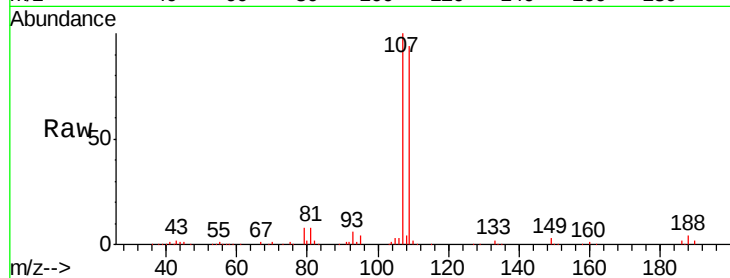
#61
 1,2-Dibromoethane
 Concen: 48.801 ug/l
 RT: 10.79 min Scan# 972
 Delta R.T. 0.03 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 107 Resp: 503169
 Ion Ratio Lower Upper
 107 100
 109 94.4 78.0 117.0

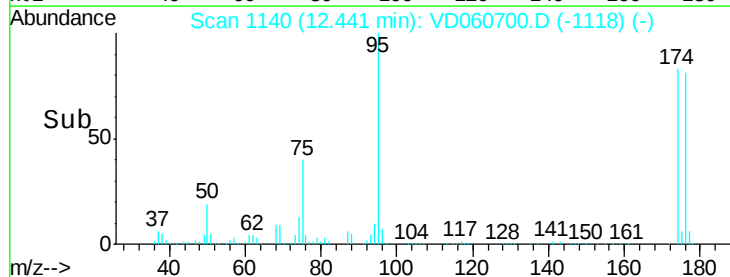
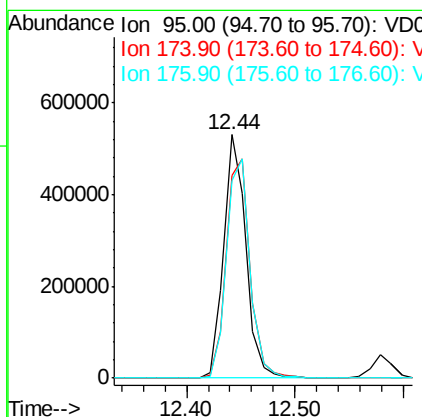
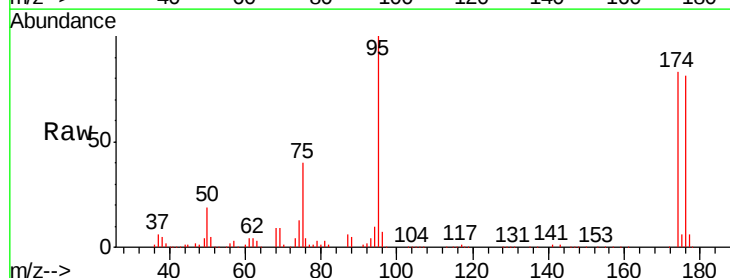
Manual Integrations
 APPROVED

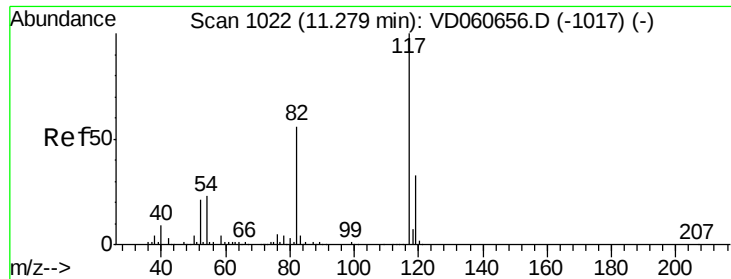
MMDadoda
 12/26/2018 11:04:06 AM



#62
 4-Bromofluorobenzene
 Concen: 48.801 ug/l
 RT: 12.44 min Scan# 1140
 Delta R.T. 0.02 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion: 95 Resp: 757767
 Ion Ratio Lower Upper
 95 100
 174 83.2 0.0 158.2
 176 81.0 0.0 152.4





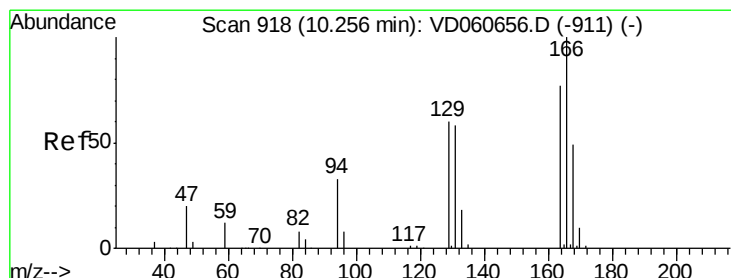
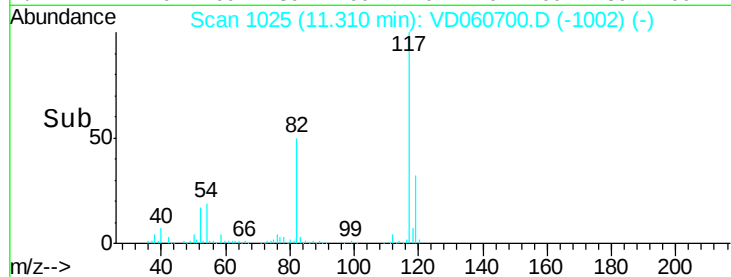
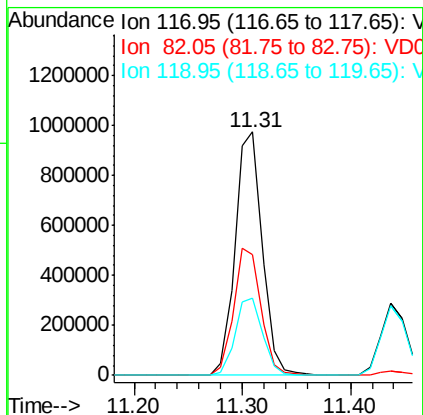
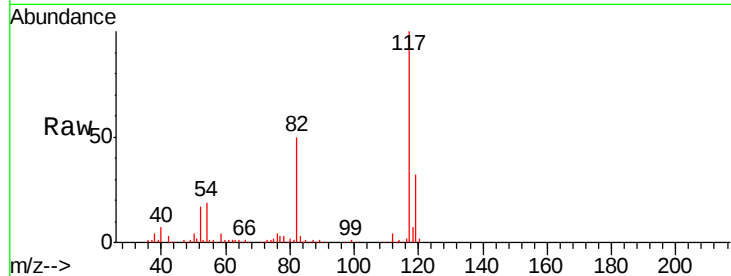
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.31 min Scan# 1025
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion:117 Resp: 1696276
Ion Ratio Lower Upper
117 100
82 49.7 44.5 66.7
119 31.9 26.3 39.5

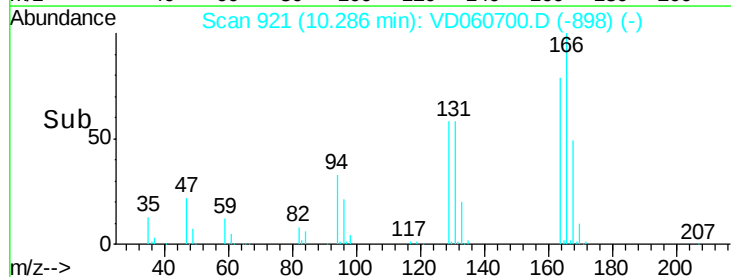
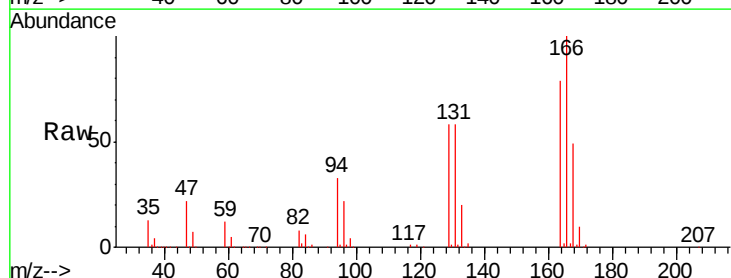
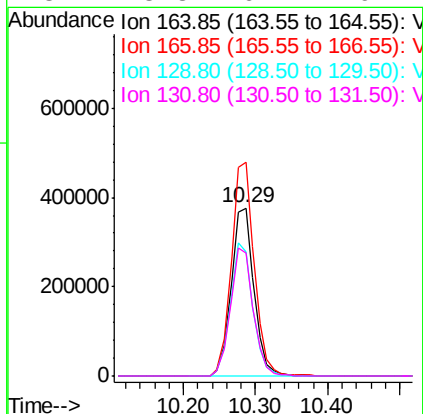
Manual Integrations
APPROVED

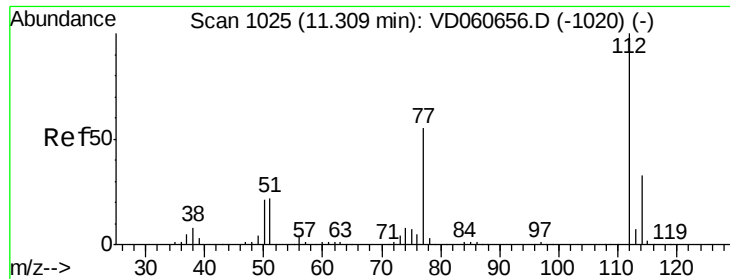
MMDadoda
12/26/2018 11:04:06 AM



#64
Tetrachloroethene
Concen: 53.780 ug/l
RT: 10.29 min Scan# 921
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion:164 Resp: 826844
Ion Ratio Lower Upper
164 100
166 127.0 104.4 156.6
129 73.7 62.7 94.1
131 73.3 61.1 91.7





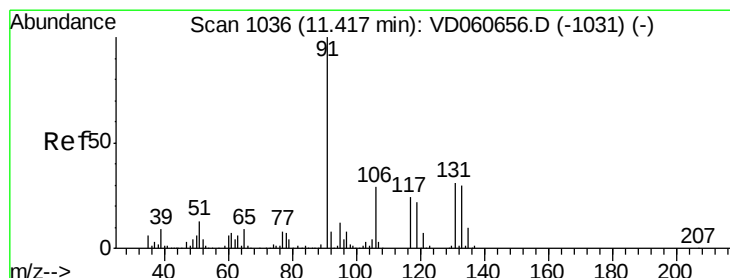
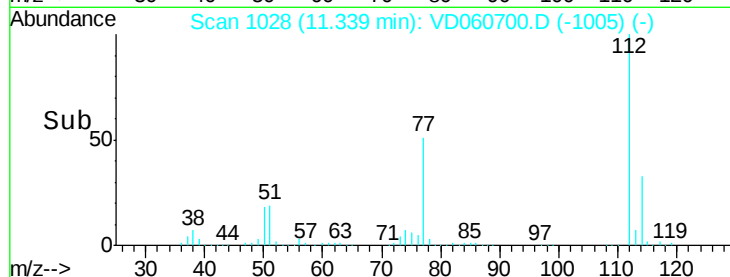
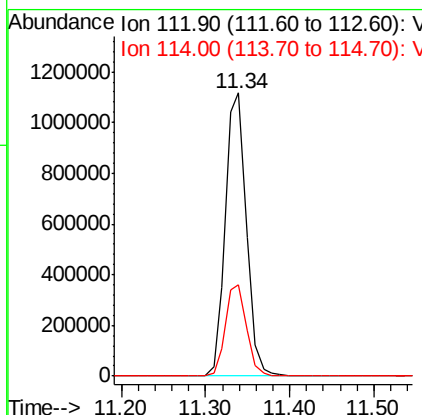
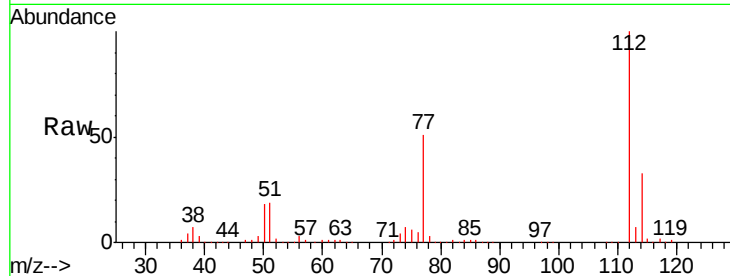
#65
Chlorobenzene
Concen: 51.678 ug/l
RT: 11.34 min Scan# 1028
Delta R.T. 0.03 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 1936740
Ion Ratio Lower Upper
112 100
114 32.5 26.1 39.1

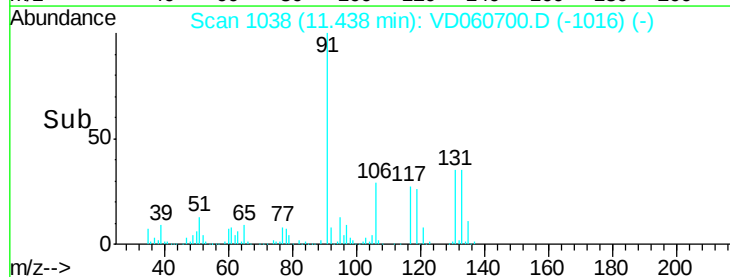
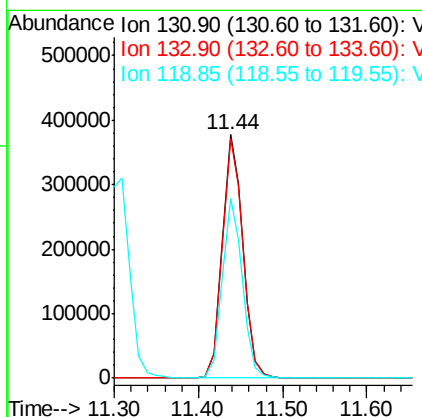
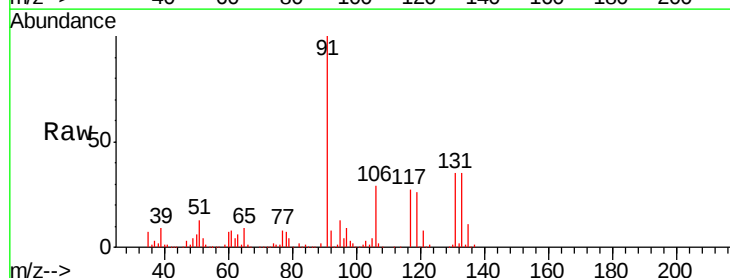
Manual Integrations
APPROVED

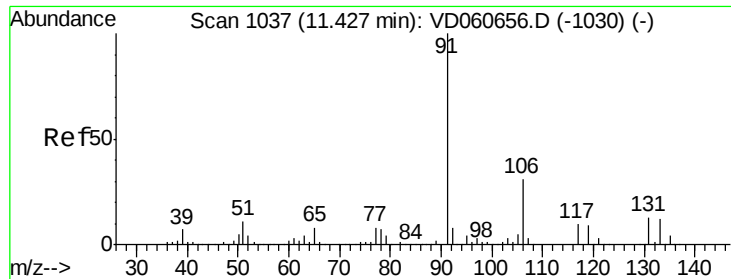
MMDadoda
12/26/2018 11:04:06 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 52.887 ug/l
RT: 11.44 min Scan# 1038
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion:131 Resp: 637276
Ion Ratio Lower Upper
131 100
133 98.5 49.1 147.3
119 73.5 36.6 109.8





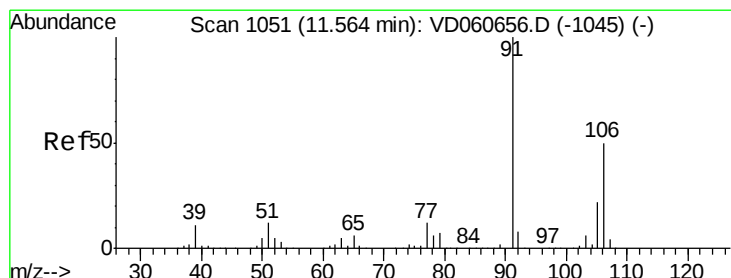
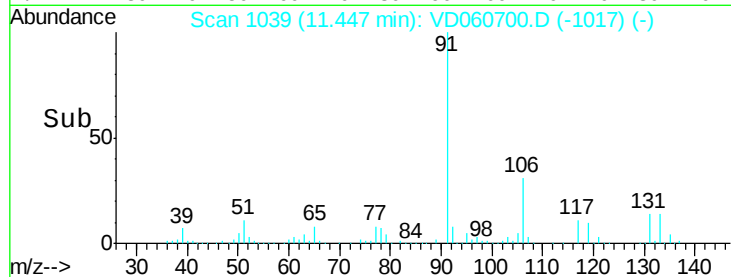
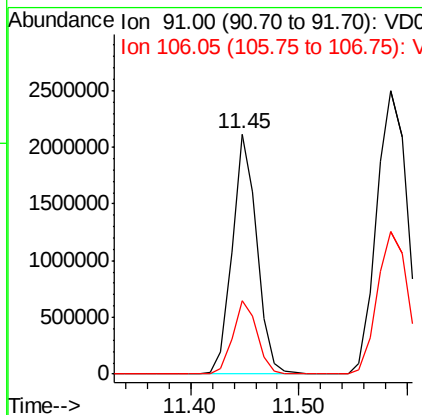
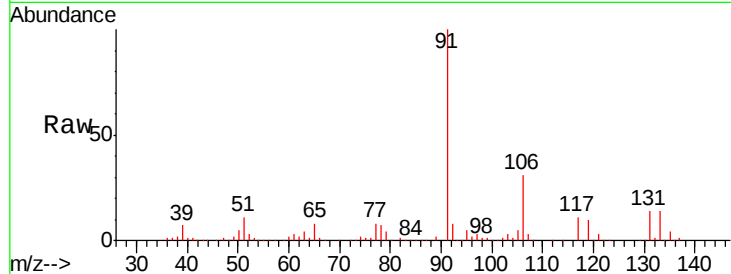
#67
Ethyl Benzene
Concen: 52.123 ug/l
RT: 11.45 min Scan# 1039
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 3345396
Ion Ratio Lower Upper
91 100
106 30.6 24.6 36.8

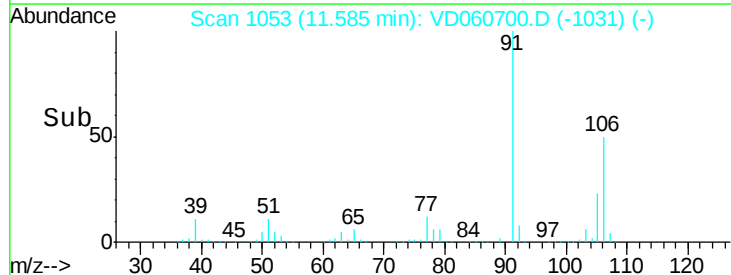
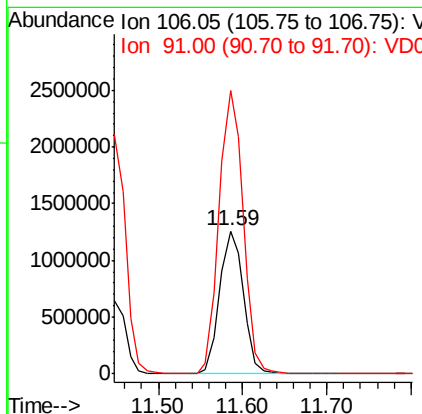
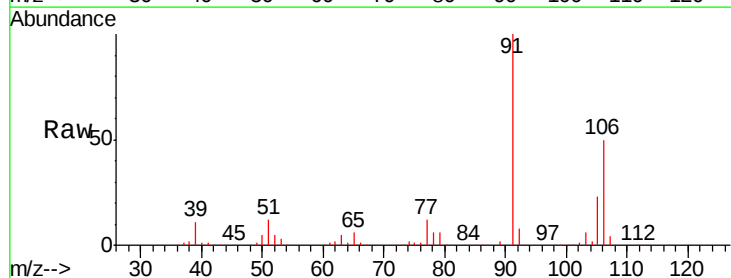
Manual Integrations
APPROVED

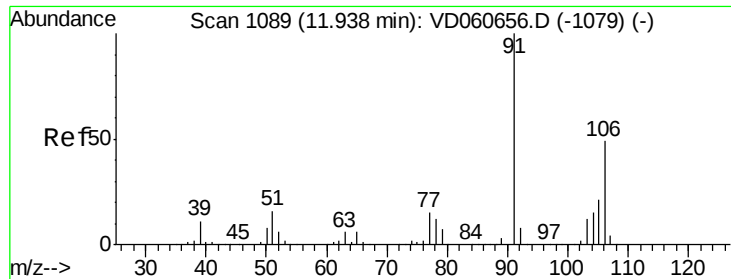
MMDadoda
12/26/2018 11:04:06 AM



#68
m/p-Xylenes
Concen: 105.051 ug/l
RT: 11.59 min Scan# 1053
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 106 Resp: 2464067
Ion Ratio Lower Upper
106 100
91 198.4 158.9 238.3





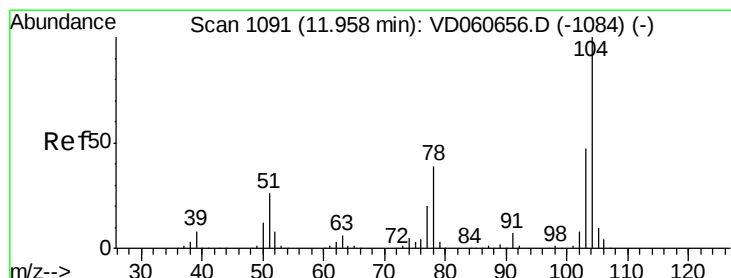
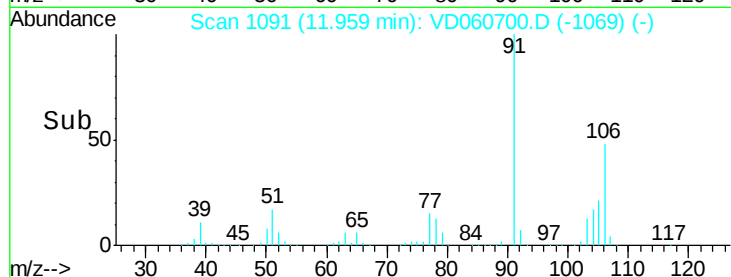
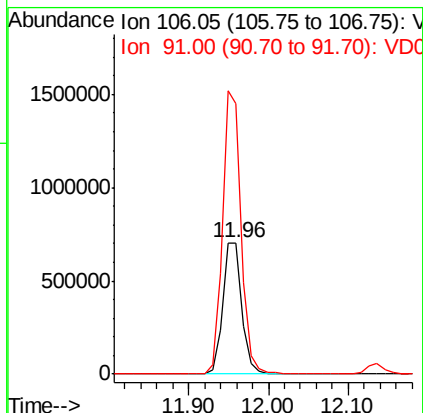
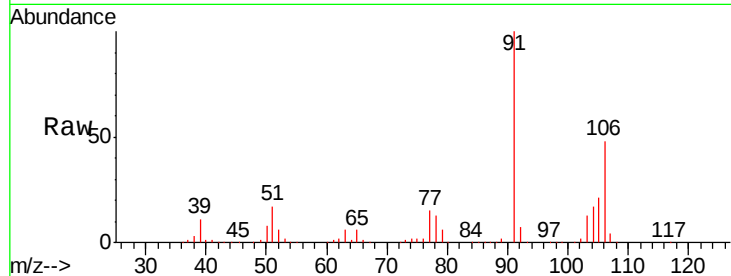
#69
o-Xylene
Concen: 53.186 ug/l
RT: 11.96 min Scan# 1091
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 1183572
Ion Ratio Lower Upper
106 100
91 206.3 101.5 304.5

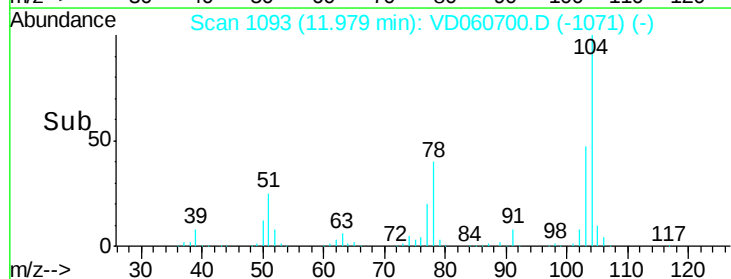
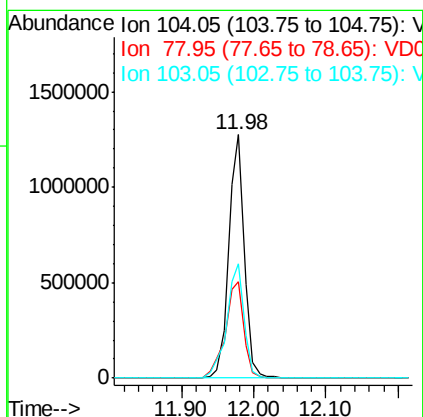
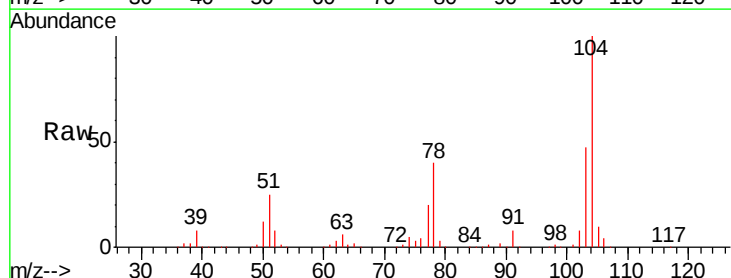
Manual Integrations
APPROVED

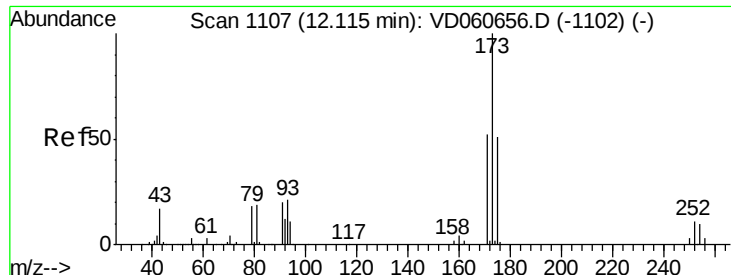
MMDadoda
12/26/2018 11:04:06 AM



#70
Styrene
Concen: 53.199 ug/l
RT: 11.98 min Scan# 1093
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion:104 Resp: 1906692
Ion Ratio Lower Upper
104 100
78 39.8 31.4 47.2
103 46.9 37.5 56.3





#71

Bromoform

Concen: 51.996 ug/l

RT: 12.14 min Scan# 1109

Delta R.T. 0.02 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

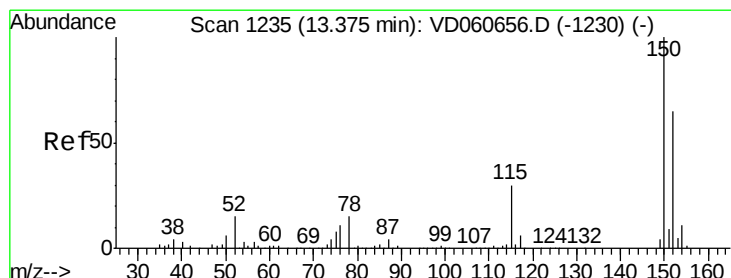
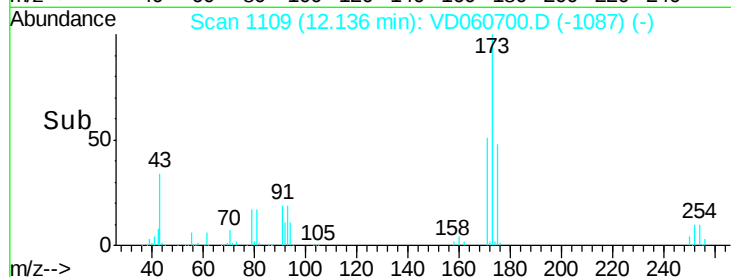
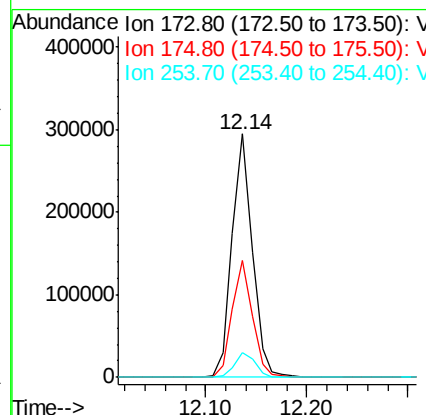
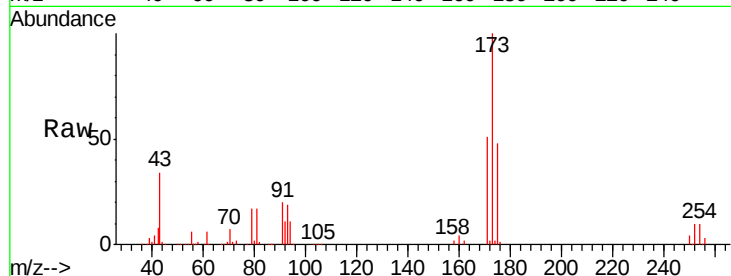
ClientSampleId :

VSTDCCC050

Tgt Ion:	173	Resp:	413580
Ion Ratio	Lower	Upper	
173	100		
175	48.1	25.5	76.5
254	10.2	7.9	11.9

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

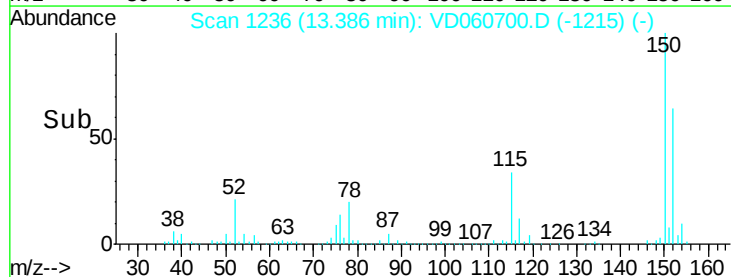
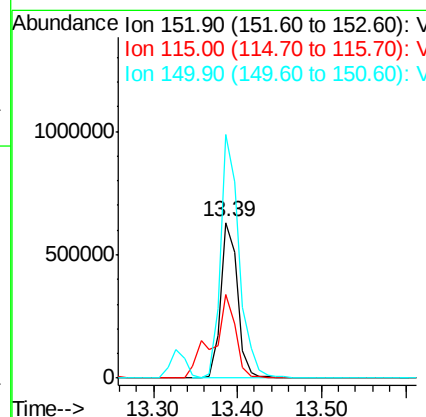
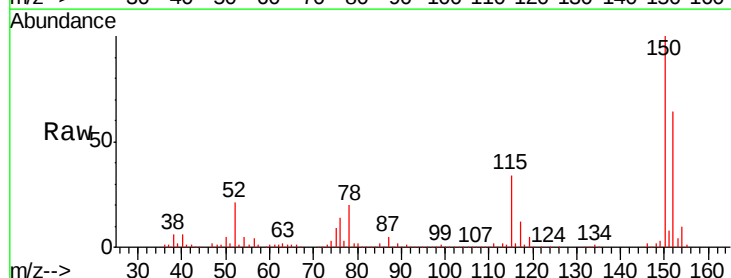
RT: 13.39 min Scan# 1236

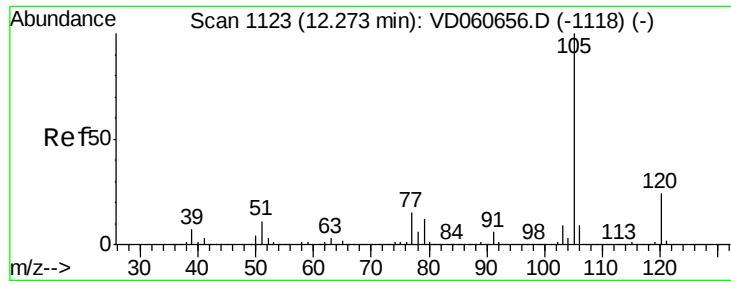
Delta R.T. 0.01 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Tgt Ion:	152	Resp:	875745
Ion Ratio	Lower	Upper	
152	100		
115	53.4	24.1	72.3
150	156.4	0.0	315.0





#73

Isopropylbenzene

Concen: 52.993 ug/l

RT: 12.29 min Scan# 1125

Delta R.T. 0.02 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion: 105 Resp: 3304227

Ion Ratio Lower Upper

105 100

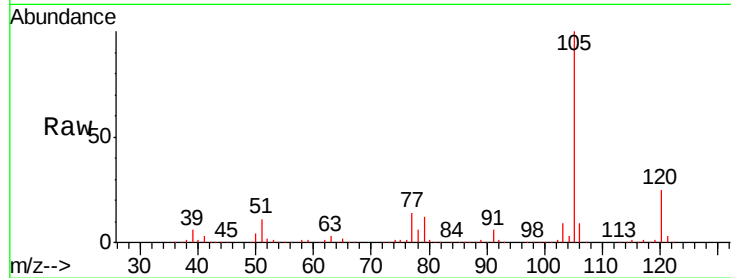
120 24.5 12.2 36.4

Manual Integrations

APPROVED

MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

2500000

2000000

1500000

1000000

500000

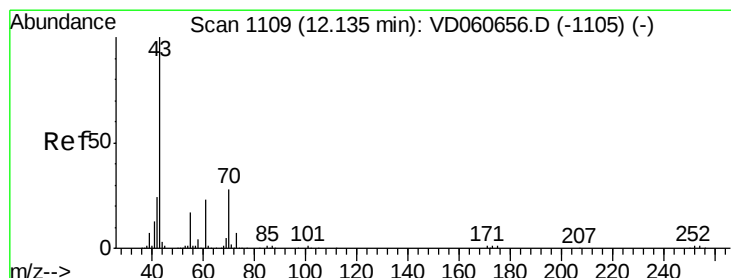
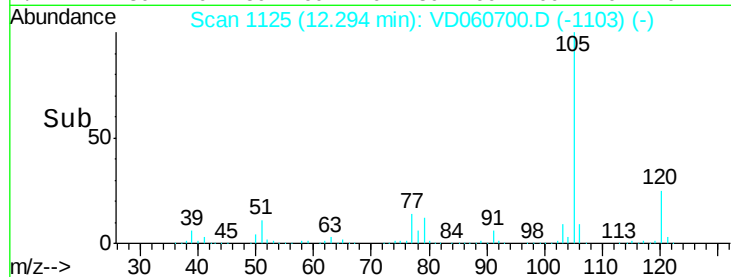
0

12.29

12.30

12.40

Time-->



#74

N-ethyl acetate

Concen: 51.800 ug/l

RT: 12.16 min Scan# 1111

Delta R.T. 0.02 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Tgt Ion: 43 Resp: 762283

Ion Ratio Lower Upper

43 100

70 30.1 22.2 33.2

55 18.2 13.8 20.8

61 23.3 18.2 27.2

Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

600000

400000

200000

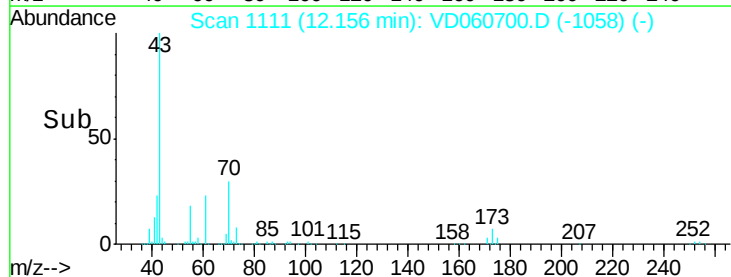
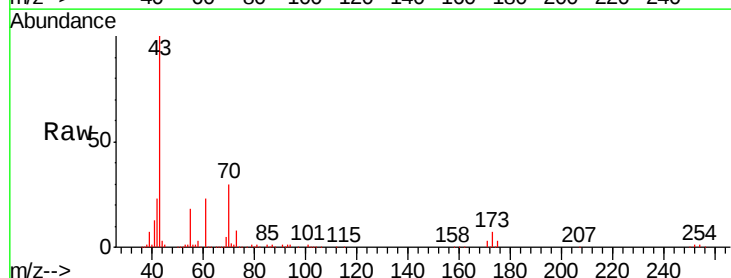
0

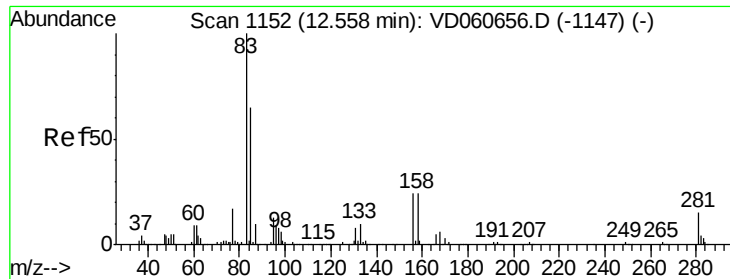
12.16

12.20

12.30

Time-->





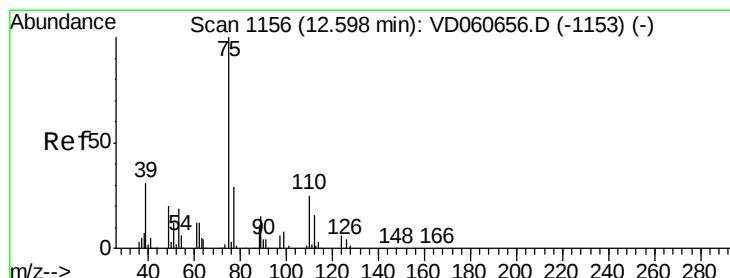
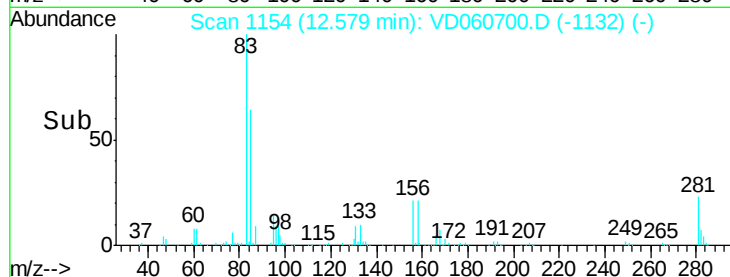
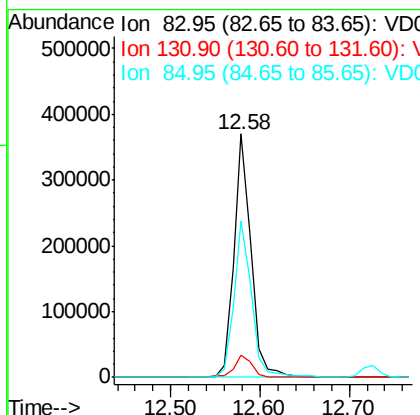
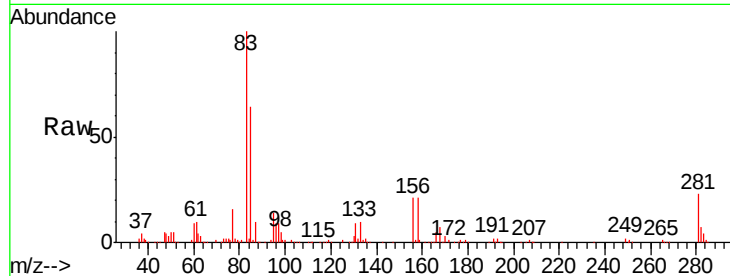
#75
 1,1,2,2-Tetrachloroethane
 Concen: 49.667 ug/l
 RT: 12.58 min Scan# 1154
 Delta R.T. 0.02 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	501957		
131	9.0	4.2	12.4	
85	64.4	32.6	97.7	

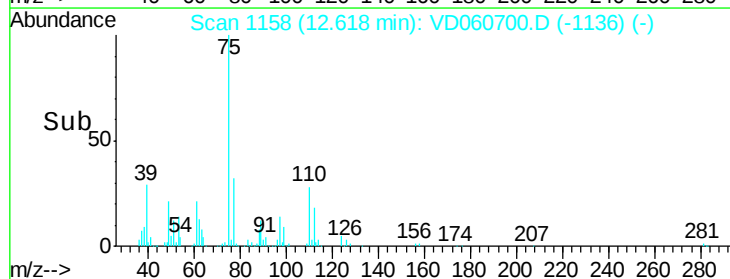
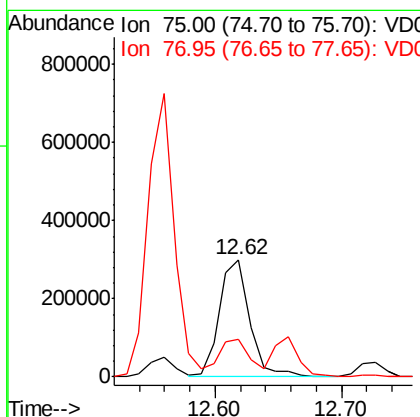
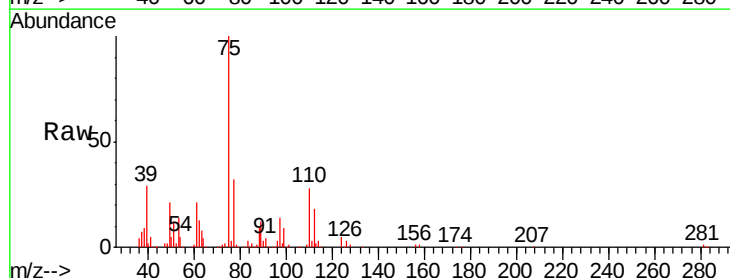
Manual Integrations
 APPROVED

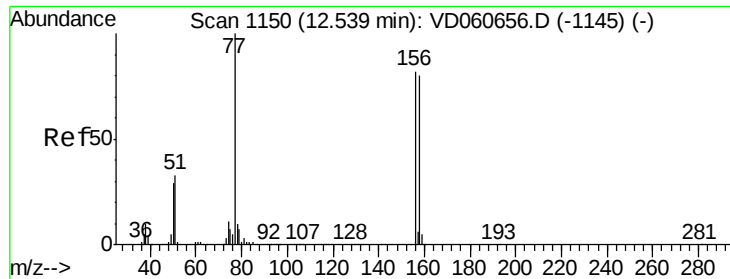
MMDadoda
 12/26/2018 11:04:06 AM



#76
 1,2,3-Trichloropropane
 Concen: 49.934 ug/l
 RT: 12.62 min Scan# 1158
 Delta R.T. 0.02 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	497854		
77	31.7	16.7	50.0	





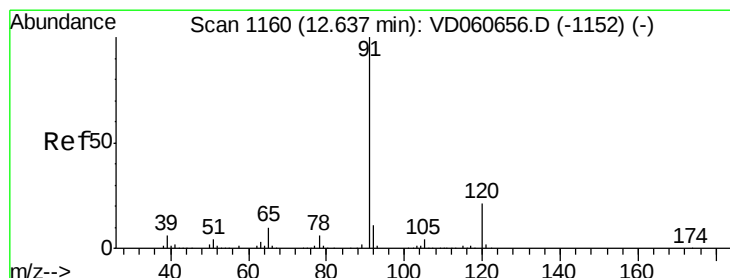
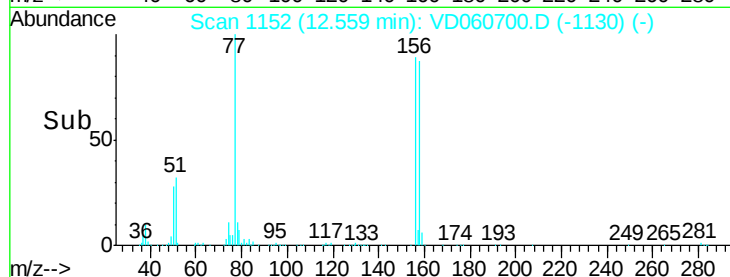
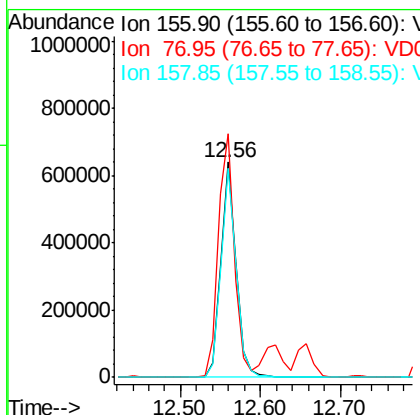
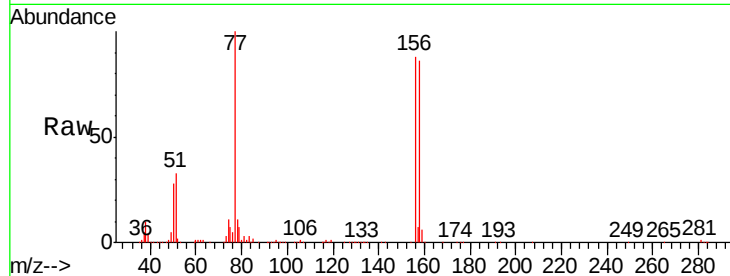
#77
Bromobenzene
Concen: 52.921 ug/l
RT: 12.56 min Scan# 1152
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
156	100		
77	113.3	61.3	183.9
158	97.4	48.9	146.6

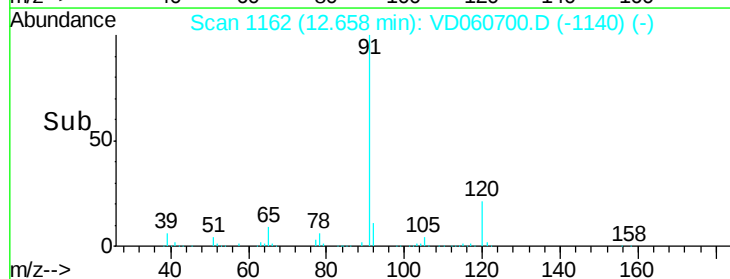
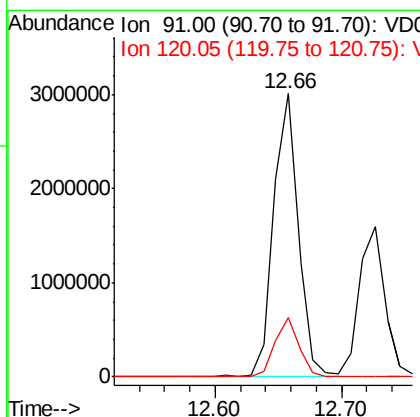
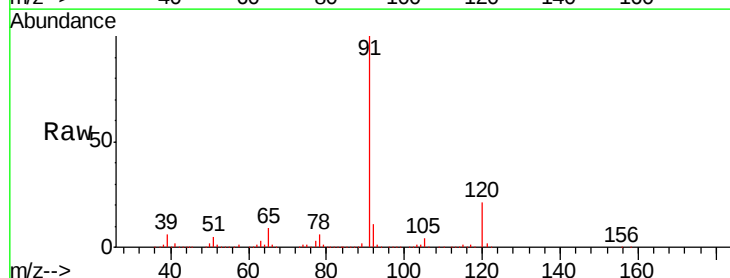
Manual Integrations
APPROVED

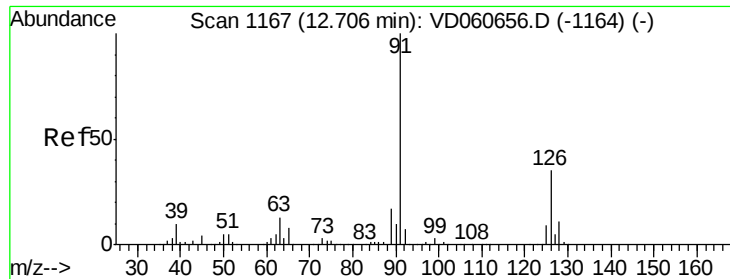
MMDadoda
12/26/2018 11:04:06 AM



#78
n-propylbenzene
Concen: 51.665 ug/l
RT: 12.66 min Scan# 1162
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.1	10.4	31.2





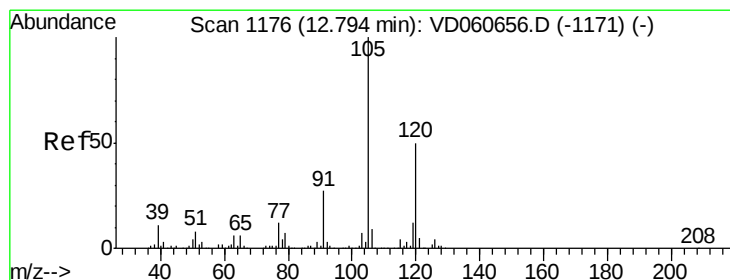
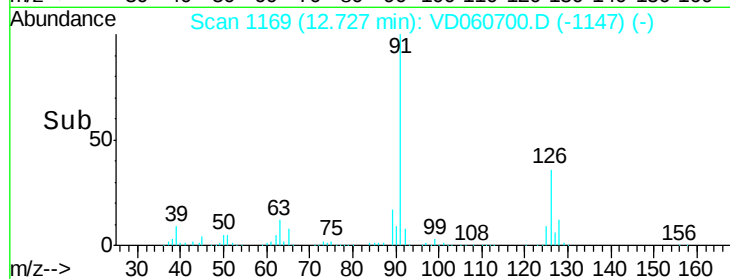
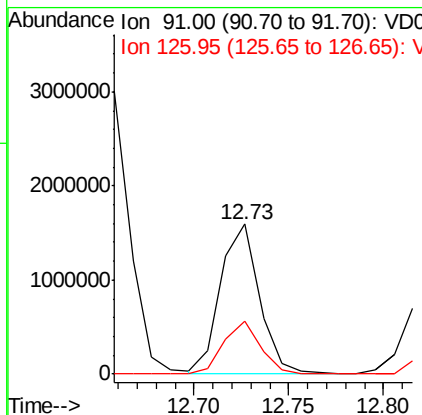
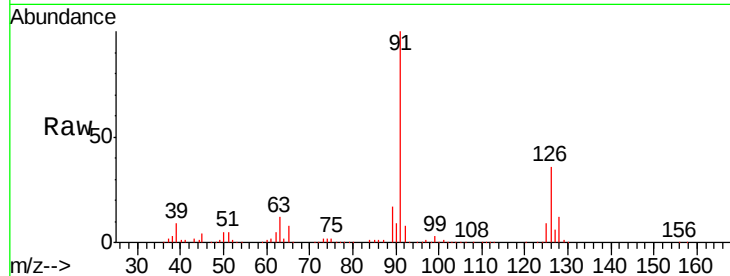
#79
2-Chlorotoluene
Concen: 52.199 ug/l
RT: 12.73 min Scan# 1169
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 2228653
Ion Ratio Lower Upper
91 100
126 35.7 17.2 51.5

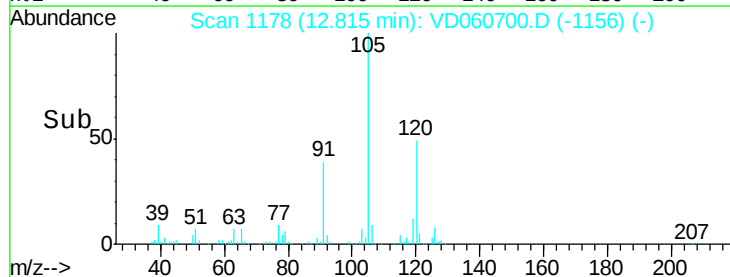
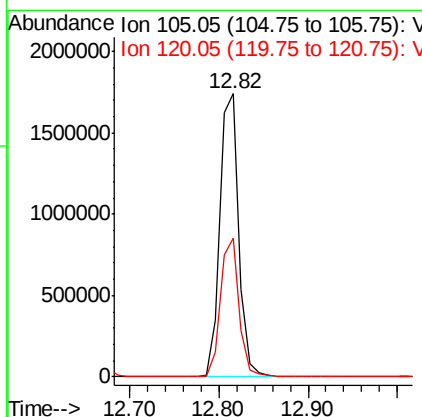
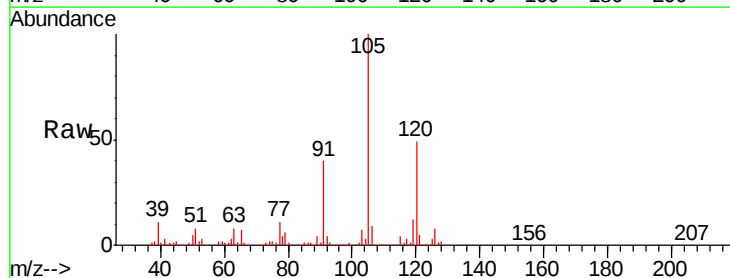
Manual Integrations
APPROVED

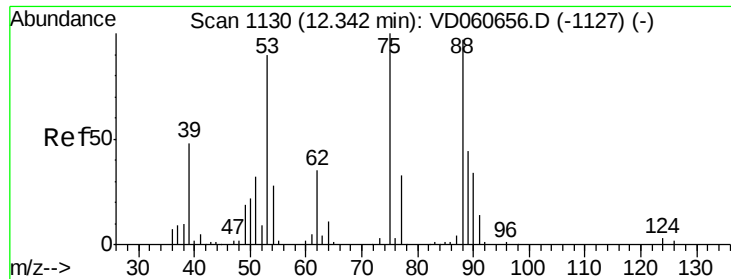
MMDadoda
12/26/2018 11:04:06 AM



#80
1,3,5-Trimethylbenzene
Concen: 53.755 ug/l
RT: 12.82 min Scan# 1178
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 105 Resp: 2588149
Ion Ratio Lower Upper
105 100
120 49.2 24.8 74.4





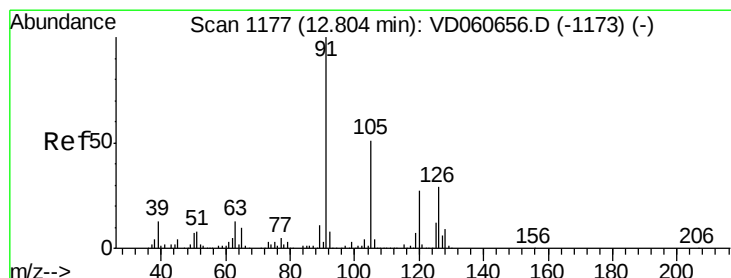
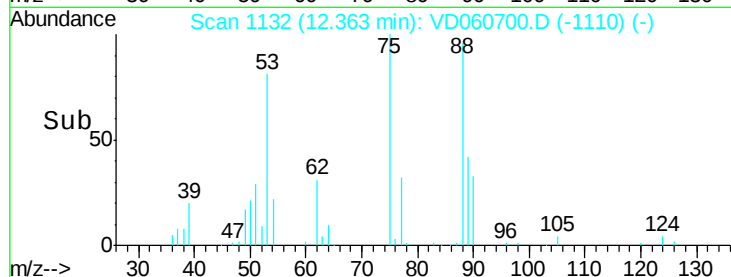
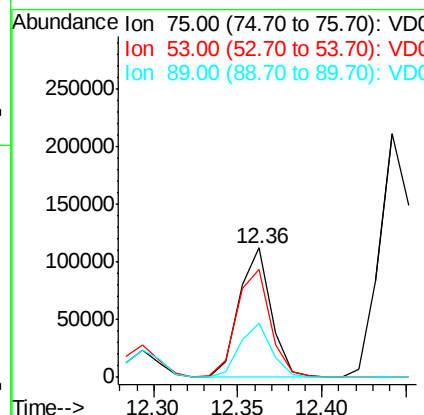
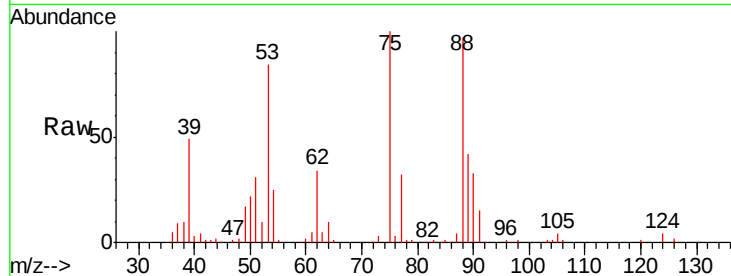
#81
trans-1,4-Dichloro-2-butene
Concen: 53.301 ug/l
RT: 12.36 min Scan# 1132
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
75	100		
53	83.6	72.1	108.1
89	41.6	35.1	52.7

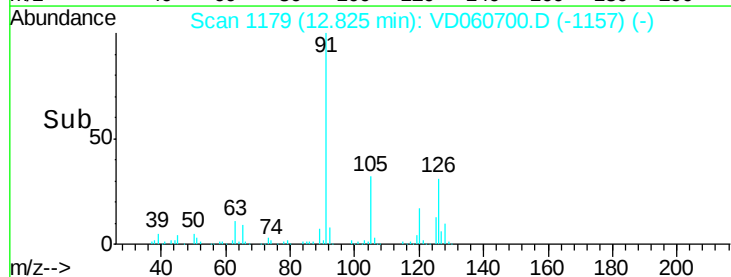
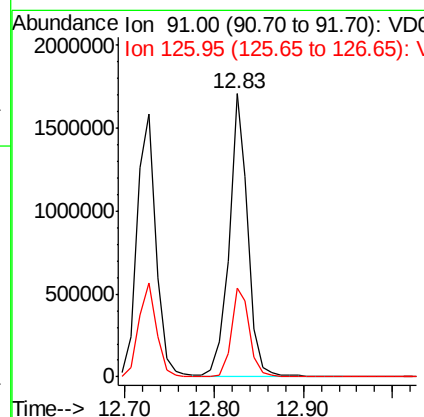
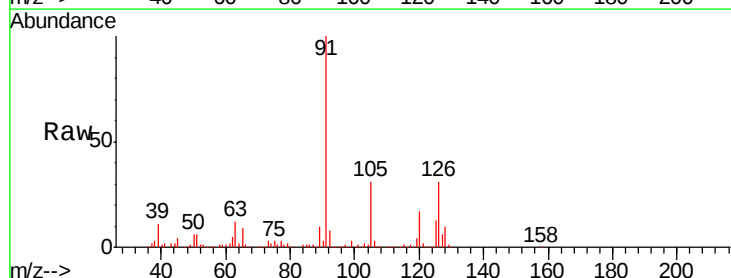
Manual Integrations
APPROVED

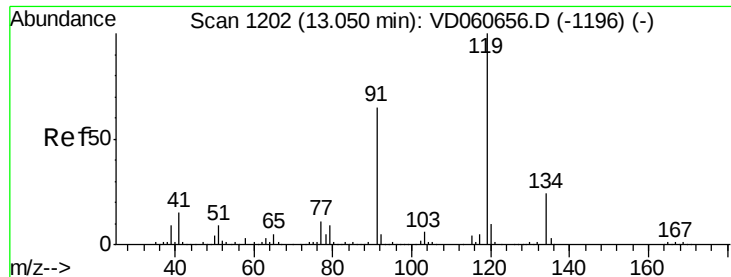
MMDadoda
12/26/2018 11:04:06 AM



#82
4-Chlorotoluene
Concen: 51.631 ug/l
RT: 12.83 min Scan# 1179
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.2	14.6	43.8





#83

tert-Butylbenzene

Concen: 52.871 ug/l

RT: 13.06 min Scan# 1203

Delta R.T. 0.01 min

Lab File: VD060700.D

Acq: 22 Dec 2018 10:50

Instrument :

MSVOA_D

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 2897071

Ion Ratio Lower Upper

119 100

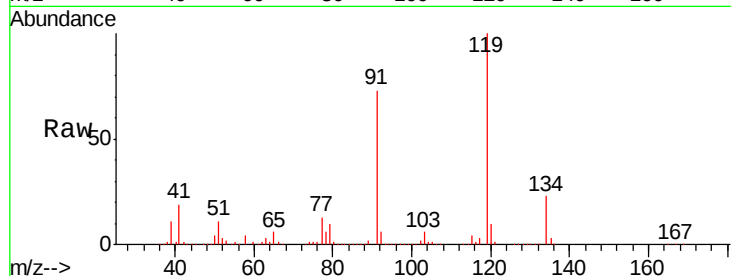
91 72.9 32.5 97.4

134 23.3 11.9 35.9

Manual Integrations
APPROVED

MMDadoda

12/26/2018 11:04:06 AM



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V

13.06

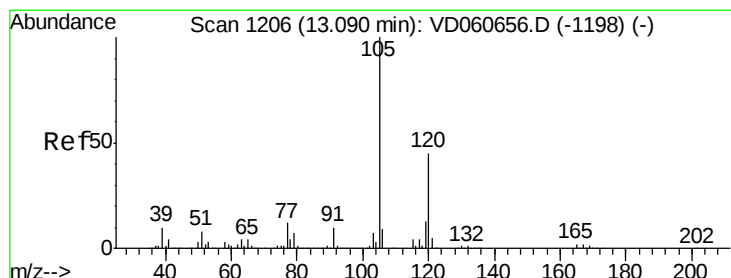
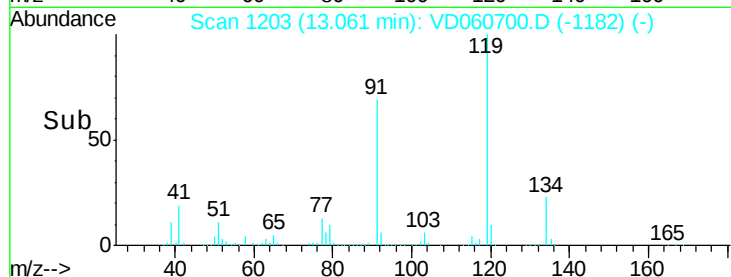
1500000

1000000

500000

0

Time-->



#84

1,2,4-Trimethylbenzene

Concen: 51.885 ug/l

RT: 13.11 min Scan# 1208

Delta R.T. 0.02 min

Lab File: VD060700.D

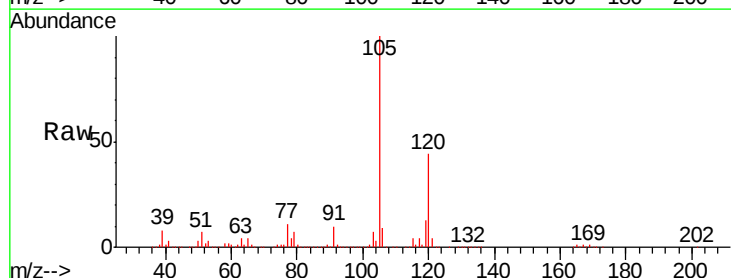
Acq: 22 Dec 2018 10:50

Tgt Ion:105 Resp: 2572892

Ion Ratio Lower Upper

105 100

120 44.4 22.4 67.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

3000000

2500000

2000000

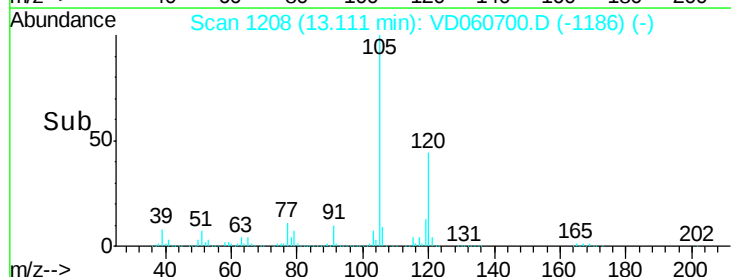
1500000

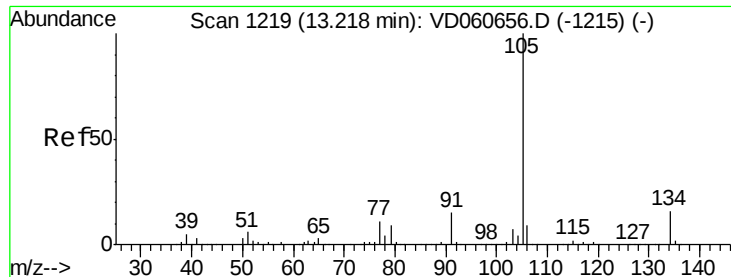
1000000

500000

0

Time-->





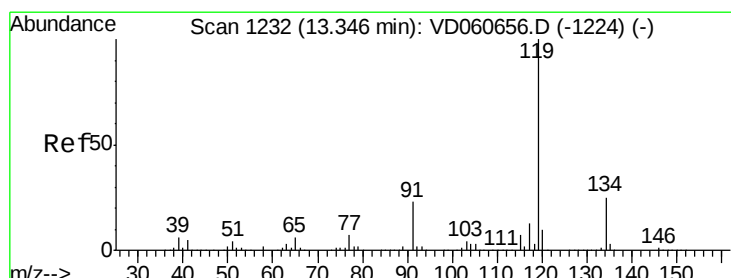
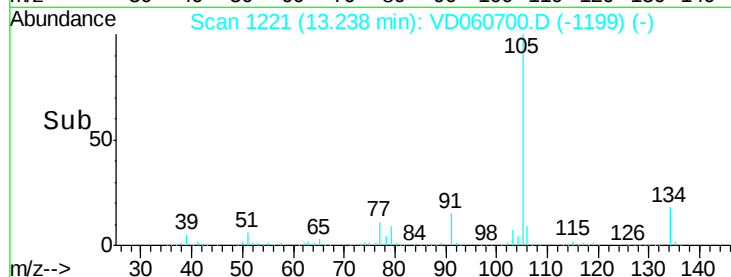
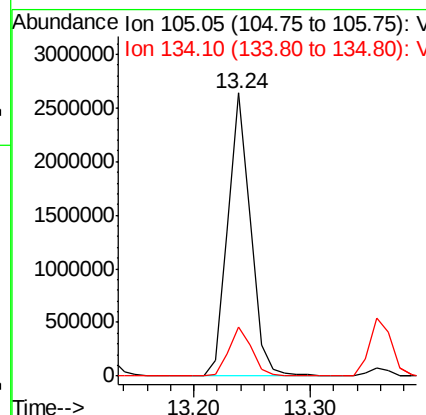
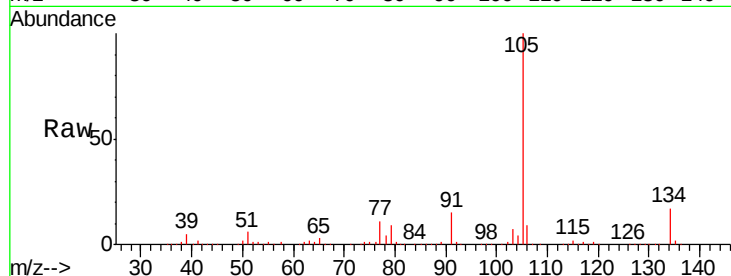
#85
 sec-Butylbenzene
 Concen: 53.166 ug/l
 RT: 13.24 min Scan# 1221
 Delta R.T. 0.02 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion:105 Resp: 3552762
 Ion Ratio Lower Upper
 105 100
 134 17.5 8.2 24.4

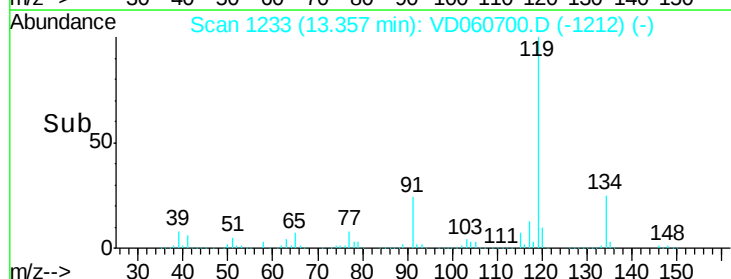
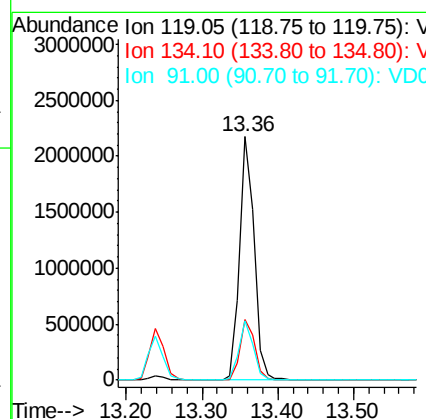
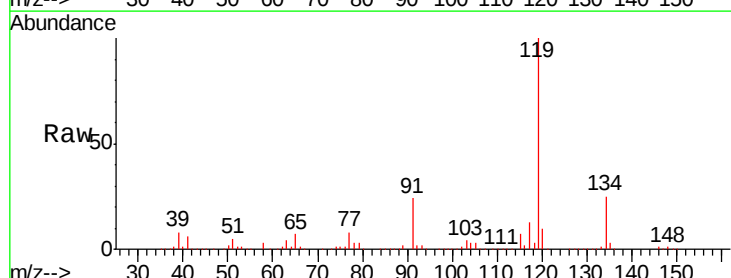
Manual Integrations
 APPROVED

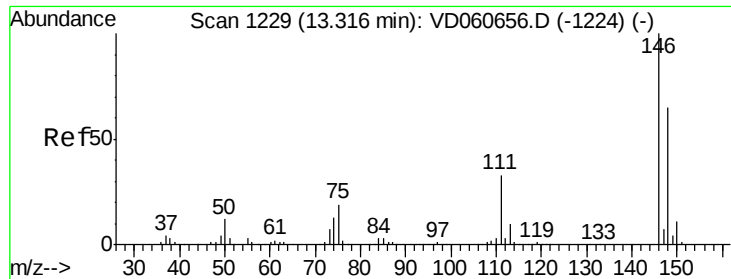
MMDadoda
 12/26/2018 11:04:06 AM



#86
 p-Isopropyltoluene
 Concen: 52.813 ug/l
 RT: 13.36 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion:119 Resp: 2848809
 Ion Ratio Lower Upper
 119 100
 134 25.0 12.5 37.5
 91 24.1 11.4 34.2





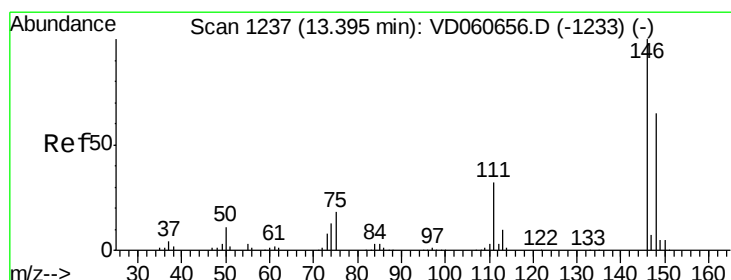
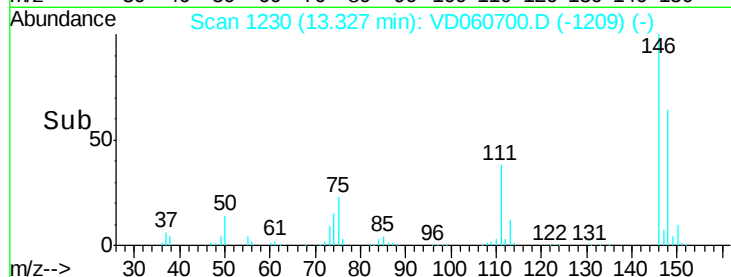
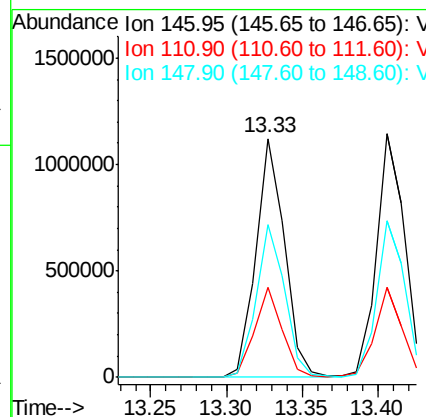
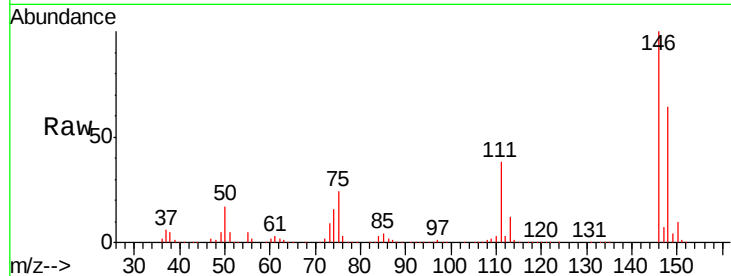
#87
 1,3-Dichlorobenzene
 Concen: 49.146 ug/l
 RT: 13.33 min Scan# 1230
 Delta R.T. 0.01 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	16.6	49.8
148	64.0	32.6	97.8

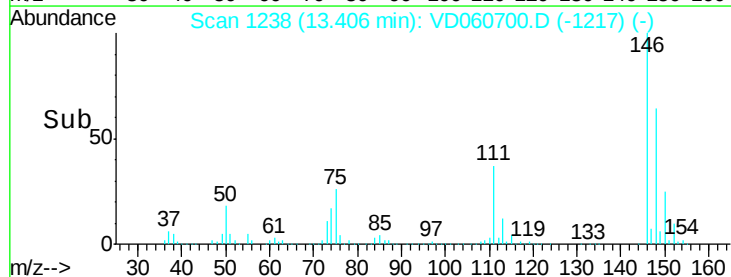
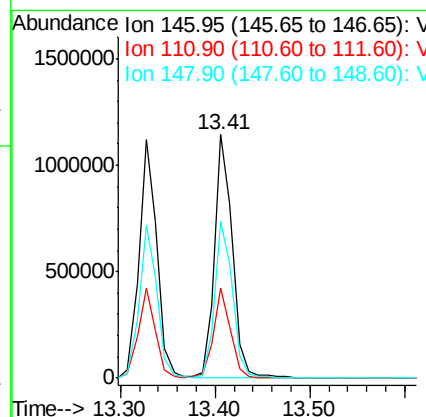
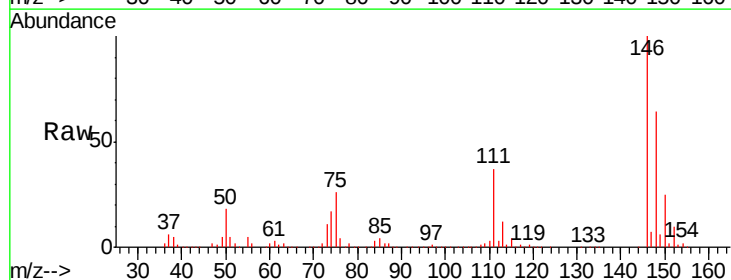
Manual Integrations
 APPROVED

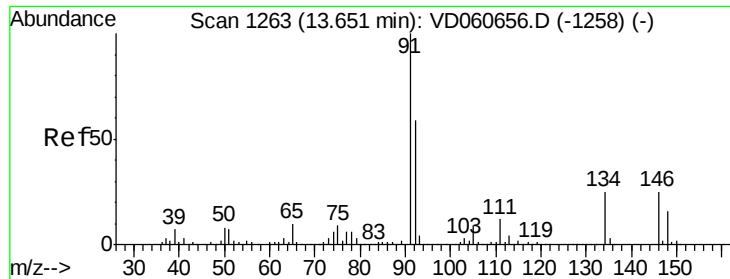
MMDadoda
 12/26/2018 11:04:06 AM



#88
 1,4-Dichlorobenzene
 Concen: 50.570 ug/l
 RT: 13.41 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	16.2	48.5
148	64.4	32.7	98.1





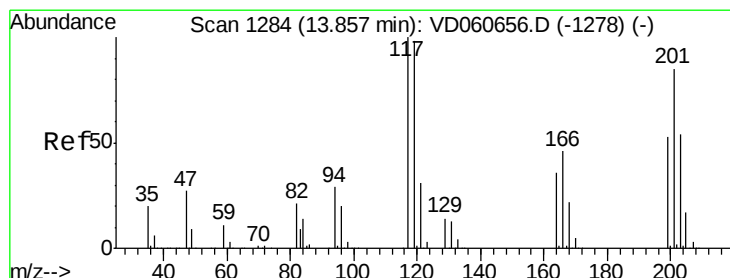
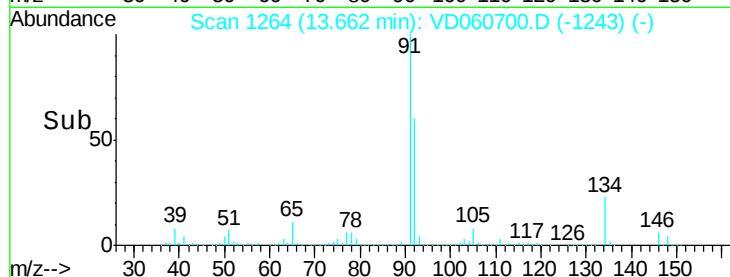
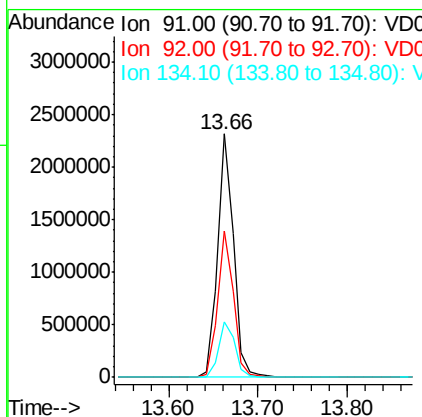
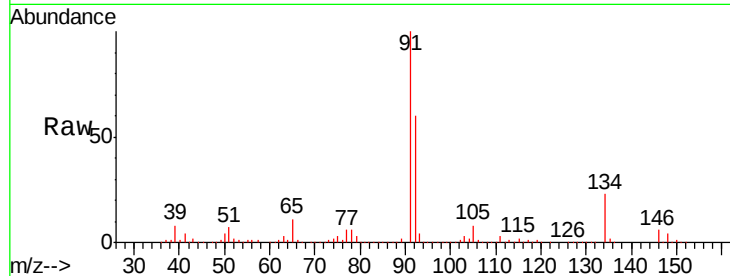
#89
n-Butylbenzene
Concen: 52.593 ug/l
RT: 13.66 min Scan# 1264
Delta R.T. 0.01 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 2899039
Ion Ratio Lower Upper
91 100
92 60.1 29.7 89.1
134 22.6 12.7 38.1

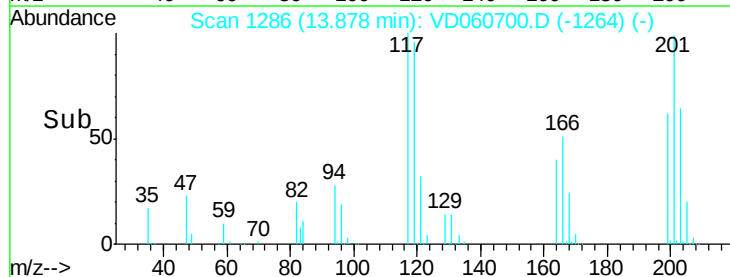
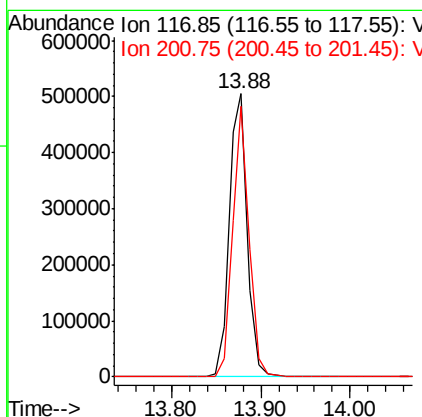
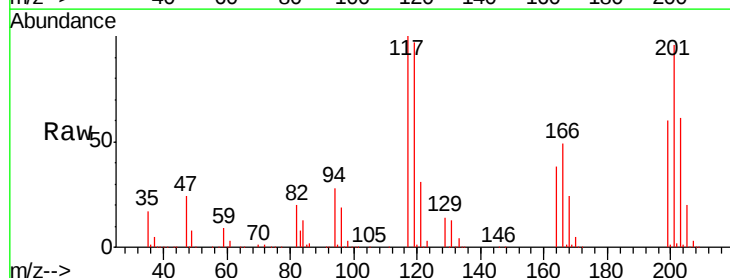
Manual Integrations
APPROVED

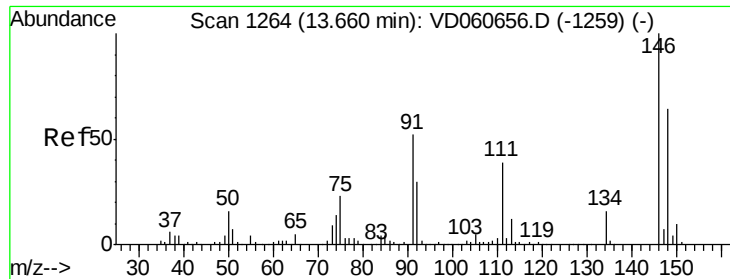
MMDadoda
12/26/2018 11:04:06 AM



#90
Hexachloroethane
Concen: 54.622 ug/l
RT: 13.88 min Scan# 1286
Delta R.T. 0.02 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion: 117 Resp: 723821
Ion Ratio Lower Upper
117 100
201 95.6 42.6 127.8





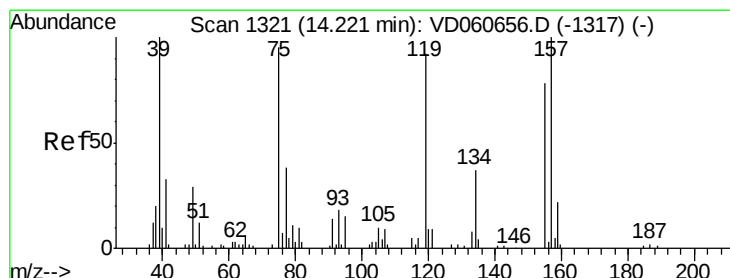
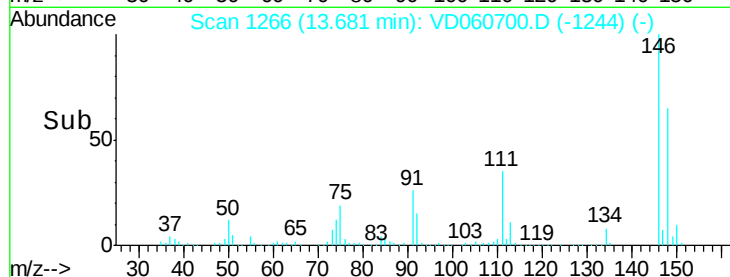
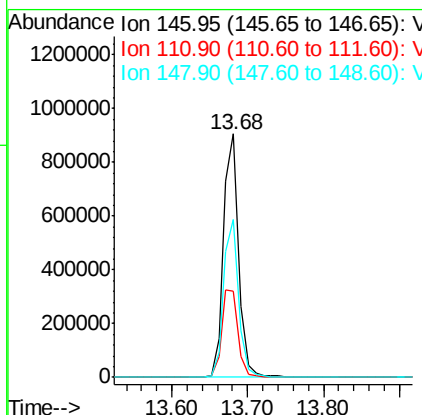
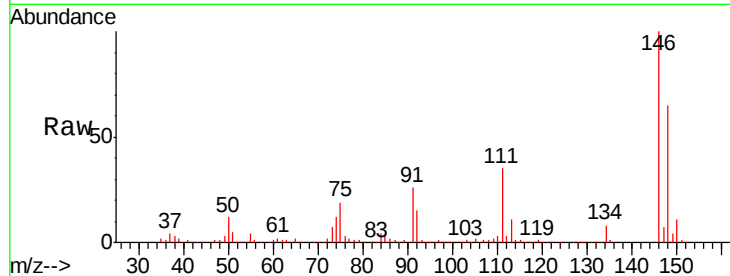
#91
 1,2-Dichlorobenzene
 Concen: 51.966 ug/l
 RT: 13.68 min Scan# 1266
 Delta R.T. 0.02 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

Tgt Ion: 146 Resp: 1259689
 Ion Ratio Lower Upper
 146 100
 111 35.3 19.3 57.9
 148 64.9 31.9 95.9

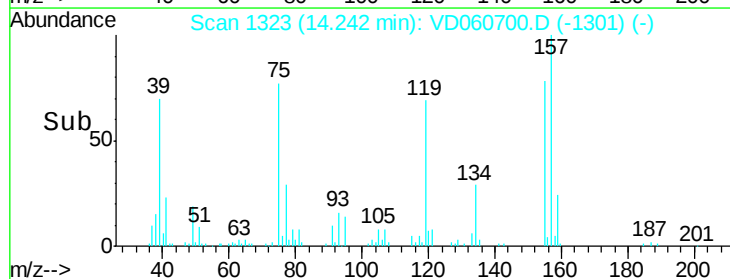
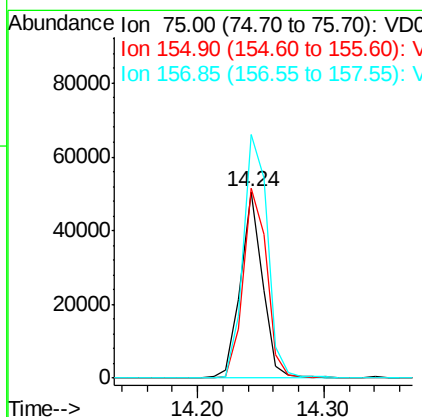
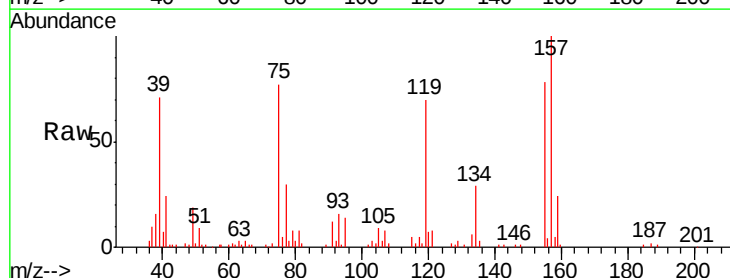
Manual Integrations
 APPROVED

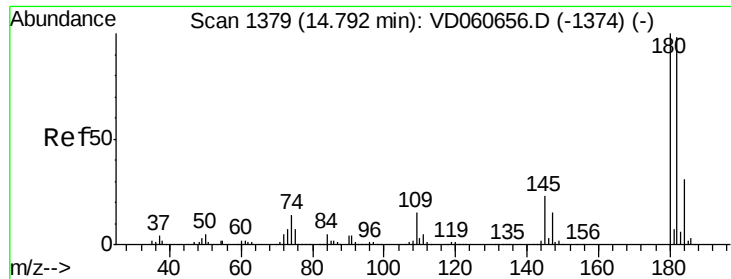
MMDadoda
 12/26/2018 11:04:06 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 51.368 ug/l
 RT: 14.24 min Scan# 1323
 Delta R.T. 0.02 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion: 75 Resp: 60990
 Ion Ratio Lower Upper
 75 100
 155 102.0 41.1 123.4
 157 130.6 52.5 157.6





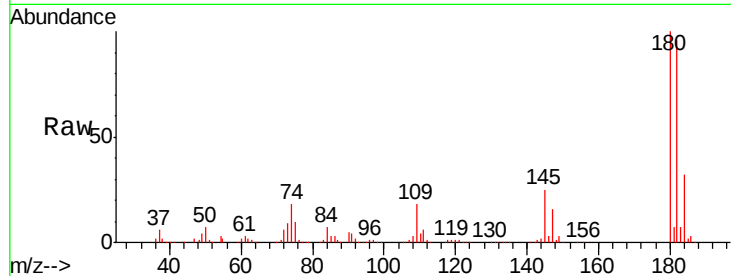
#93
 1,2,4-Trichlorobenzene
 Concen: 51.504 ug/l
 RT: 14.80 min Scan# 1380
 Delta R.T. 0.01 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Instrument :
 MSVOA_D
 ClientSampleId :
 VSTDCCC050

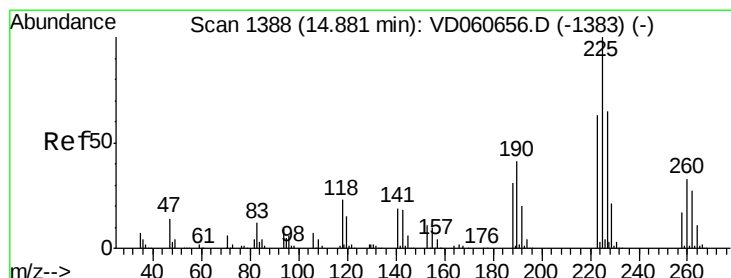
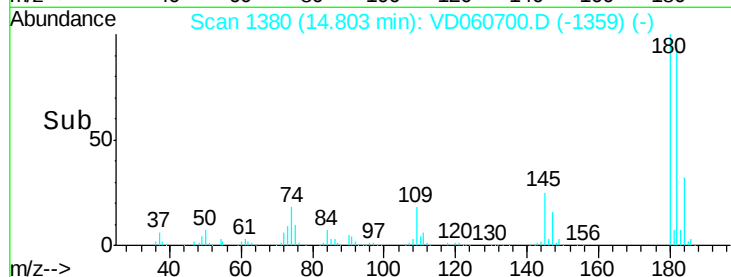
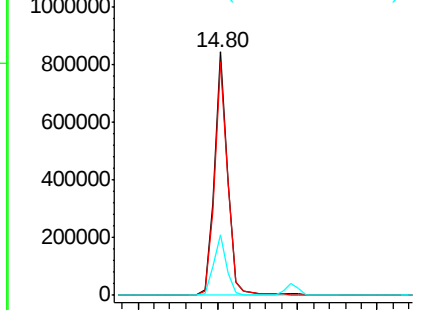
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	993465		
182	96.1	48.8	146.4	
145	25.1	11.8	35.3	

Manual Integrations
 APPROVED

MMDadoda
 12/26/2018 11:04:06 AM

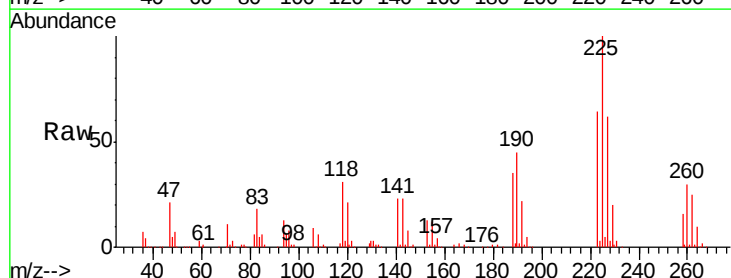


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

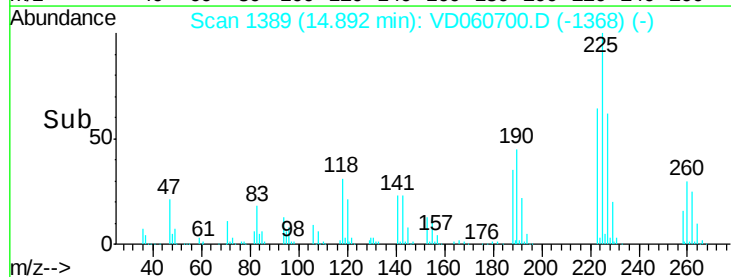
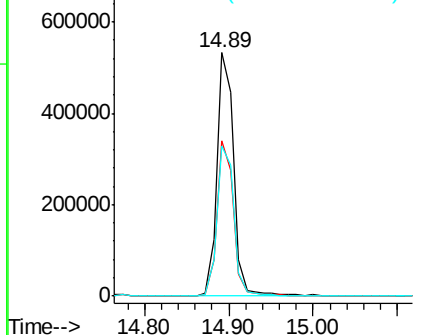


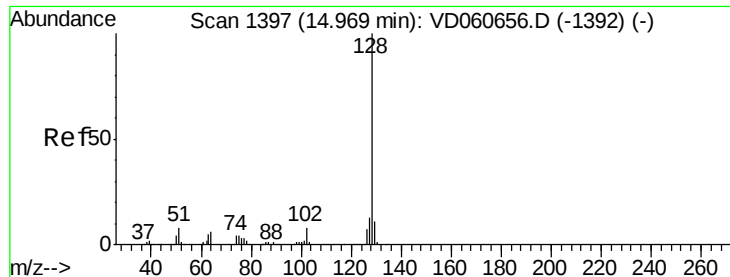
#94
 Hexachlorobutadiene
 Concen: 51.368 ug/l
 RT: 14.89 min Scan# 1389
 Delta R.T. 0.01 min
 Lab File: VD060700.D
 Acq: 22 Dec 2018 10:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	732390		
223	63.7	31.3	93.8	
227	61.9	32.5	97.4	



Abundance Ion 224.75 (224.45 to 225.45): V
 Ion 222.75 (222.45 to 223.45): V
 Ion 226.75 (226.45 to 227.45): V





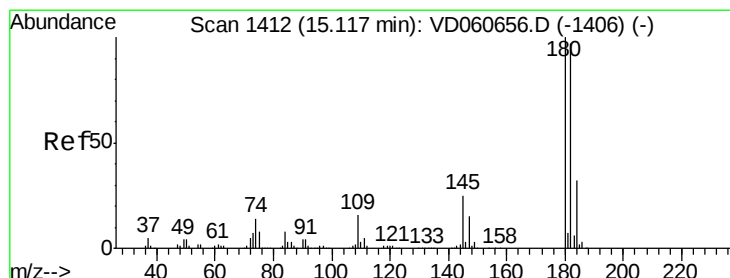
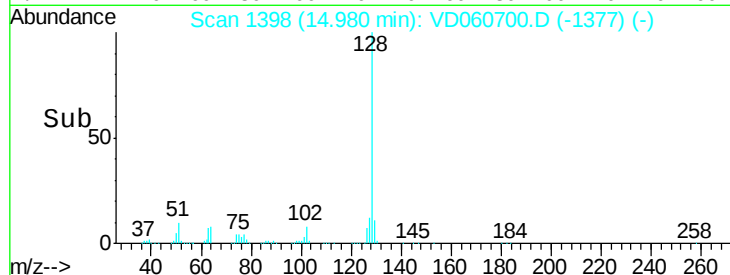
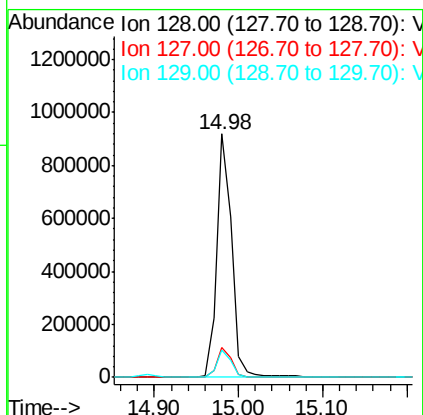
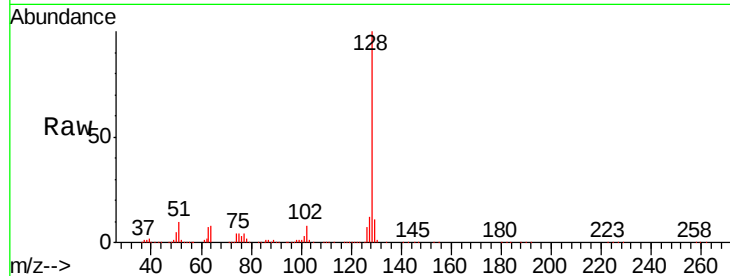
#95
Naphthalene
Concen: 49.224 ug/l
RT: 14.98 min Scan# 1398
Delta R.T. 0.01 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Instrument :
MSVOA_D
ClientSampleId :
VSTDCCC050

Tgt Ion:128 Resp: 1128483
Ion Ratio Lower Upper
128 100
127 12.3 10.1 15.1
129 11.2 8.6 13.0

Manual Integrations
APPROVED

MMDadoda
12/26/2018 11:04:06 AM



#96
1,2,3-Trichlorobenzene
Concen: 52.372 ug/l
RT: 15.13 min Scan# 1413
Delta R.T. 0.01 min
Lab File: VD060700.D
Acq: 22 Dec 2018 10:50

Tgt Ion:180 Resp: 789697
Ion Ratio Lower Upper
180 100
182 95.6 48.6 145.9
145 26.9 12.6 37.8

