

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052319\
 Data File : VD062518.D
 Acq On : 23 May 2019 13:27
 Operator : VA/AP
 Sample : VD0523SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

Quant Time: May 24 01:19:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	575592	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	838104	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	661684	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	342396	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	267427	43.40	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	86.80%	
35) Dibromofluoromethane	6.91	113	304153	40.23	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	80.46%	
50) Toluene-d8	10.41	98	685736	41.44	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	82.88%	
62) 4-Bromofluorobenzene	13.55	95	303066	41.87	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	83.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	123775	19.896	ug/l	100
3) Chloromethane	1.75	50	88796	22.269	ug/l	96
4) Vinyl Chloride	1.84	62	90262	21.512	ug/l	99
5) Bromomethane	2.14	94	31022	17.134	ug/l	100
6) Chloroethane	2.25	64	34224	16.861	ug/l	91
7) Trichlorofluoromethane	2.52	101	167633	17.291	ug/l	98
8) Diethyl Ether	2.87	74	24109	18.435	ug/l	59
9) 1,1,2-Trichlorotrifluoroet	3.13	101	112030	19.424	ug/l	93
10) Methyl Iodide	3.29	142	185051	23.010	ug/l	94
11) Tert butyl alcohol	4.08	59	27817	97.810	ug/l	96
12) 1,1-Dichloroethene	3.12	96	81166	19.041	ug/l	94
13) Acrolein	3.03	56	20280	85.868	ug/l	94
14) Allyl chloride	3.61	41	130266	20.726	ug/l #	81
15) Acrylonitrile	4.19	53	65556	100.595	ug/l #	78
16) Acetone	3.21	43	113668	102.951	ug/l	91
17) Carbon Disulfide	3.36	76	271592	21.038	ug/l	99
18) Methyl Acetate	3.64	43	37756	19.817	ug/l #	88
19) Methyl tert-butyl Ether	4.24	73	198360	20.147	ug/l	99
20) Methylene Chloride	3.80	84	97267	16.451	ug/l	89
21) trans-1,2-Dichloroethene	4.21	96	103975	20.836	ug/l	92
22) Diisopropyl ether	5.11	45	263518	19.698	ug/l	92
23) Vinyl Acetate	5.04	43	762183	94.285	ug/l	96
24) 1,1-Dichloroethane	4.96	63	168675	19.577	ug/l	96
25) 2-Butanone	6.07	43	109026	94.412	ug/l	100
26) 2,2-Dichloropropane	6.02	77	177851	19.149	ug/l	96
27) cis-1,2-Dichloroethene	6.03	96	107058	19.896	ug/l	95
28) Bromochloromethane	6.42	49	61943	20.031	ug/l	81
29) Tetrahydrofuran	6.45	42	53524	97.050	ug/l	96
30) Chloroform	6.66	83	211564	19.260	ug/l	98
31) Cyclohexane	6.94	56	114984	19.765	ug/l	98
32) 1,1,1-Trichloroethane	6.86	97	195081	17.591	ug/l	98
36) 1,1-Dichloropropene	7.14	75	146821	18.323	ug/l	98
37) Ethyl Acetate	6.17	43	61507	19.759	ug/l #	96
38) Carbon Tetrachloride	7.10	117	215238	18.074	ug/l	96

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 Misc : 5.00g/5ml/MSVOA D/SOIL
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Quant Time: May 24 01:19:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.85	83	133444	20.191	ug/l	95
40) Benzene	7.44	78	303375	19.302	ug/l	100
41) Methacrylonitrile	6.44	41	70749	18.097	ug/l #	85
42) 1,2-Dichloroethane	7.57	62	144441	17.355	ug/l	90
43) Isopropyl Acetate	9.23	43	70536	17.081	ug/l	96
44) Trichloroethene	8.53	130	121019	19.231	ug/l	100
45) 1,2-Dichloropropane	8.93	63	73850	19.281	ug/l	97
46) Dibromomethane	9.06	93	60167	17.329	ug/l #	85
47) Bromodichloromethane	9.37	83	156503	17.719	ug/l	97
48) Methyl methacrylate	9.12	41	48310	17.384	ug/l	94
49) 1,4-Dioxane	9.09	88	9646	386.979	ug/l	93
51) 4-Methyl-2-Pentanone	10.30	43	248328	91.027	ug/l	95
52) Toluene	10.50	92	216139	20.088	ug/l	98
53) t-1,3-Dichloropropene	10.91	75	137035	18.635	ug/l	98
54) cis-1,3-Dichloropropene	10.03	75	142927	18.627	ug/l #	89
55) 1,1,2-Trichloroethane	11.18	97	70101	19.223	ug/l	97
56) Ethyl methacrylate	11.04	69	70860	18.177	ug/l #	89
57) 1,3-Dichloropropane	11.40	76	99463	17.785	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.85	63	207088	103.450	ug/l	98
59) 2-Hexanone	11.53	43	182219	91.905	ug/l	96
60) Dibromochloromethane	11.68	129	128994	18.417	ug/l	98
61) 1,2-Dibromoethane	11.80	107	81715	18.183	ug/l	90
64) Tetrachloroethene	11.25	164	108741	19.627	ug/l	95
65) Chlorobenzene	12.39	112	253015	19.884	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	121105	20.618	ug/l	95
67) Ethyl Benzene	12.52	91	462246	21.091	ug/l	99
68) m/p-Xylenes	12.67	106	340446	43.273	ug/l	98
69) o-Xylene	13.04	106	149588	20.152	ug/l	89
70) Styrene	13.07	104	264728	20.964	ug/l	98
71) Bromoform	13.23	173	78808	20.203	ug/l #	97
73) Isopropylbenzene	13.40	105	474818	22.000	ug/l	99
74) N-amyl acetate	13.26	43	106468	19.973	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.69	83	76939	19.760	ug/l	95
76) 1,2,3-Trichloropropane	13.73	75	83344	20.665	ug/l	98
77) Bromobenzene	13.66	156	128458	20.982	ug/l	90
78) n-propylbenzene	13.77	91	518103	20.724	ug/l	99
79) 2-Chlorotoluene	13.84	91	299084	19.714	ug/l	98
80) 1,3,5-Trimethylbenzene	13.93	105	390278	20.885	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.47	75	23937	21.045	ug/l #	80
82) 4-Chlorotoluene	13.94	91	358459	20.516	ug/l	84
83) tert-Butylbenzene	14.18	119	400993	19.345	ug/l	92
84) 1,2,4-Trimethylbenzene	14.23	105	390674	20.403	ug/l	95
85) sec-Butylbenzene	14.36	105	428909	19.844	ug/l	97
86) p-Isopropyltoluene	14.49	119	414226	21.148	ug/l	95
87) 1,3-Dichlorobenzene	14.45	146	232575	21.511	ug/l	99
88) 1,4-Dichlorobenzene	14.53	146	212499	20.367	ug/l	97
89) n-Butylbenzene	14.79	91	378191	20.007	ug/l	96
90) Hexachloroethane	15.00	117	109476	20.224	ug/l	98
91) 1,2-Dichlorobenzene	14.80	146	194669	21.174	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	13905	18.814	ug/l	73

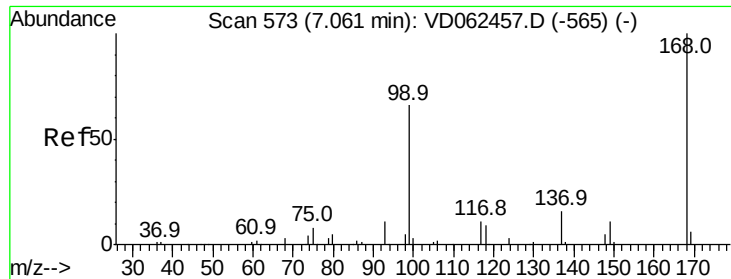
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD052319\
Data File : VD062518.D
Acq On : 23 May 2019 13:27
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Sample : VD0523SBS01
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
Quant Title : SW846 8260
QLast Update : Tue May 21 03:32:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	134329	18.556	ug/l	97
94) Hexachlorobutadiene	16.03	225	103687	19.398	ug/l	97
95) Naphthalene	16.12	128	207551	20.983	ug/l	100
96) 1,2,3-Trichlorobenzene	16.27	180	112992	19.040	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

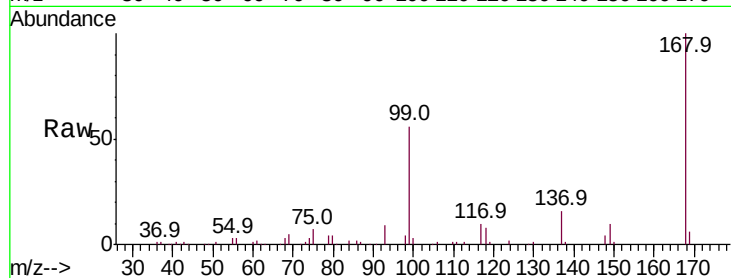
VD0523SBS01

Tot Ion:168 Resp: 575592

Ion Ratio Lower Upper

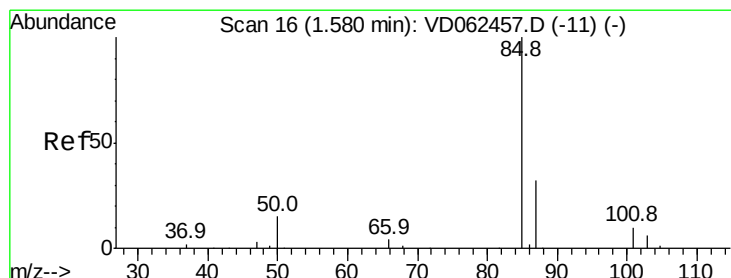
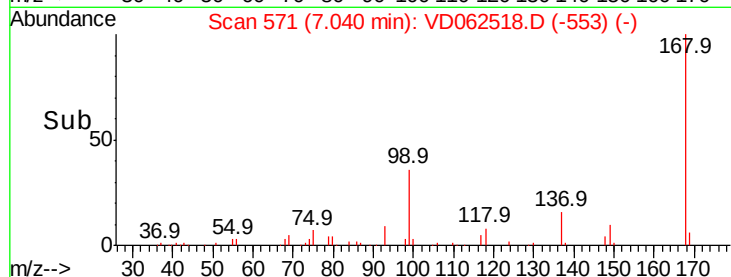
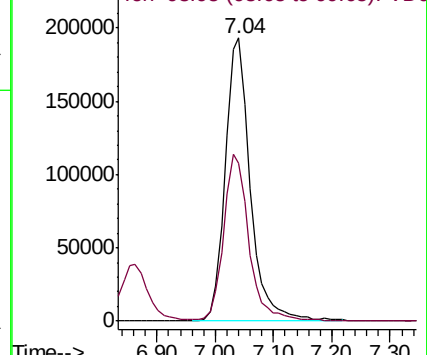
168 100

99 55.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 19.896 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.01 min

Lab File: VD062518.D

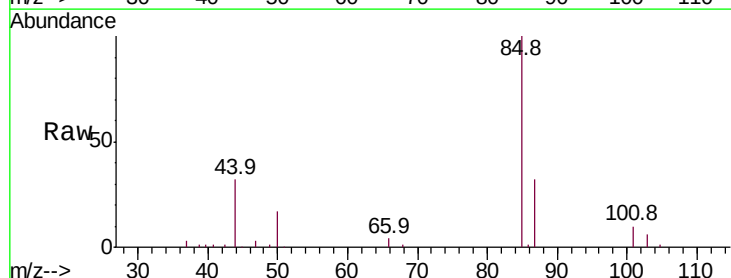
Acq: 23 May 2019 13:27

Tgt Ion: 85 Resp: 123775

Ion Ratio Lower Upper

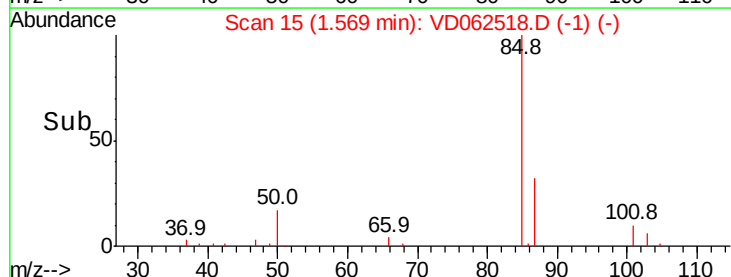
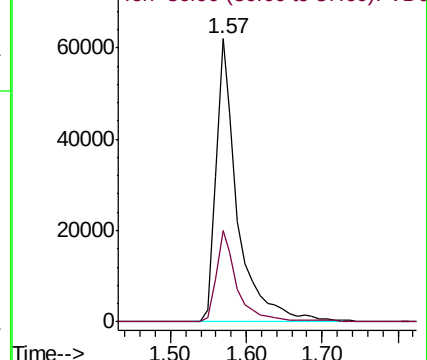
85 100

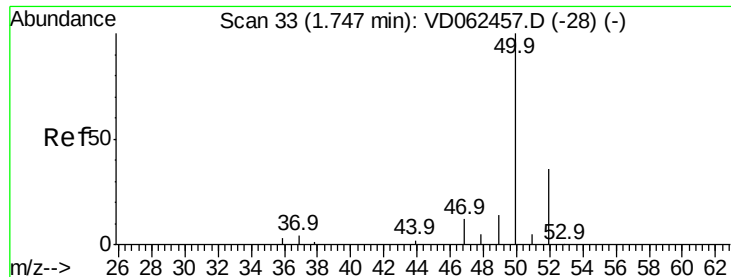
87 32.2 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 22.269 ug/l

RT: 1.75 min Scan# 33

Delta R.T. -0.00 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

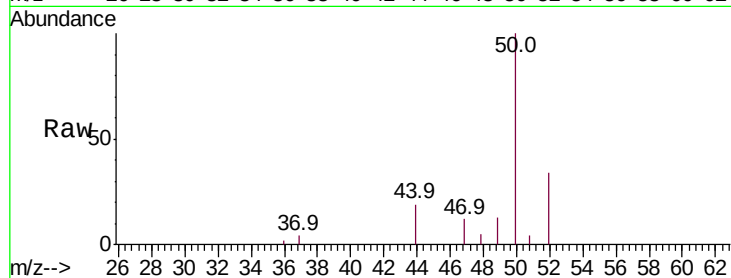
VD0523SBS01

Tot Ion: 50 Resp: 88796

Ion Ratio Lower Upper

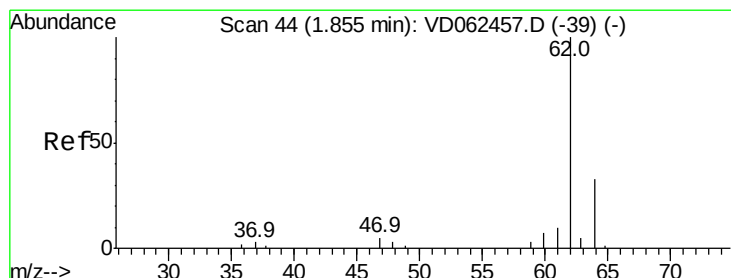
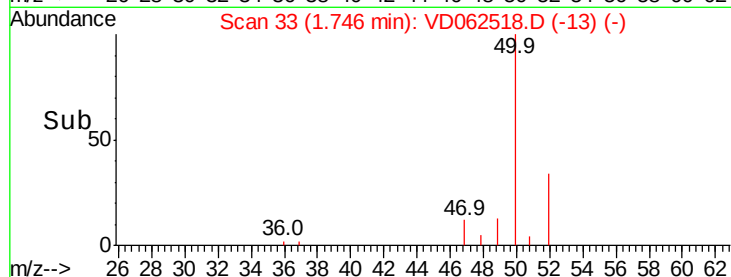
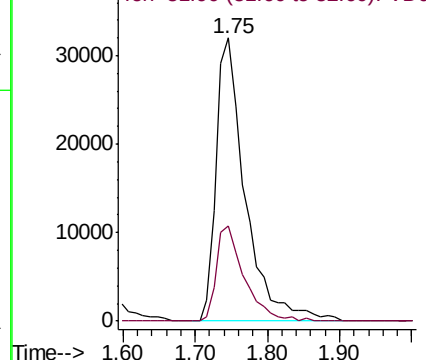
50 100

52 33.8 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.512 ug/l

RT: 1.84 min Scan# 43

Delta R.T. -0.01 min

Lab File: VD062518.D

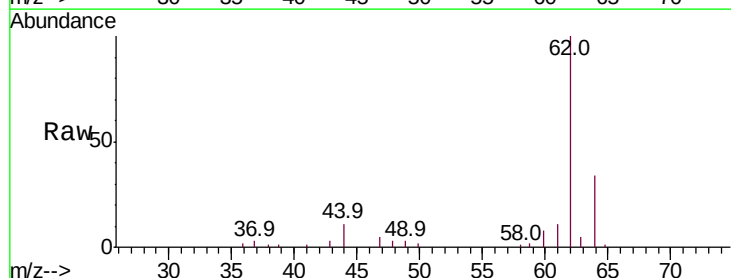
Acq: 23 May 2019 13:27

Tgt Ion: 62 Resp: 90262

Ion Ratio Lower Upper

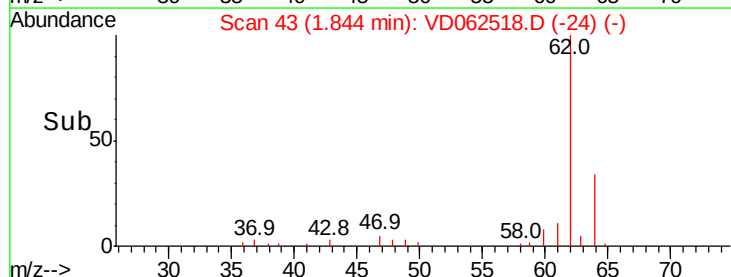
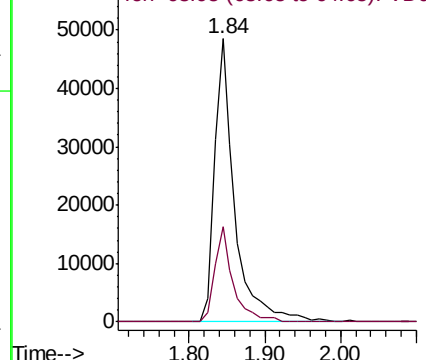
62 100

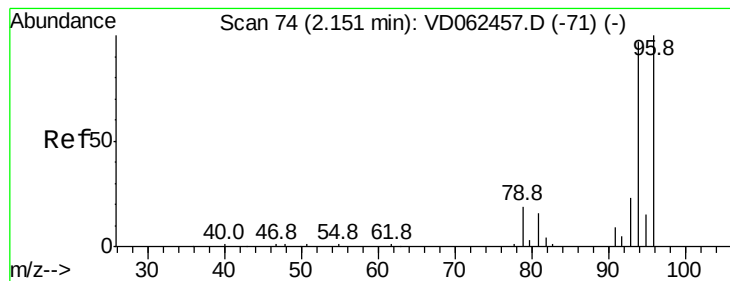
64 33.7 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 17.134 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

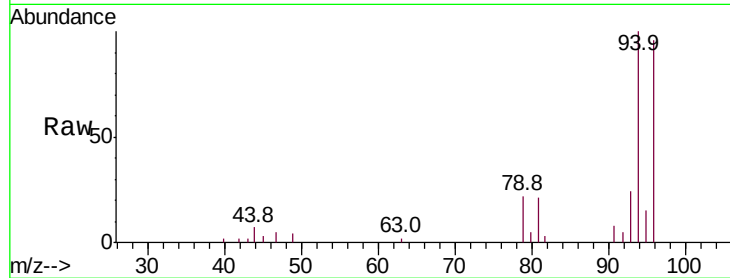
Tot Ion: 94 Resp: 31022

Ion Ratio Lower Upper

94 100

96 96.0 76.6 115.0

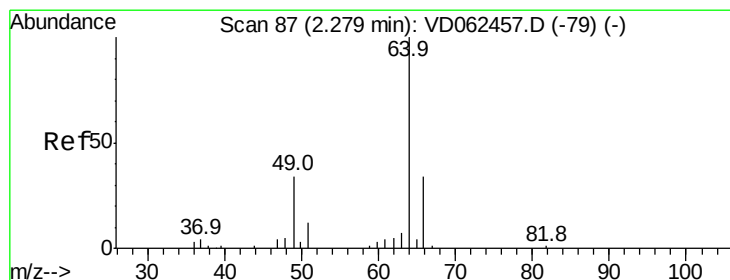
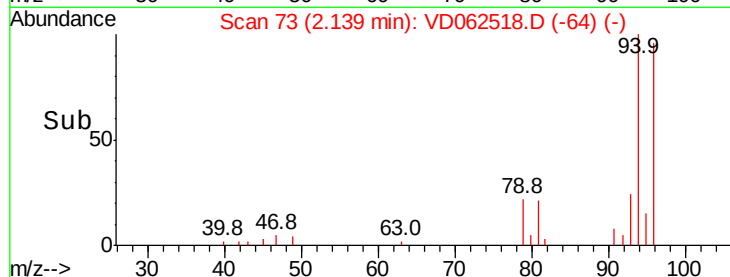
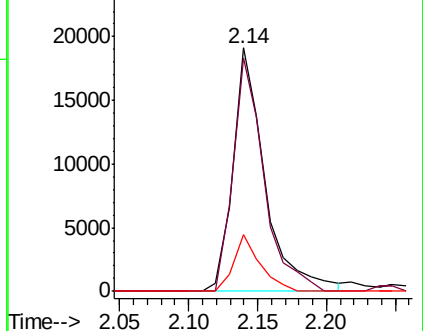
93 23.5 18.5 27.7



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 16.861 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.03 min

Lab File: VD062518.D

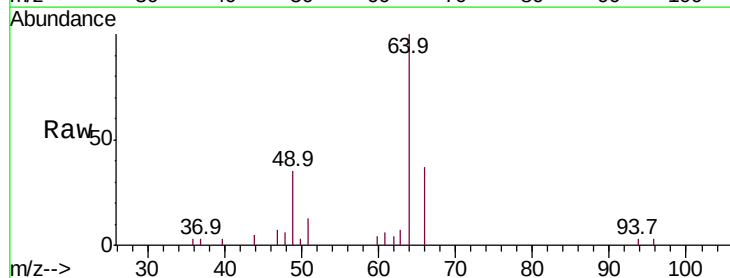
Acq: 23 May 2019 13:27

Tgt Ion: 64 Resp: 34224

Ion Ratio Lower Upper

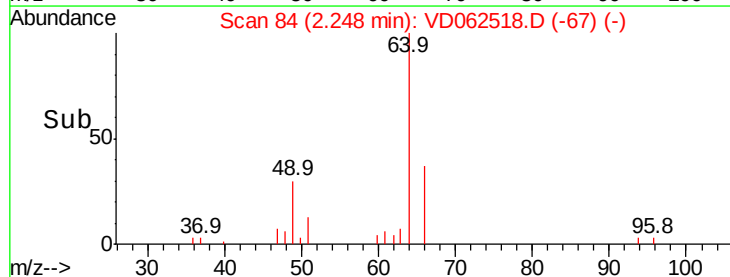
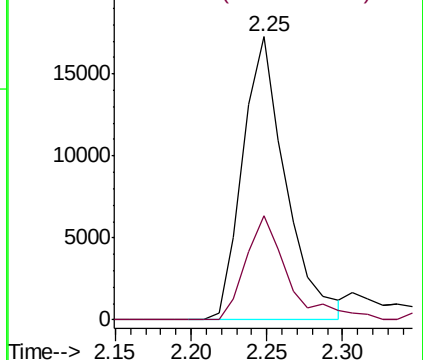
64 100

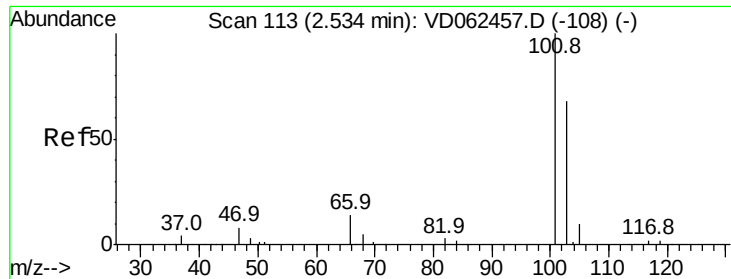
66 37.0 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



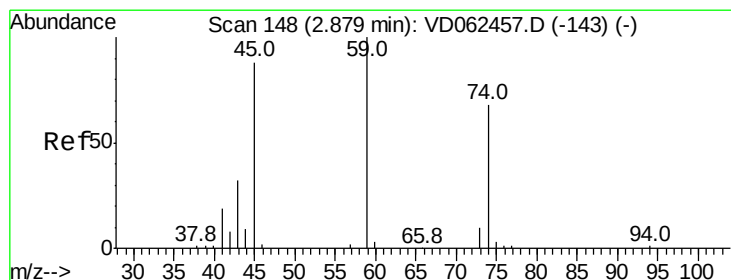
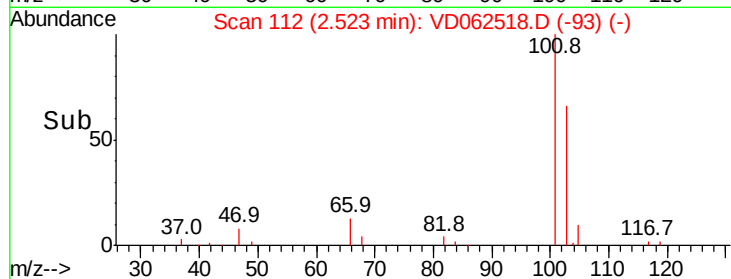
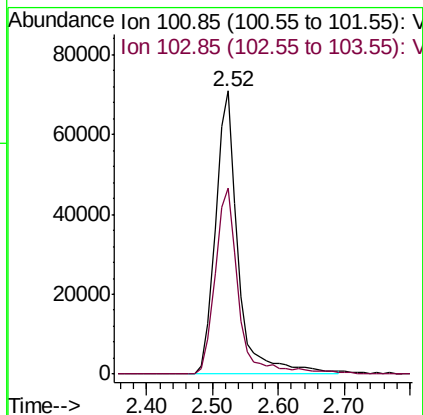
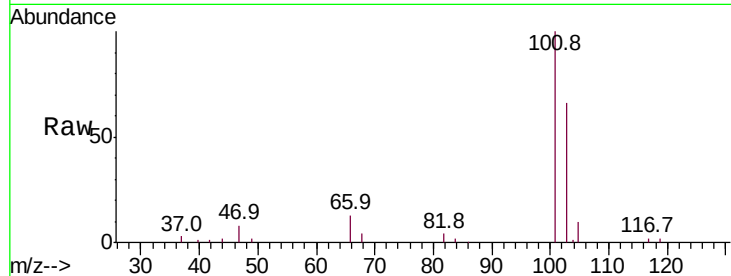


#7

Trichlorofluoromethane
Concen: 17.291 ug/l
RT: 2.52 min Scan# 112
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Instrument :
MSVOA_D
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VD0523SBS01

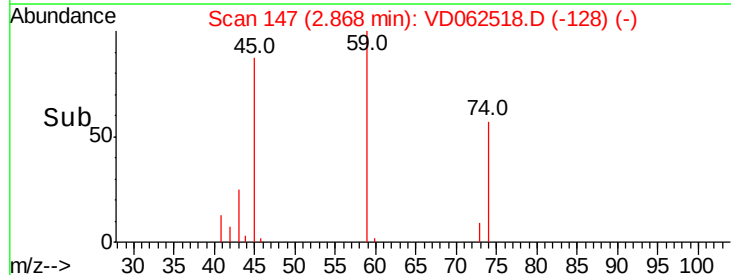
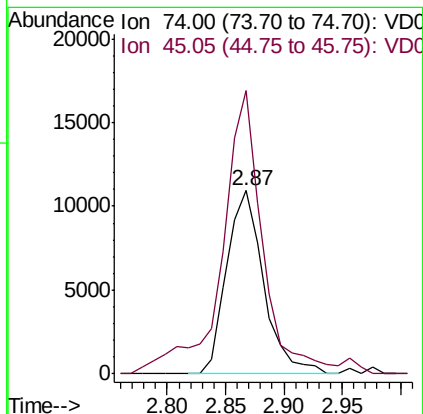
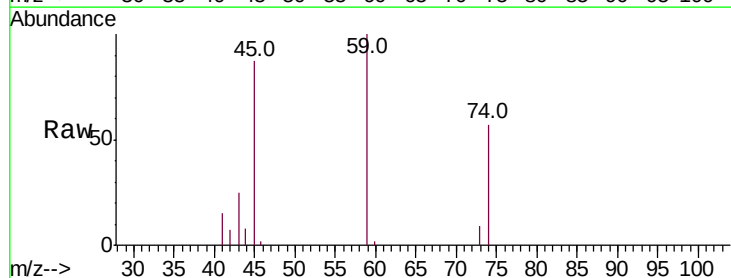
Tot Ion:101 Resp: 167633
Ion Ratio Lower Upper
101 100
103 65.6 53.6 80.4

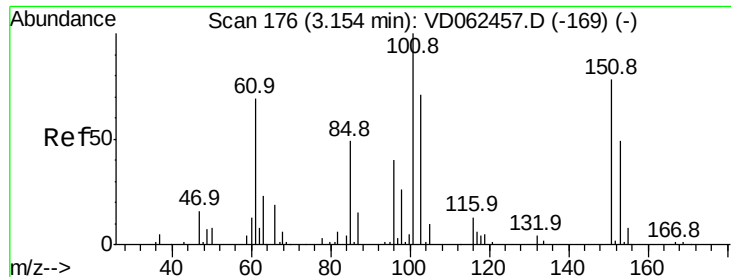


#8

Diethyl Ether
Concen: 18.435 ug/l
RT: 2.87 min Scan# 147
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion: 74 Resp: 24109
Ion Ratio Lower Upper
74 100
45 157.7 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.424 ug/l

RT: 3.13 min Scan# 174

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

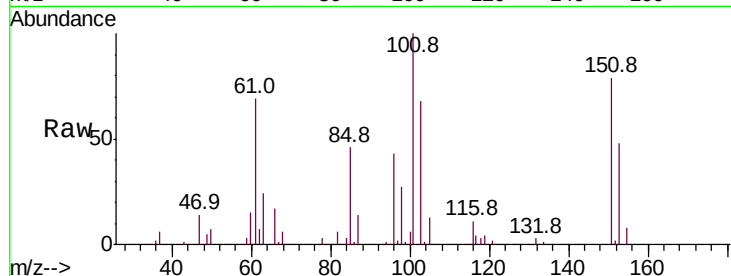
Tot Ion:101 Resp: 112030

Ion Ratio Lower Upper

101 100

85 45.6 32.4 48.6

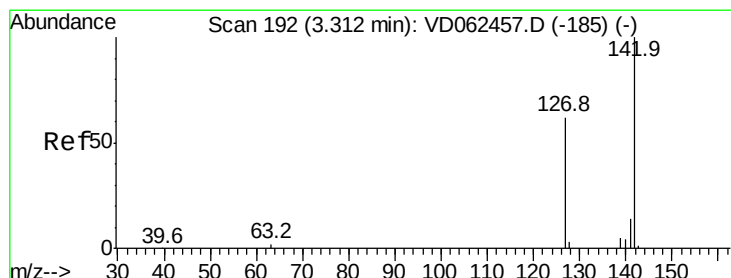
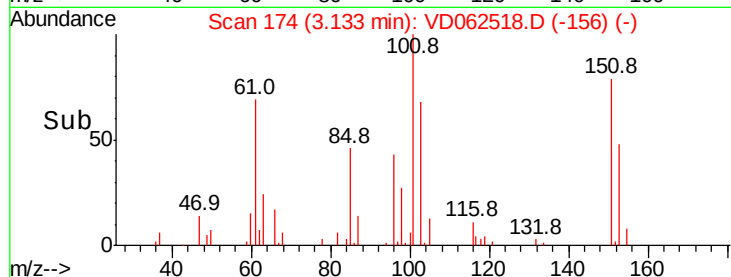
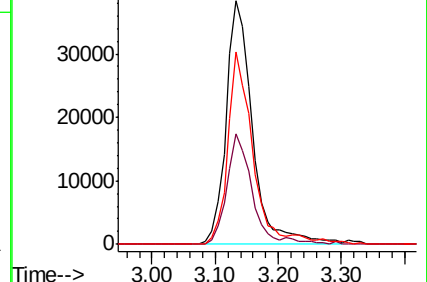
151 79.0 59.4 89.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 23.010 ug/l

RT: 3.29 min Scan# 190

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

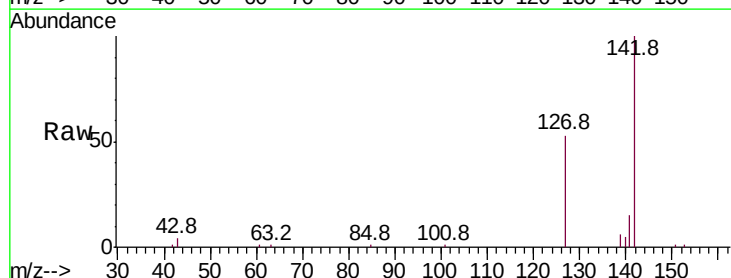
Tgt Ion:142 Resp: 185051

Ion Ratio Lower Upper

142 100

127 53.5 38.8 58.2

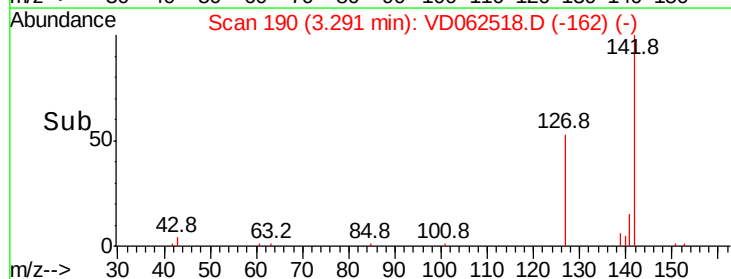
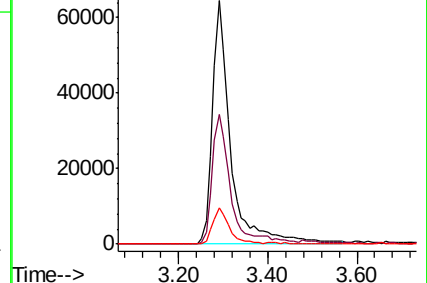
141 15.1 11.4 17.0

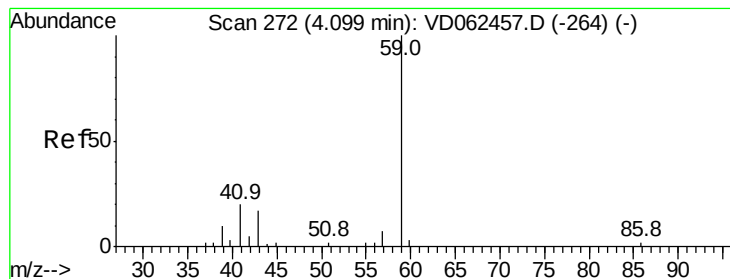


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



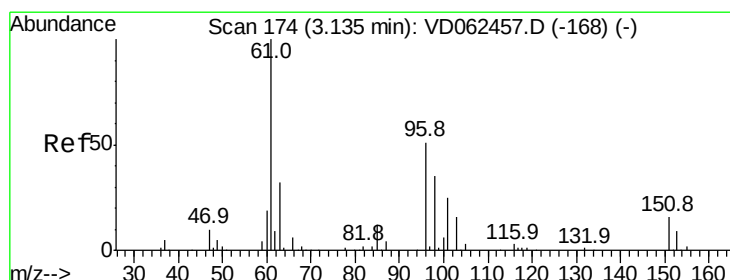
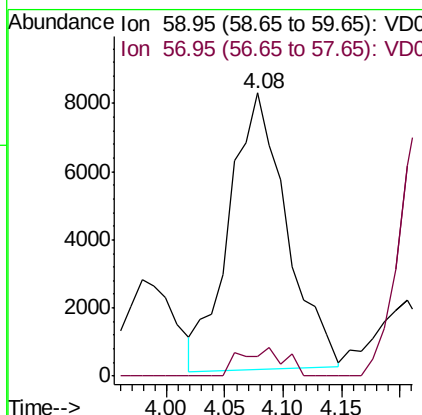
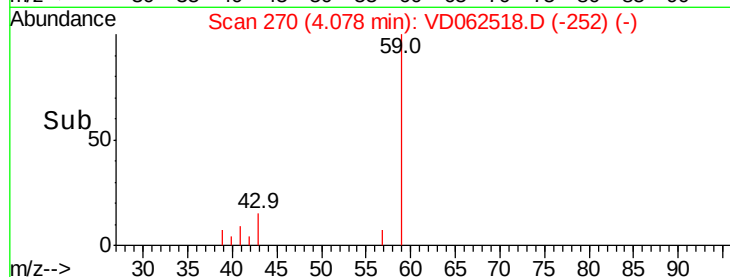
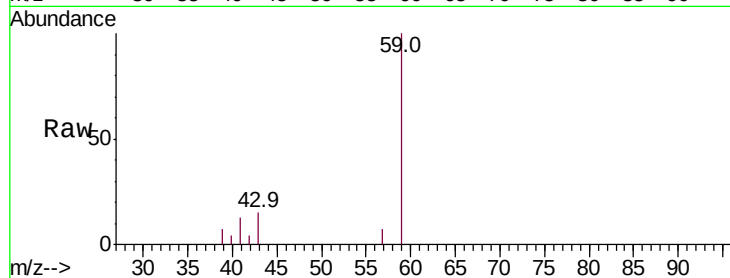


#11

Tert butyl alcohol
 Concen: 97.810 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. -0.02 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

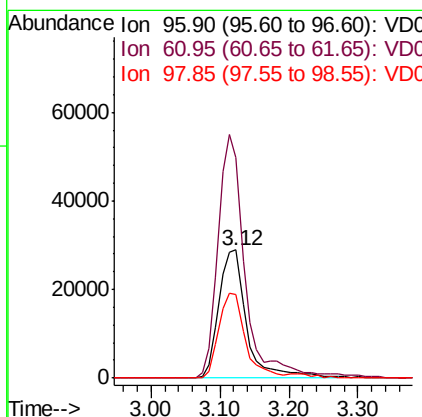
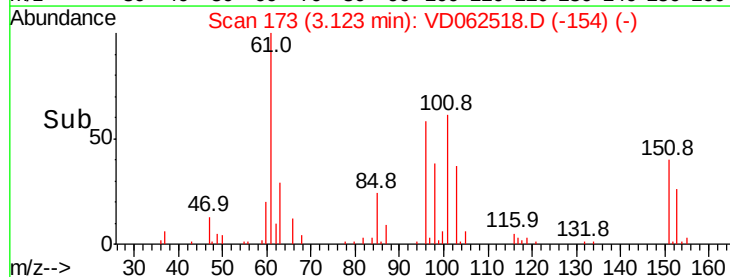
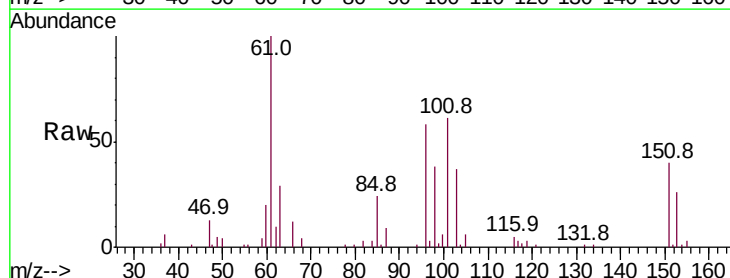
Tot Ion: 59 Resp: 27817
 Ion Ratio Lower Upper
 59 100
 57 7.1 6.9 10.3

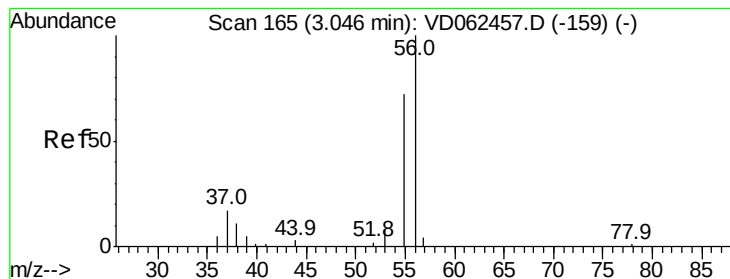


#12

1,1-Dichloroethene
 Concen: 19.041 ug/l
 RT: 3.12 min Scan# 173
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion: 96 Resp: 81166
 Ion Ratio Lower Upper
 96 100
 61 172.3 129.8 194.8
 98 65.6 51.2 76.8





#13

Acrolein

Concen: 85.868 ug/l

RT: 3.03 min Scan# 163

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

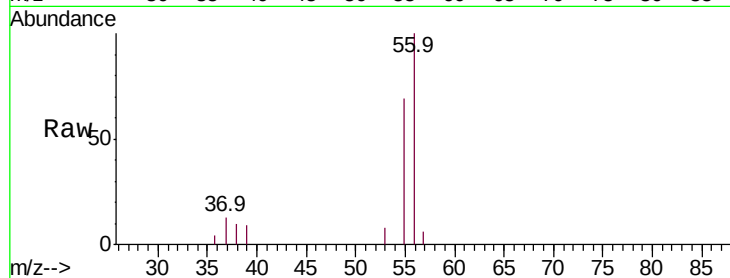
VD0523SBS01

Tot Ion: 56 Resp: 20280

Ion Ratio Lower Upper

56 100

55 69.0 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.03

8000

6000

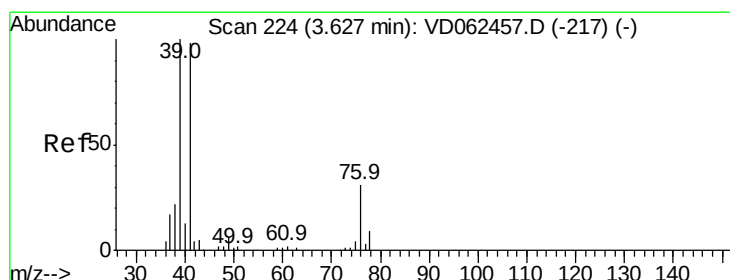
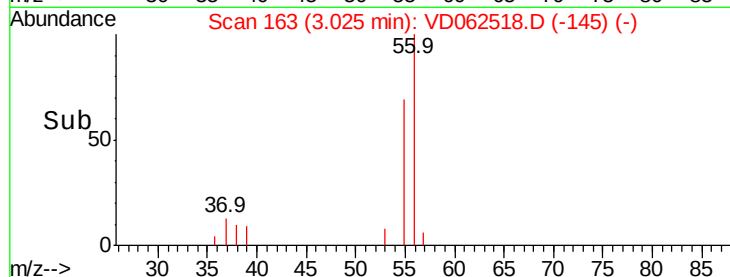
4000

2000

0

Time-->

2.95 3.00 3.05 3.10 3.15



#14

Allyl chloride

Concen: 20.726 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

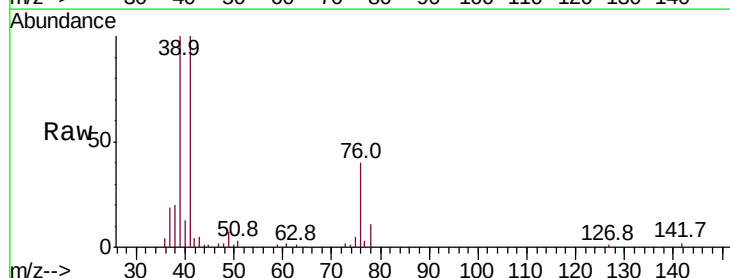
Tgt Ion: 41 Resp: 130266

Ion Ratio Lower Upper

41 100

39 100.0 60.5 90.7#

76 40.3 31.8 47.8



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

3.61

60000

50000

40000

30000

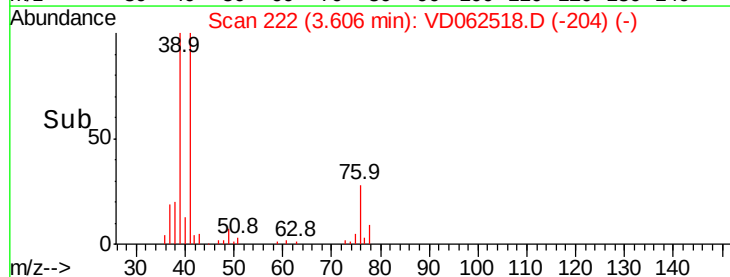
20000

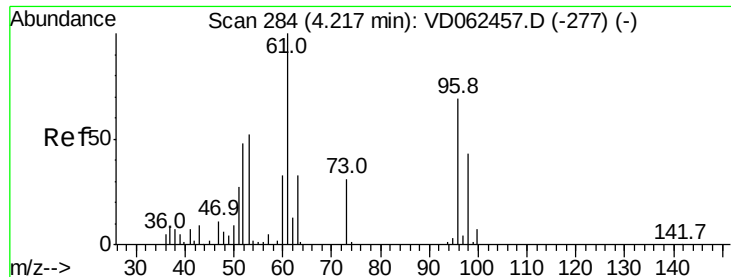
10000

0

Time-->

3.50 3.60 3.70 3.80





#15

Acrylonitrile

Concen: 100.595 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

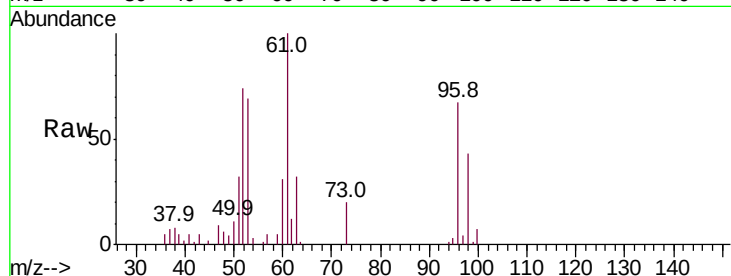
Tot Ion: 53 Resp: 65556

Ion Ratio Lower Upper

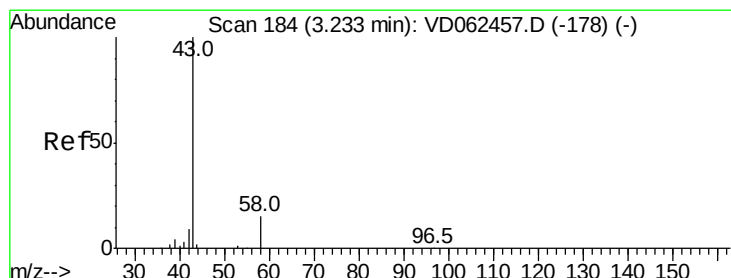
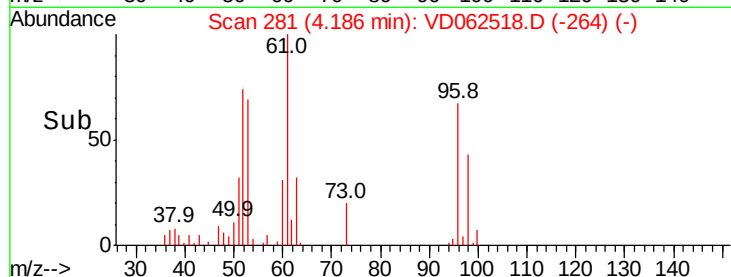
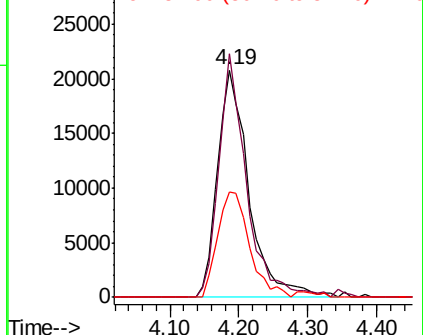
53 100

52 107.2 65.0 97.4#

51 46.3 32.6 48.8



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 102.951 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.02 min

Lab File: VD062518.D

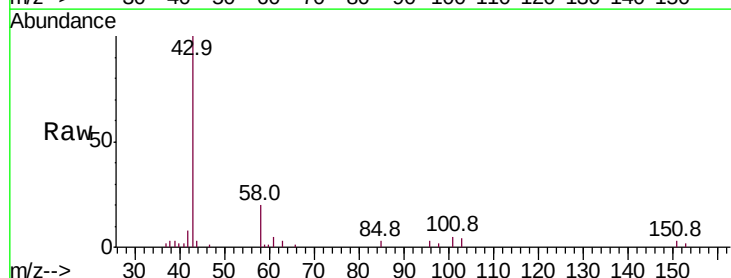
Acq: 23 May 2019 13:27

Tgt Ion: 43 Resp: 113668

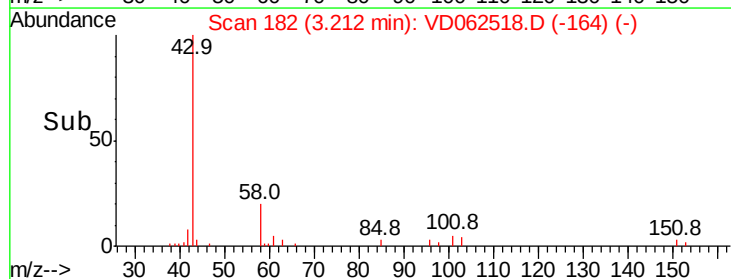
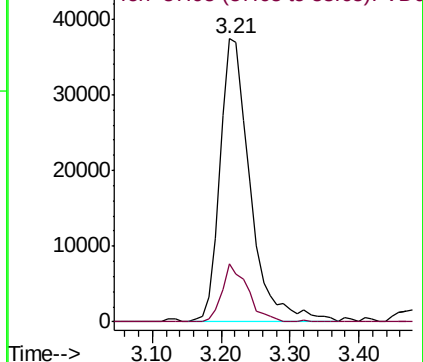
Ion Ratio Lower Upper

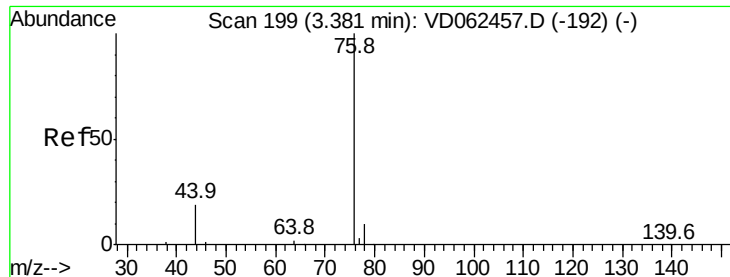
43 100

58 20.4 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 21.038 ug/l

RT: 3.36 min Scan# 197

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

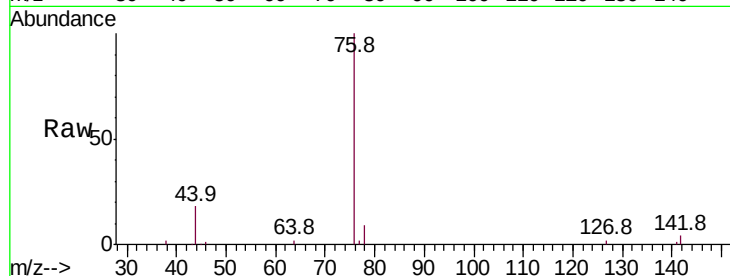
VD0523SBS01

Tot Ion: 76 Resp: 271592

Ion Ratio Lower Upper

76 100

78 8.8 7.2 10.8



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.36

120000

100000

80000

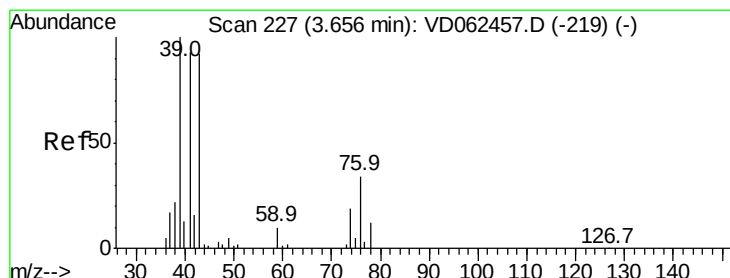
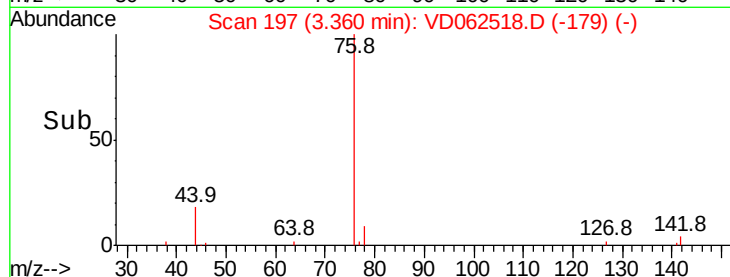
60000

40000

20000

0

Time--> 3.20 3.30 3.40 3.50 3.60



#18

Methyl Acetate

Concen: 19.817 ug/l

RT: 3.64 min Scan# 225

Delta R.T. -0.02 min

Lab File: VD062518.D

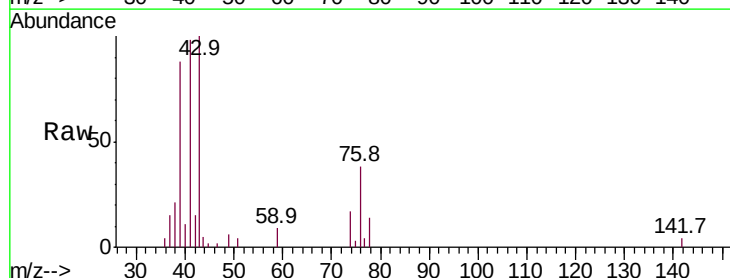
Acq: 23 May 2019 13:27

Tgt Ion: 43 Resp: 37756

Ion Ratio Lower Upper

43 100

74 16.9 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.64

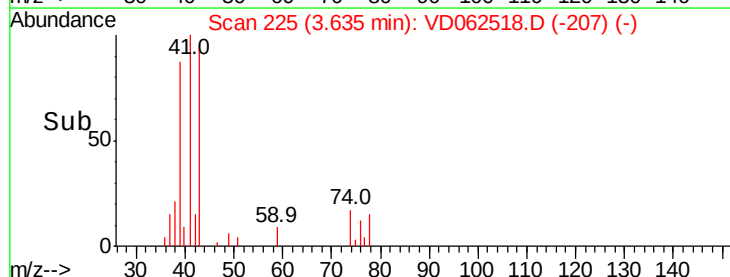
15000

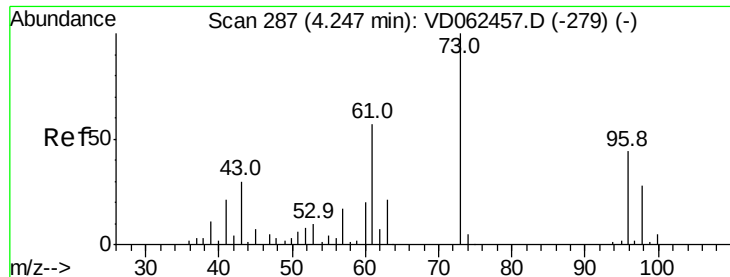
10000

5000

0

Time--> 3.60 3.70

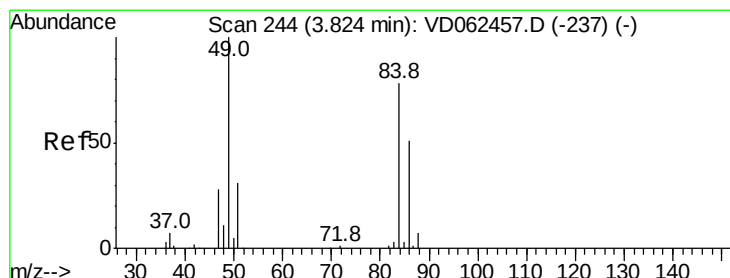
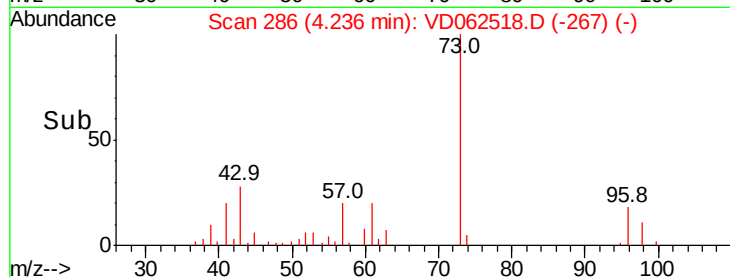
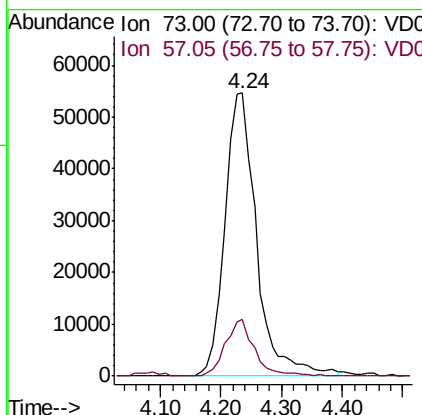
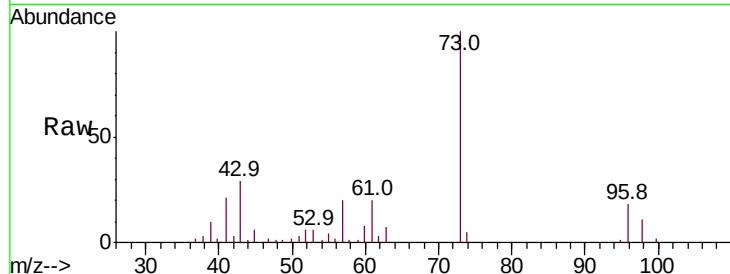




#19
Methvl tert-butyl Ether
Concen: 20.147 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

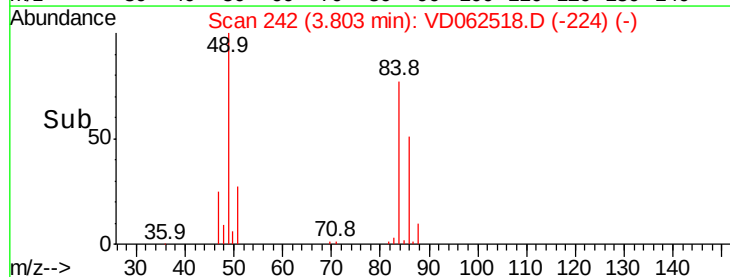
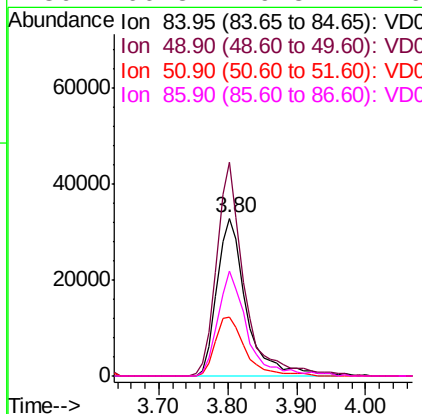
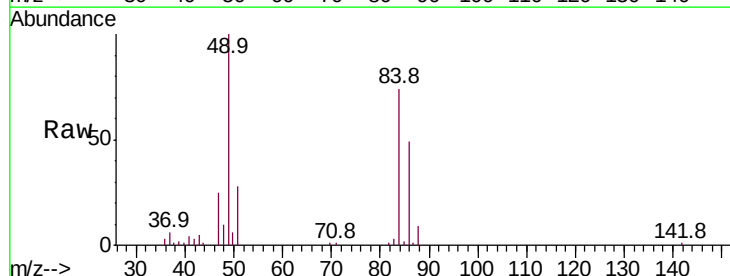
Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

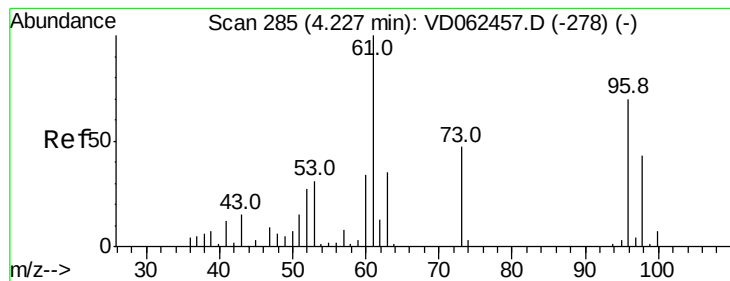
Tot Ion: 73 Resp: 198360
Ion Ratio Lower Upper
73 100
57 21.0 16.3 24.5



#20
Methylene Chloride
Concen: 16.451 ug/l
RT: 3.80 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion: 84 Resp: 97267
Ion Ratio Lower Upper
84 100
49 135.4 94.0 141.0
51 37.3 29.0 43.4
86 66.3 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 20.836 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

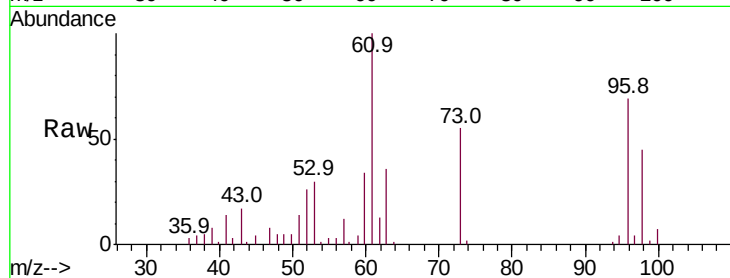
Tot Ion: 96 Resp: 103975

Ion Ratio Lower Upper

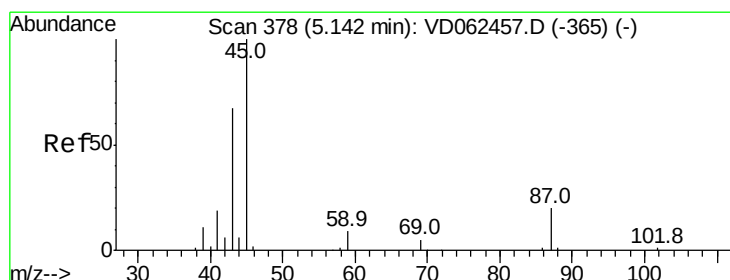
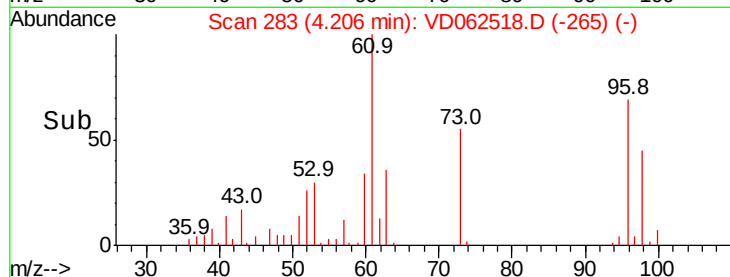
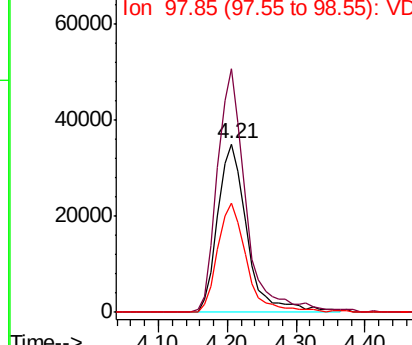
96 100

61 144.8 104.4 156.6

98 65.1 51.8 77.8



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: 19.698 ug/l

RT: 5.11 min Scan# 375

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Tgt Ion: 45 Resp: 263518

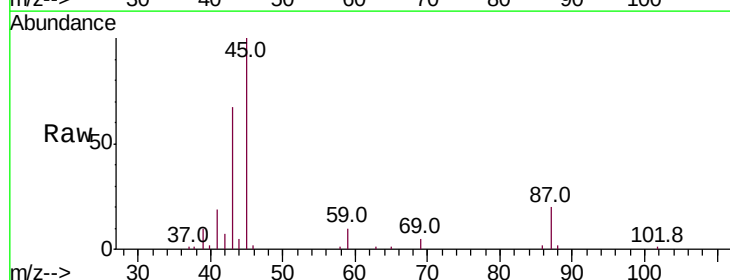
Ion Ratio Lower Upper

45 100

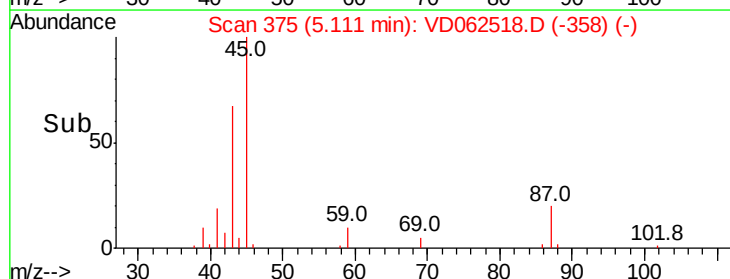
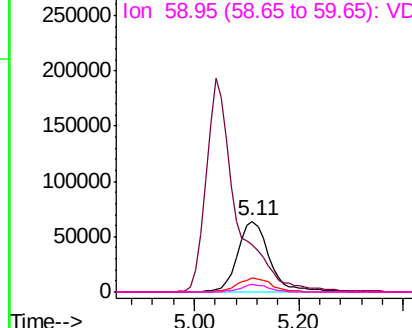
43 66.8 46.2 69.2

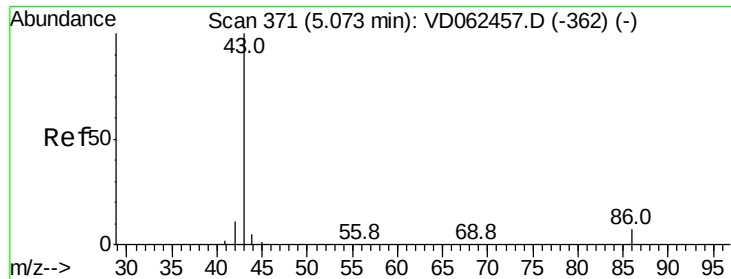
87 20.2 15.9 23.9

59 10.4 7.9 11.9



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: 94.285 ug/l

RT: 5.04 min Scan# 368

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

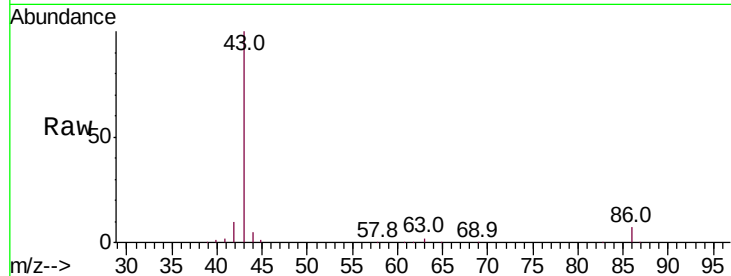
VD0523SBS01

Tot Ion: 43 Resp: 762183

Ion Ratio Lower Upper

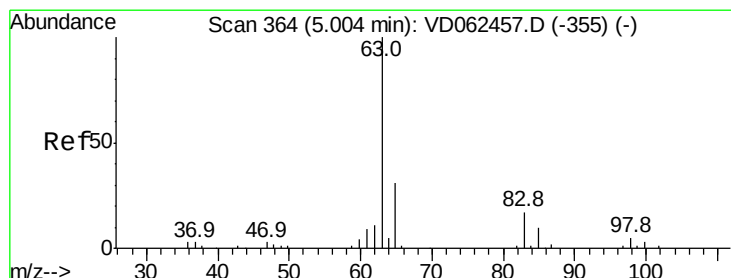
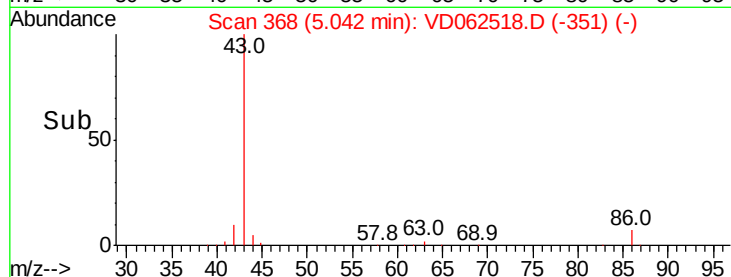
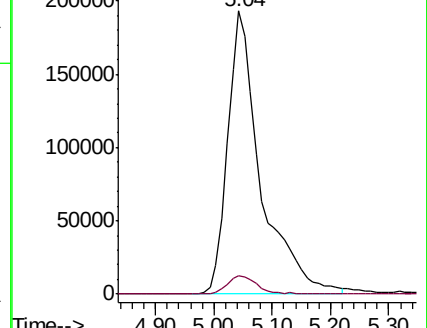
43 100

86 6.7 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VD062518.D (-368) (-)

Ion 86.00 (85.70 to 86.70): VD062518.D (-368) (-)



#24

1,1-Dichloroethane

Concen: 19.577 ug/l

RT: 4.96 min Scan# 360

Delta R.T. -0.04 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

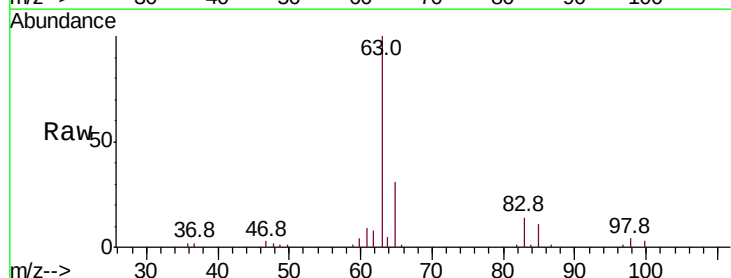
Tgt Ion: 63 Resp: 168675

Ion Ratio Lower Upper

63 100

98 3.9 2.8 8.4

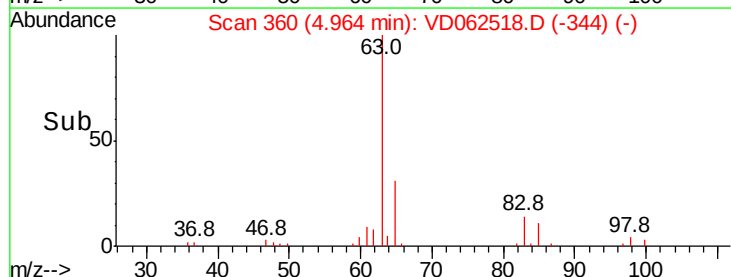
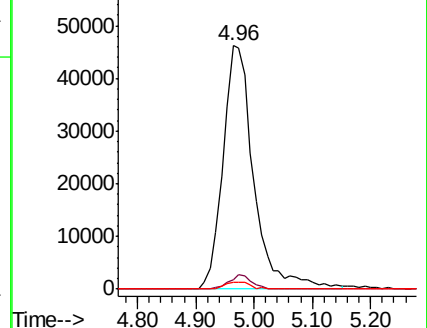
100 3.0 1.8 5.5

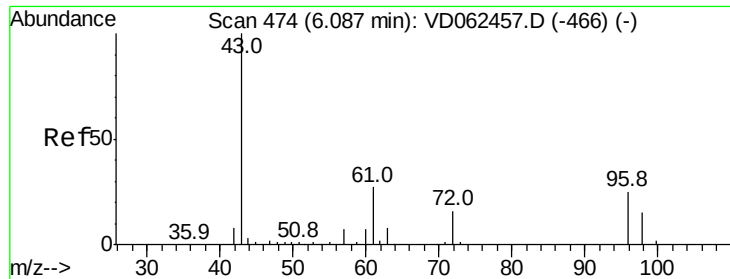


Abundance Ion 62.95 (62.65 to 63.65): VD062518.D (-360) (-)

Ion 97.95 (97.65 to 98.65): VD062518.D (-360) (-)

Ion 99.95 (99.65 to 100.65): VD062518.D (-360) (-)





#25

2-Butanone

Concen: 94.412 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

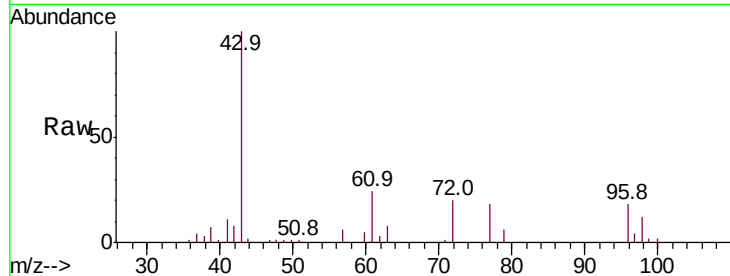
VD0523SBS01

Tot Ion: 43 Resp: 109026

Ion Ratio Lower Upper

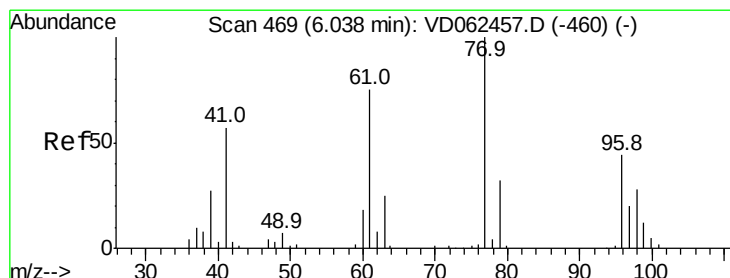
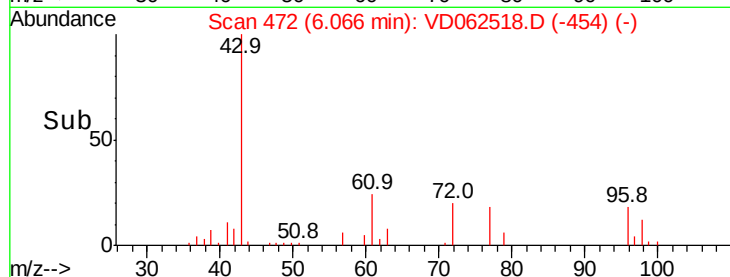
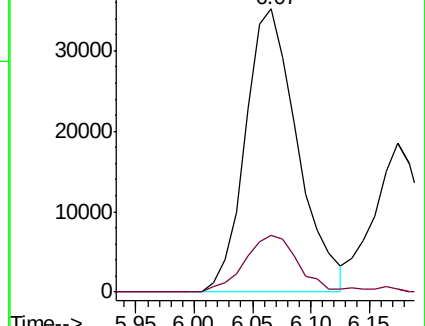
43 100

72 20.3 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.149 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.02 min

Lab File: VD062518.D

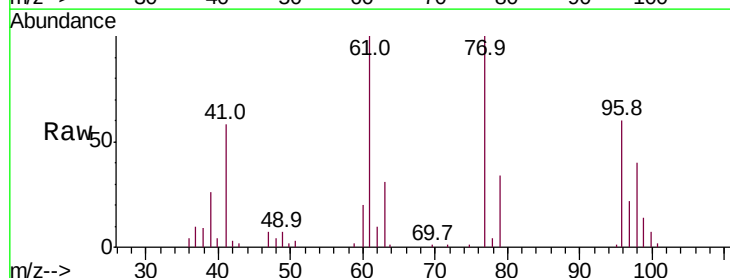
Acq: 23 May 2019 13:27

Tgt Ion: 77 Resp: 177851

Ion Ratio Lower Upper

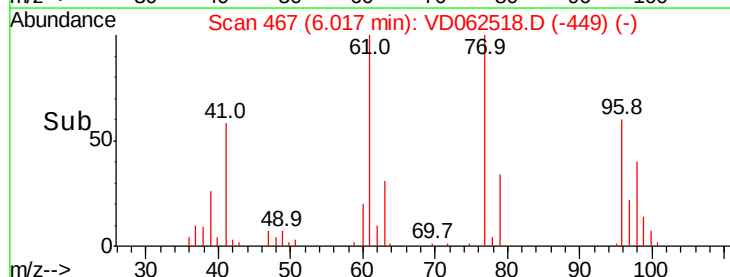
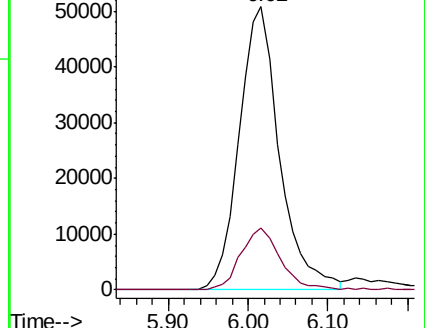
77 100

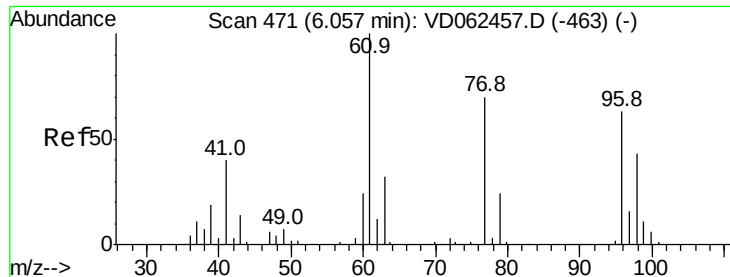
97 22.0 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



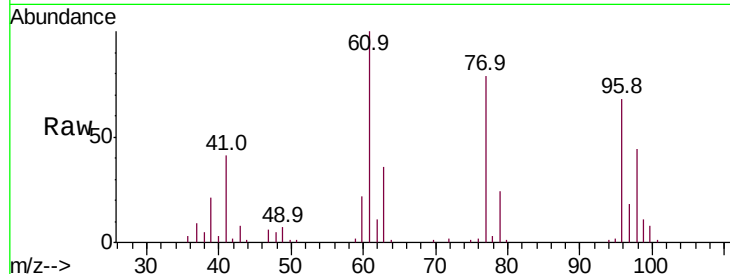


#27

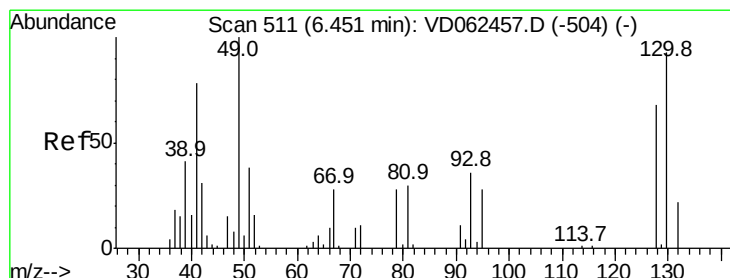
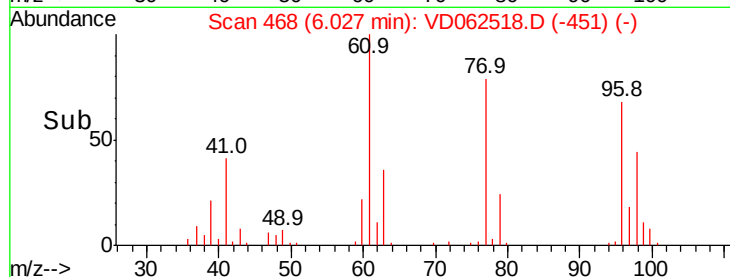
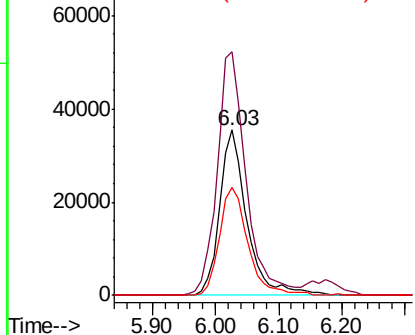
cis-1,2-Dichloroethene
 Concen: 19.896 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. -0.03 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

Tot Ion: 96 Resp: 107058
 Ion Ratio Lower Upper
 96 100
 61 147.6 0.0 279.8
 98 65.2 0.0 136.0



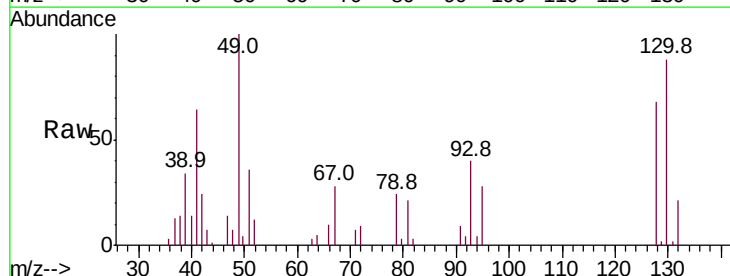
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



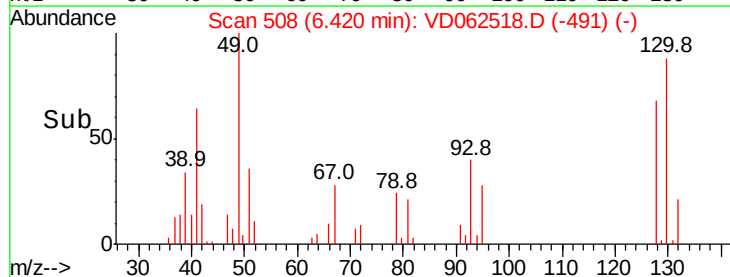
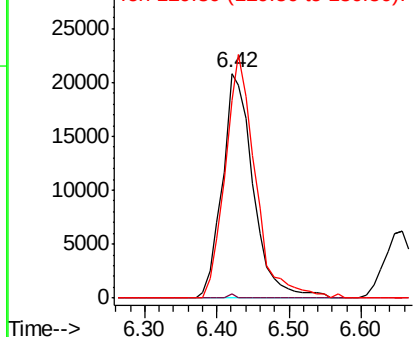
#28

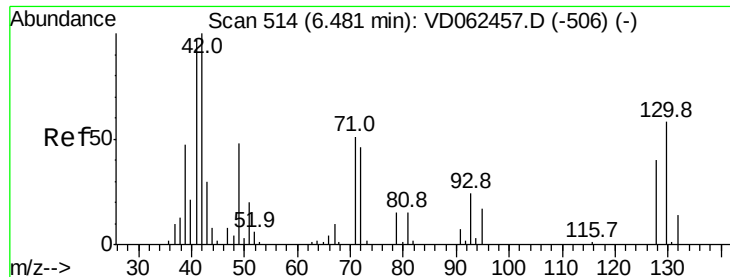
Bromochloromethane
 Concen: 20.031 ug/l
 RT: 6.42 min Scan# 508
 Delta R.T. -0.03 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion: 49 Resp: 61943
 Ion Ratio Lower Upper
 49 100
 129 2.1 0.0 6.6
 130 88.0 86.7 130.1



Abundance Ion 48.90 (48.60 to 49.60): VDC
 Ion 128.80 (128.50 to 129.50): VDC
 Ion 129.80 (129.50 to 130.50): VDC





#29

Tetrahydrofuran

Concen: 97.050 ug/l

RT: 6.45 min Scan# 511

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

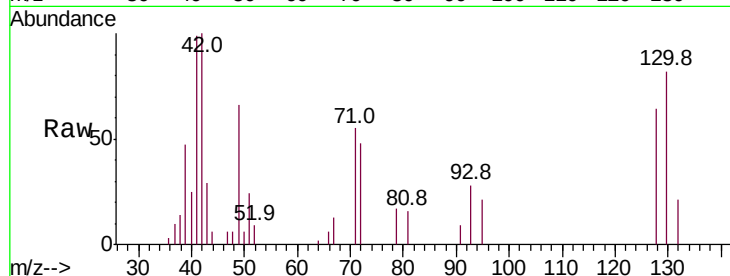
Tot Ion: 42 Resp: 53524

Ion Ratio Lower Upper

42 100

72 44.6 37.8 56.6

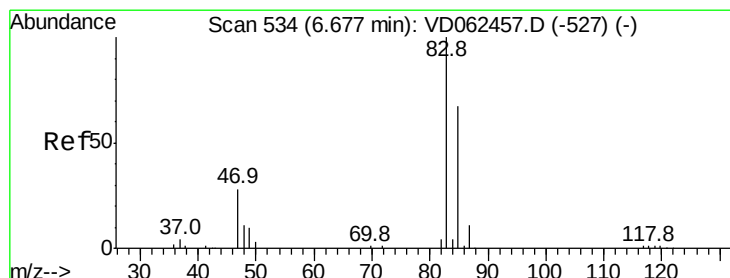
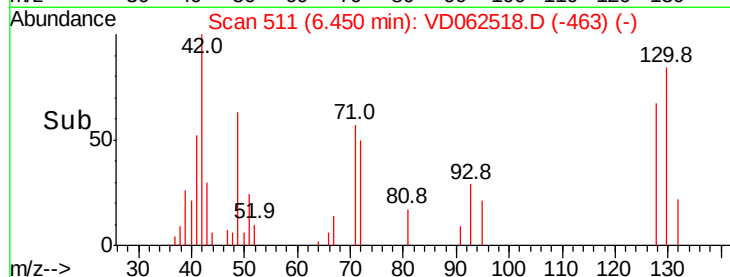
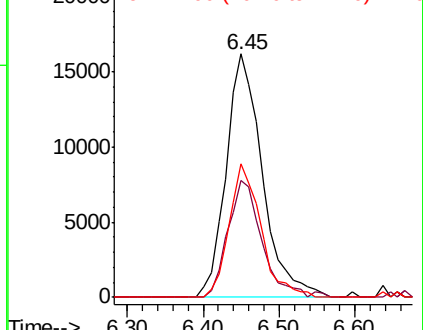
71 48.1 36.7 55.1



Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 19.260 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.02 min

Lab File: VD062518.D

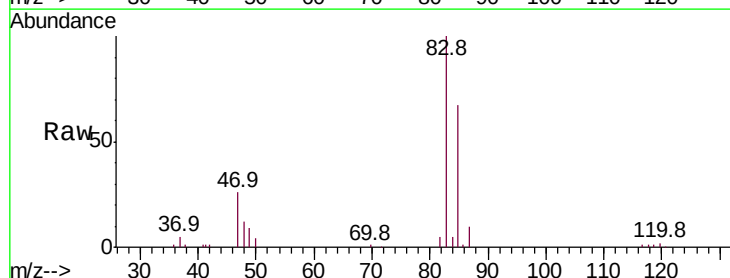
Acq: 23 May 2019 13:27

Tgt Ion: 83 Resp: 211564

Ion Ratio Lower Upper

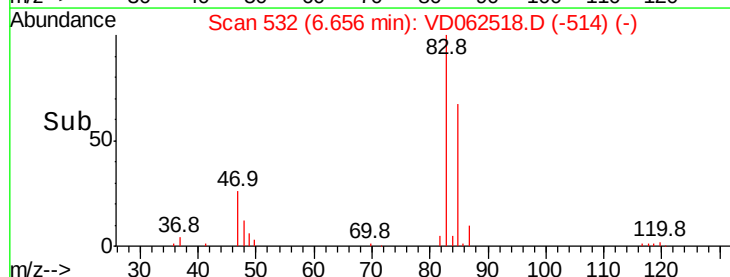
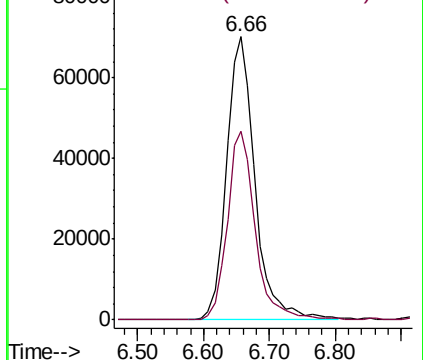
83 100

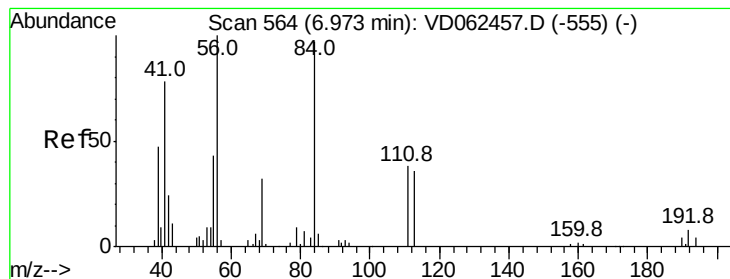
85 66.5 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC





#31

Cyclohexane

Concen: 19.765 ug/l

RT: 6.94 min Scan# 561

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

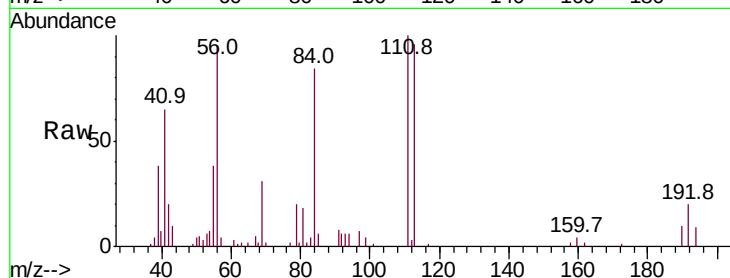
Tot Ion: 56 Resp: 114984

Ion Ratio Lower Upper

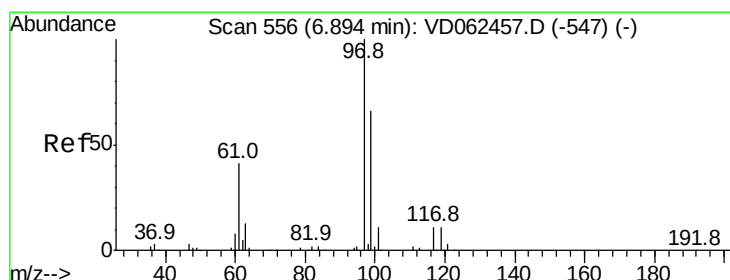
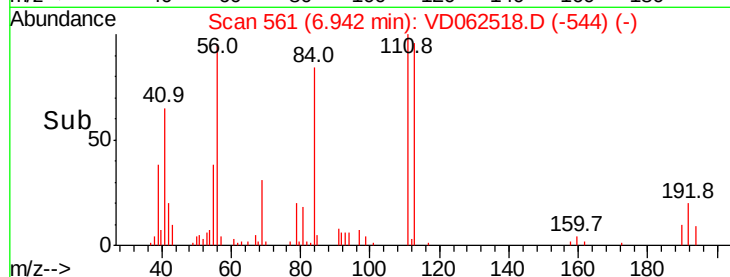
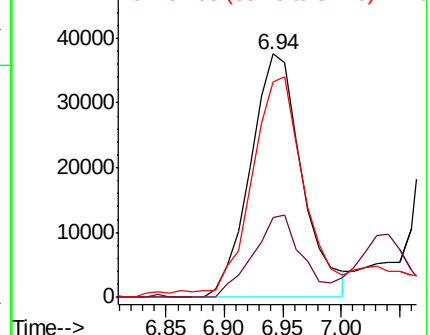
56 100

69 32.8 25.8 38.6

84 88.6 72.2 108.4



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#32

1,1,1-Trichloroethane

Concen: 17.591 ug/l

RT: 6.86 min Scan# 553

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

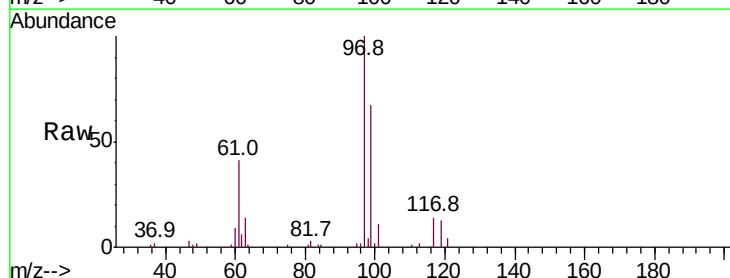
Tgt Ion: 97 Resp: 195081

Ion Ratio Lower Upper

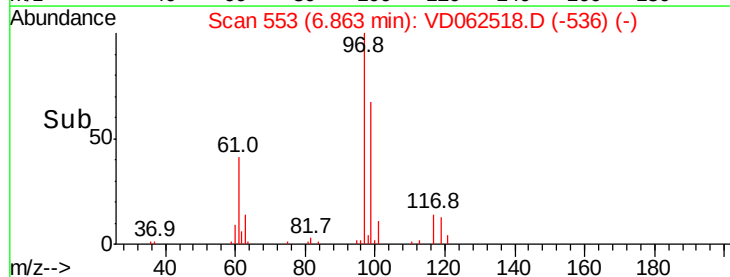
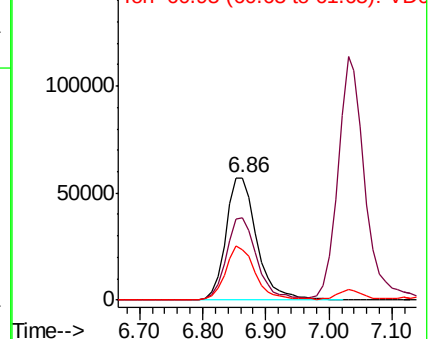
97 100

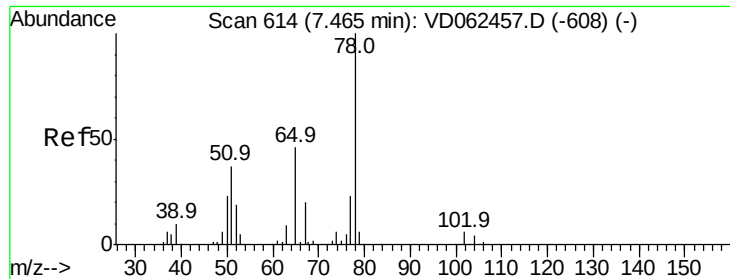
99 67.4 52.2 78.2

61 40.9 32.4 48.6



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC

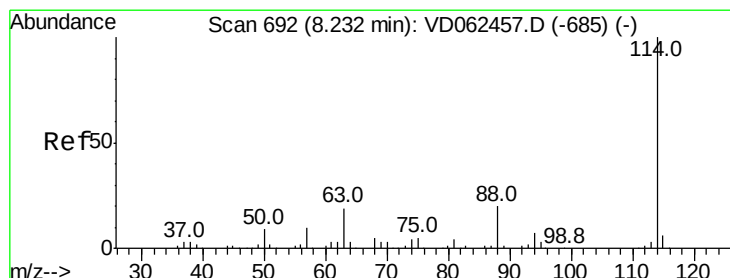
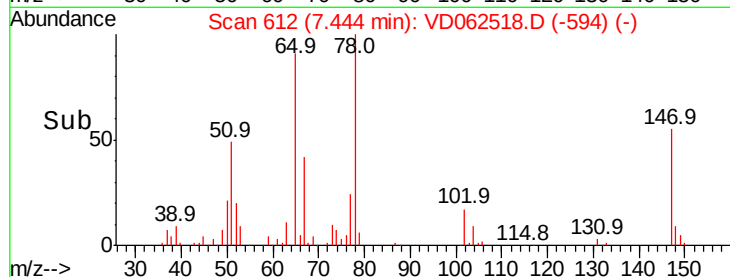
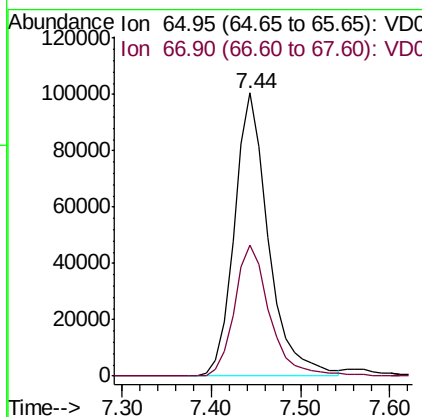
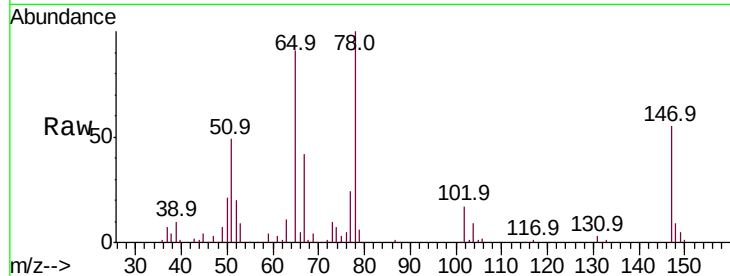




#33
 1,2-Dichloroethane-d4
 Concen: 43.404 ug/l
 RT: 7.44 min Scan# 612
 Delta R.T. -0.02 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

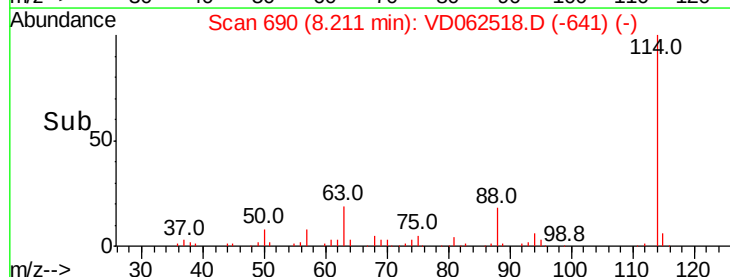
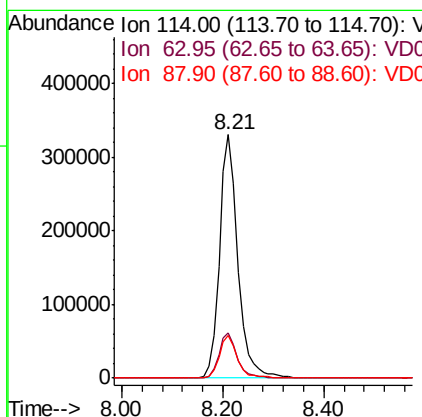
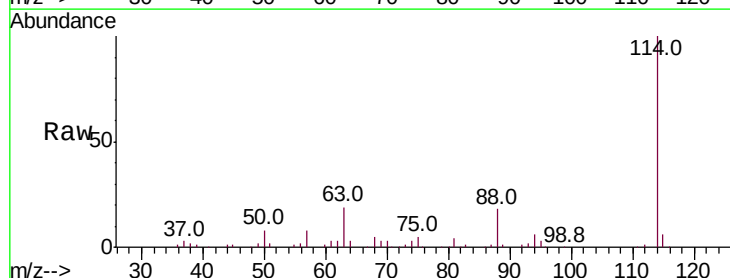
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

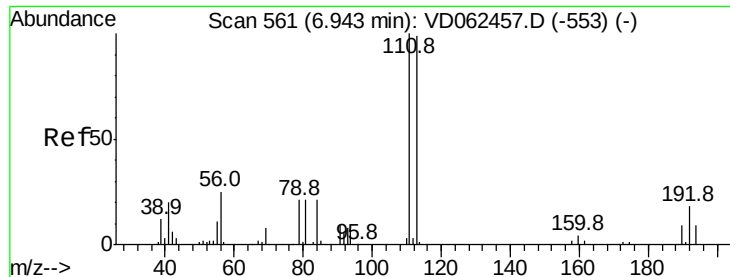
Tot Ion: 65 Resp: 267427
 Ion Ratio Lower Upper
 65 100
 67 46.3 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.02 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion: 114 Resp: 838104
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 32.4
 88 17.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 40.228 ug/l

RT: 6.91 min Scan# 558

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

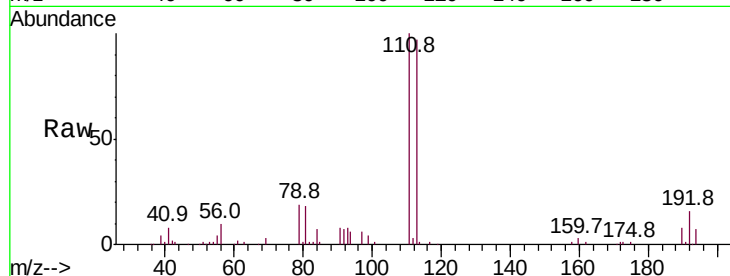
Tot Ion:113 Resp: 304153

Ion Ratio Lower Upper

113 100

111 102.6 78.5 117.7

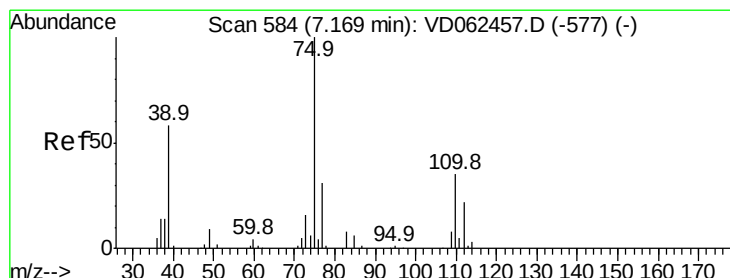
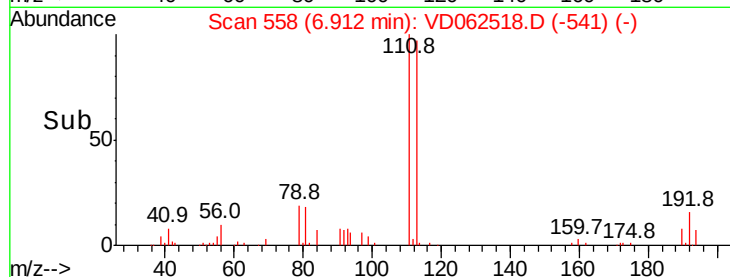
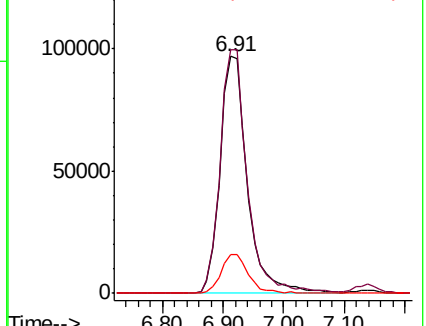
192 16.6 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 18.323 ug/l

RT: 7.14 min Scan# 581

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

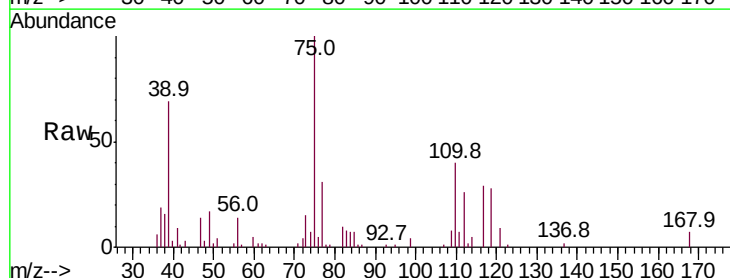
Tgt Ion: 75 Resp: 146821

Ion Ratio Lower Upper

75 100

110 40.1 19.1 57.1

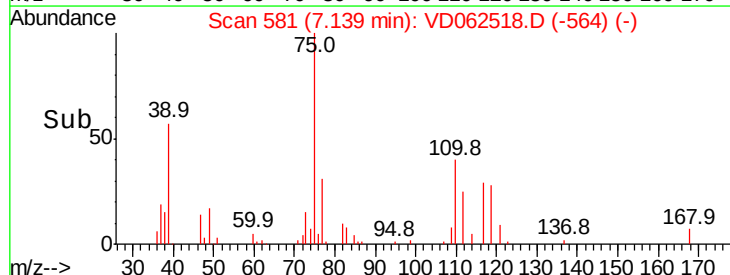
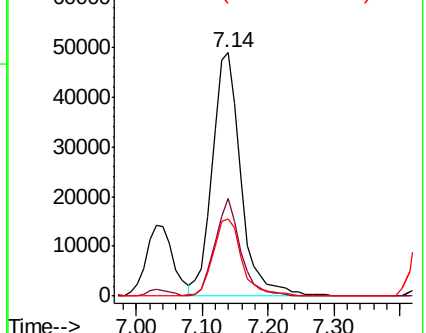
77 31.5 25.6 38.4

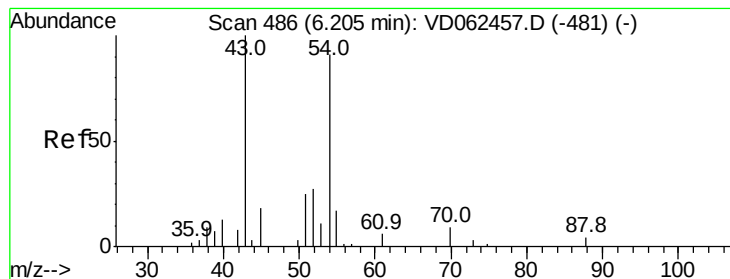


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#37

Ethyl Acetate

Concen: 19.759 ug/l

RT: 6.17 min Scan# 483

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

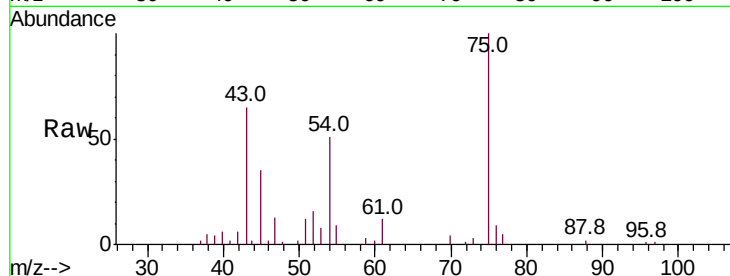
Tot Ion: 43 Resp: 61507

Ion Ratio Lower Upper

43 100

61 18.3 14.7 22.1

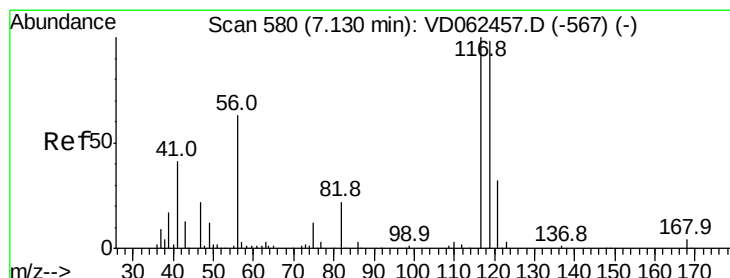
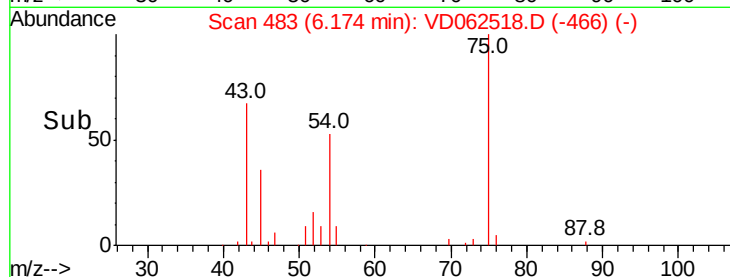
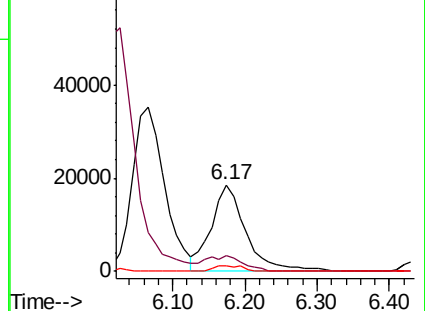
70 6.0 7.8 11.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC



#38

Carbon Tetrachloride

Concen: 18.074 ug/l

RT: 7.10 min Scan# 577

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

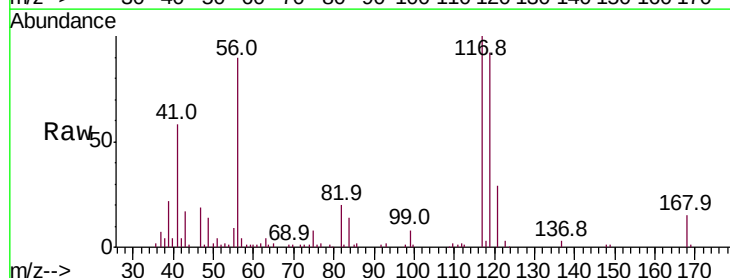
Tgt Ion: 117 Resp: 215238

Ion Ratio Lower Upper

117 100

119 92.3 75.8 113.8

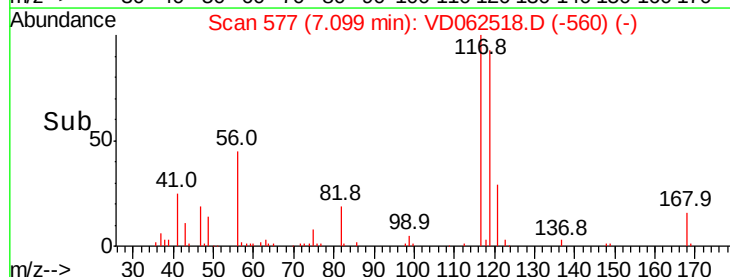
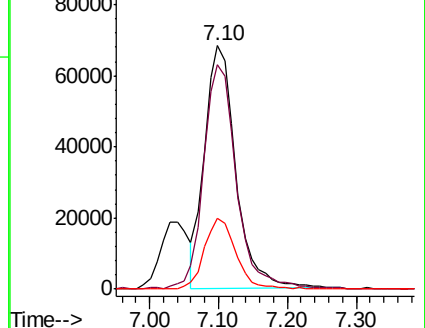
121 28.9 25.9 38.9

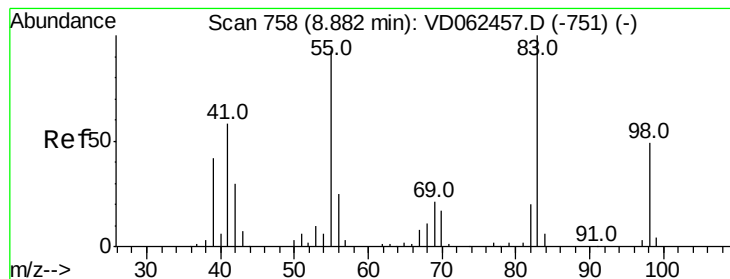


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V





#39

Methylvlcyclohexane

Concen: 20.191 ug/l

RT: 8.85 min Scan# 755

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

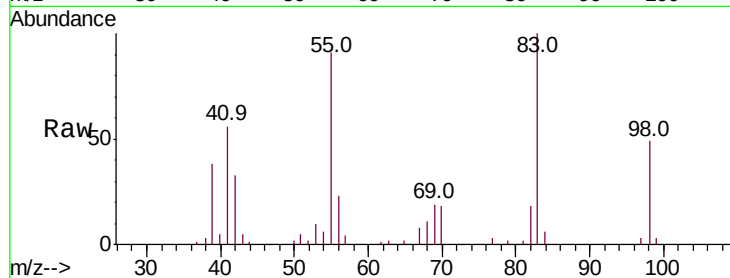
Tot Ion: 83 Resp: 133444

Ion Ratio Lower Upper

83 100

55 91.2 68.2 102.4

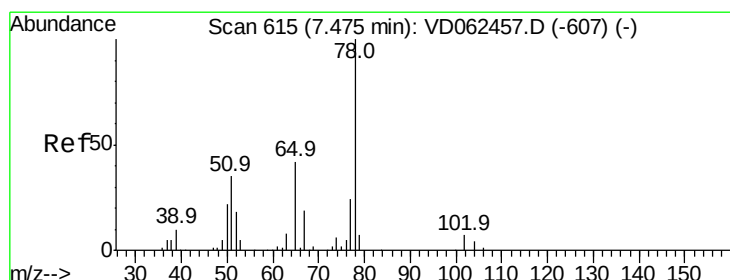
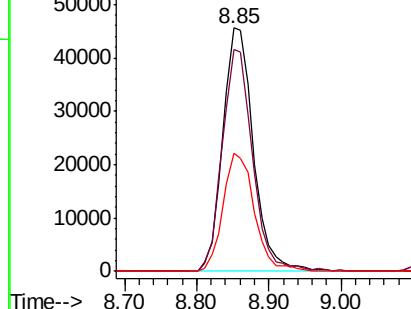
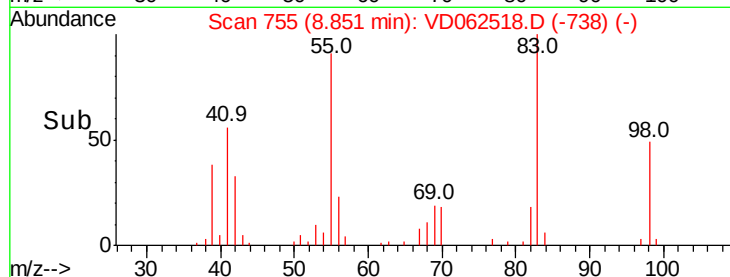
98 48.6 38.2 57.4



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 19.302 ug/l

RT: 7.44 min Scan# 612

Delta R.T. -0.03 min

Lab File: VD062518.D

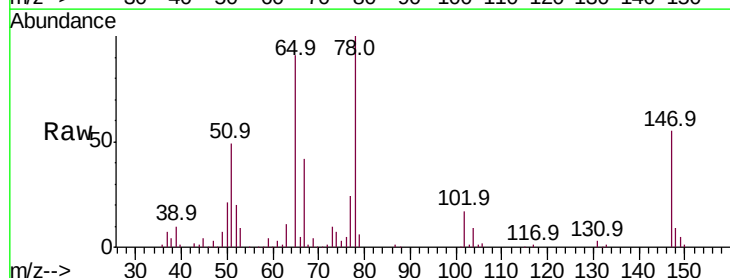
Acq: 23 May 2019 13:27

Tgt Ion: 78 Resp: 303375

Ion Ratio Lower Upper

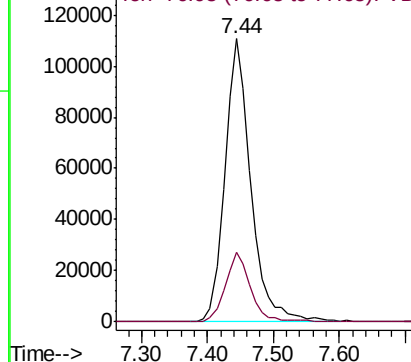
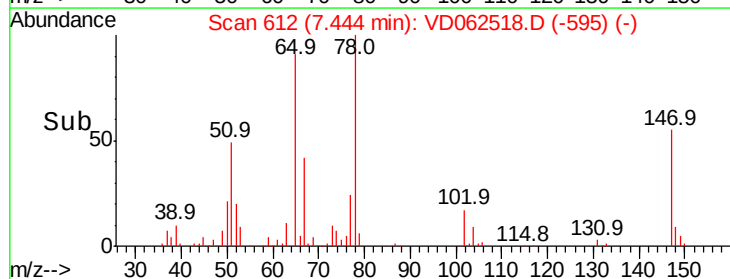
78 100

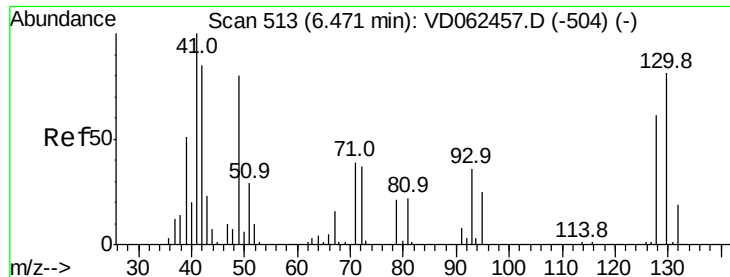
77 24.5 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#41

Methacrylonitrile

Concen: 18.097 ug/l

RT: 6.44 min Scan# 510

Delta R.T. -0.03 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

Tot Ion: 41 Resp: 70749

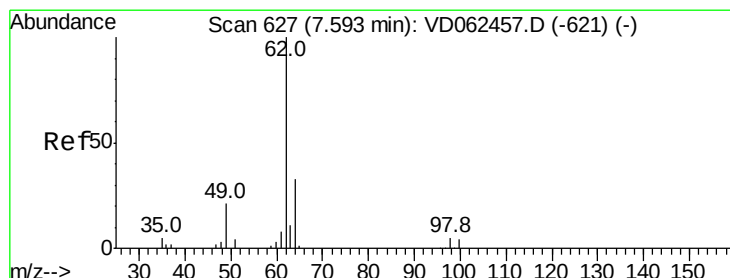
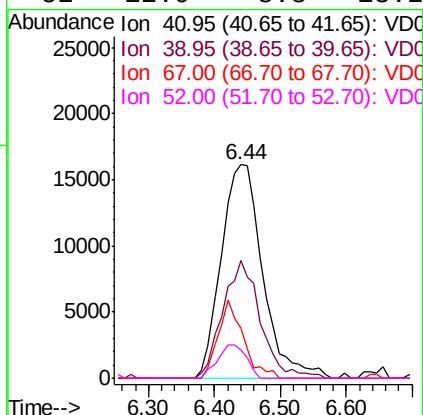
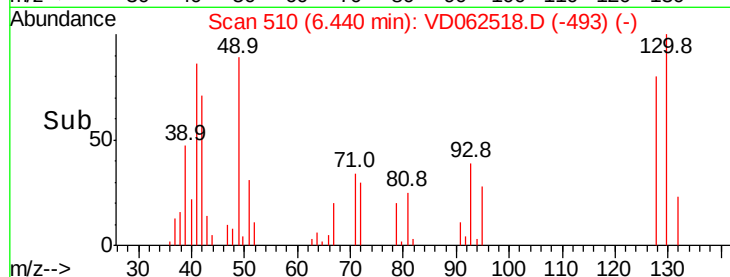
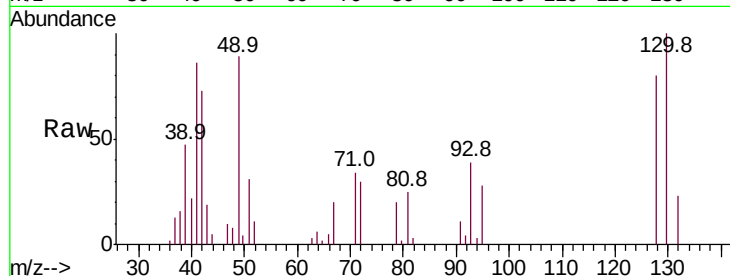
Ion Ratio Lower Upper

41 100

39 54.9 34.1 51.1#

67 23.6 23.8 35.6#

52 12.9 8.8 13.2



#42

1,2-Dichloroethane

Concen: 17.355 ug/l

RT: 7.57 min Scan# 625

Delta R.T. -0.02 min

Lab File: VD062518.D

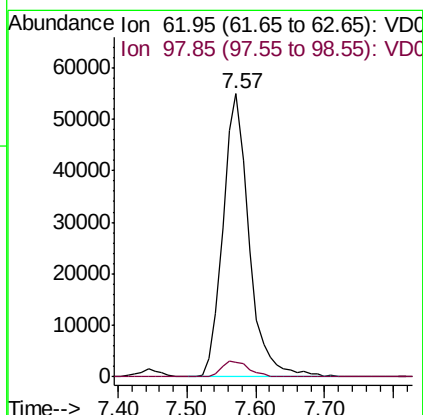
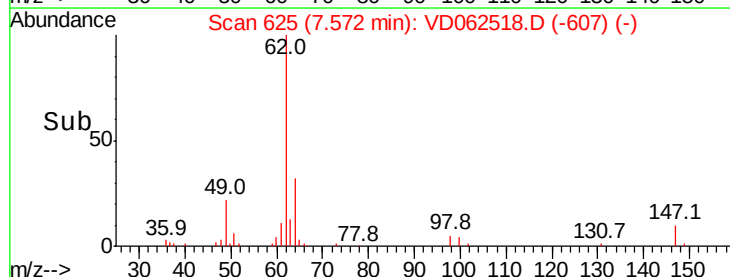
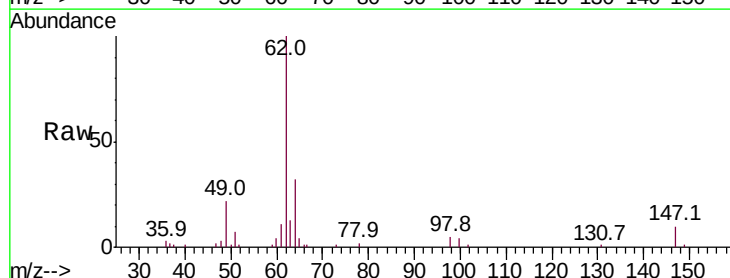
Acq: 23 May 2019 13:27

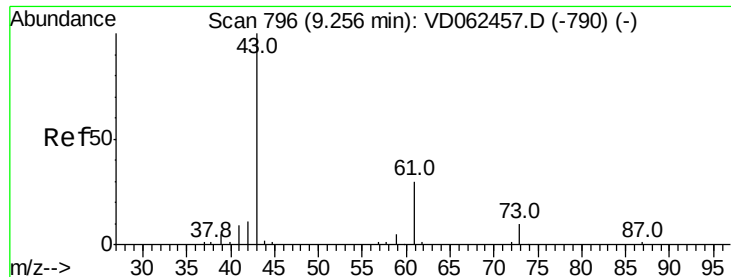
Tgt Ion: 62 Resp: 144441

Ion Ratio Lower Upper

62 100

98 5.2 0.0 17.8





#43

Isopropyl Acetate

Concen: 17.081 ug/l

RT: 9.23 min Scan# 794

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

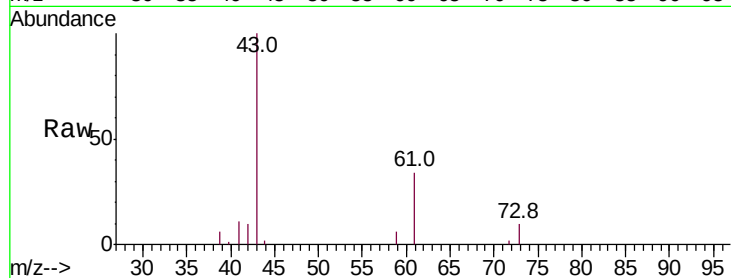
Tot Ion: 43 Resp: 70536

Ion Ratio Lower Upper

43 100

61 33.8 25.1 37.7

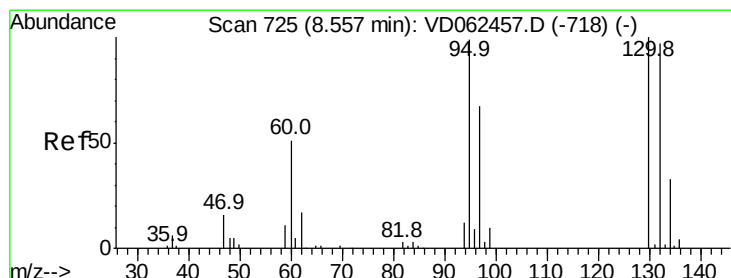
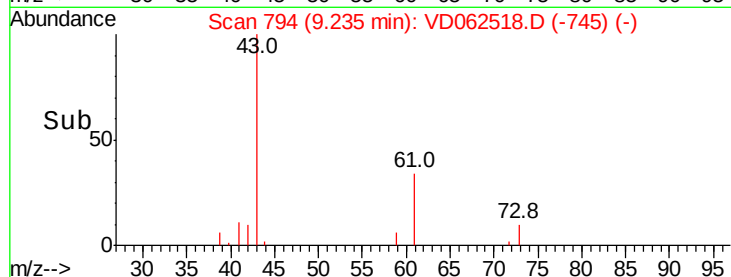
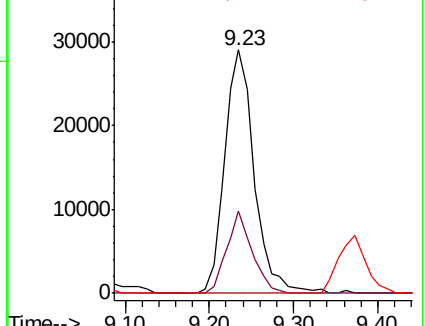
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 19.231 ug/l

RT: 8.53 min Scan# 722

Delta R.T. -0.03 min

Lab File: VD062518.D

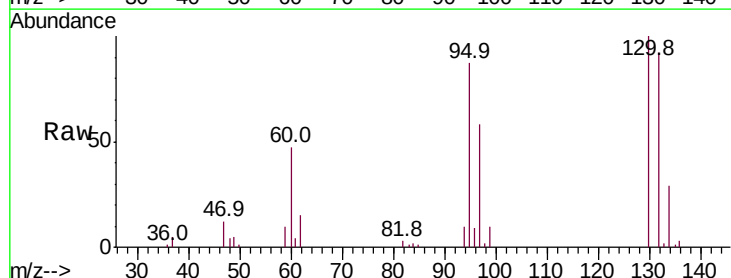
Acq: 23 May 2019 13:27

Tgt Ion:130 Resp: 121019

Ion Ratio Lower Upper

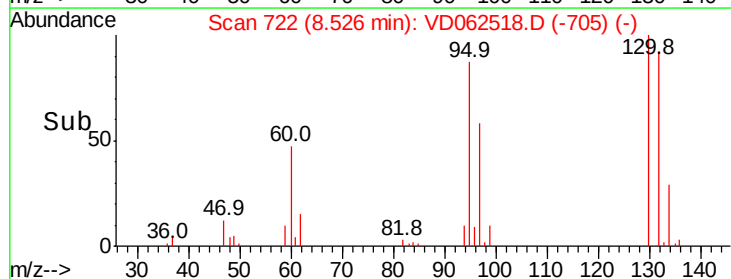
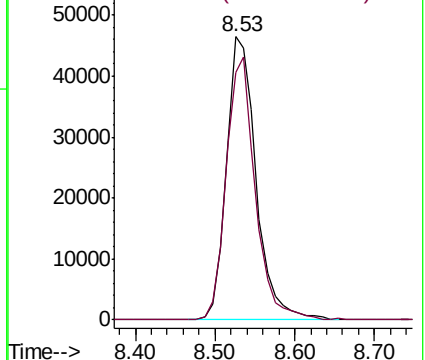
130 100

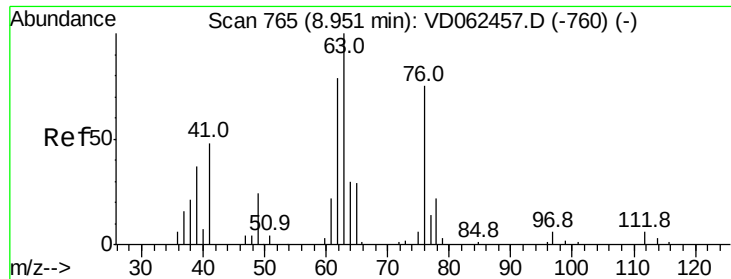
95 87.4 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 19.281 ug/l

RT: 8.93 min Scan# 763

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

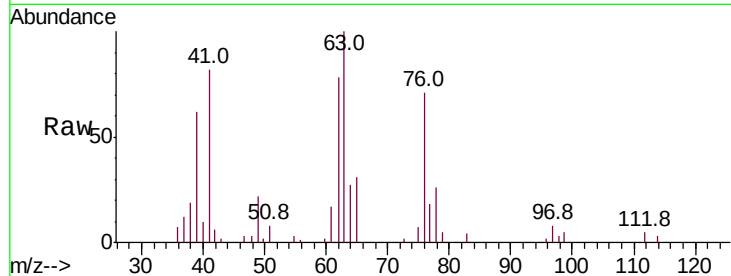
VD0523SBS01

Tot Ion: 63 Resp: 73850

Ion Ratio Lower Upper

63 100

65 31.2 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.93

30000

25000

20000

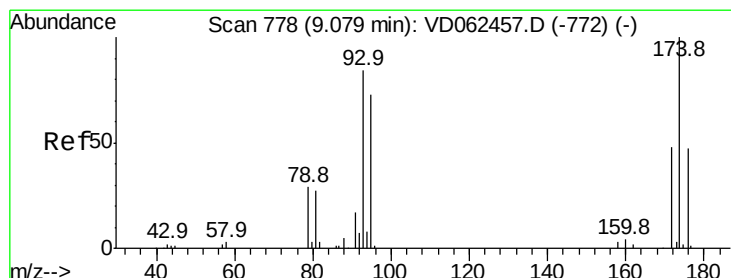
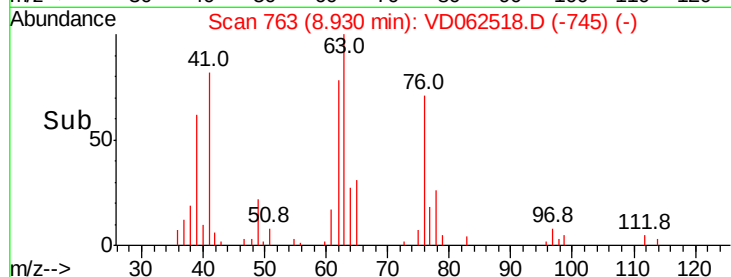
15000

10000

5000

0

Time--> 8.80 8.90 9.00 9.10



#46

Dibromomethane

Concen: 17.329 ug/l

RT: 9.06 min Scan# 776

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

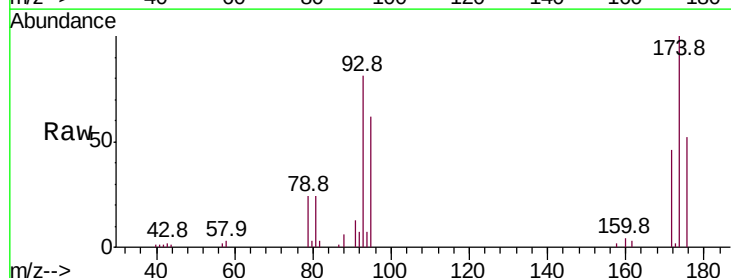
Tgt Ion: 93 Resp: 60167

Ion Ratio Lower Upper

93 100

95 76.6 64.8 97.2

174 123.0 79.3 118.9#



Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

40000

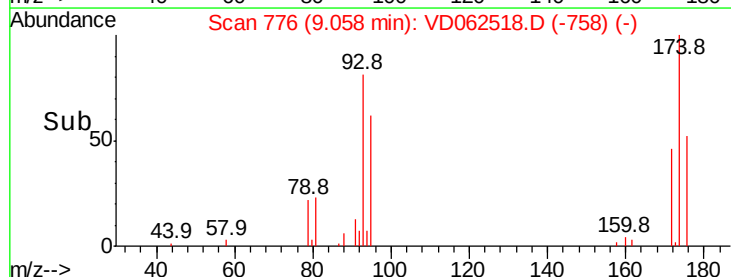
30000

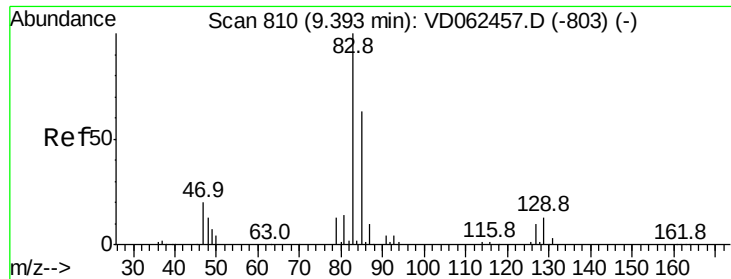
20000

10000

0

Time--> 9.00 9.10 9.20





#47

Bromodichloromethane

Concen: 17.719 ug/l

RT: 9.37 min Scan# 808

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

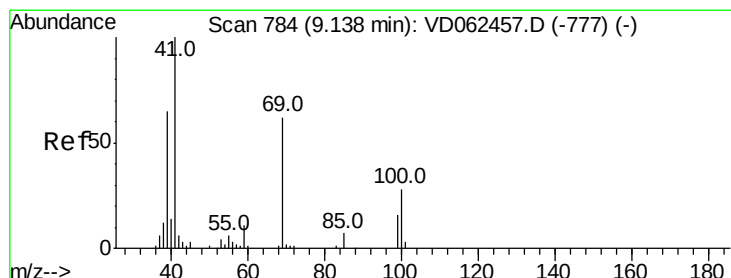
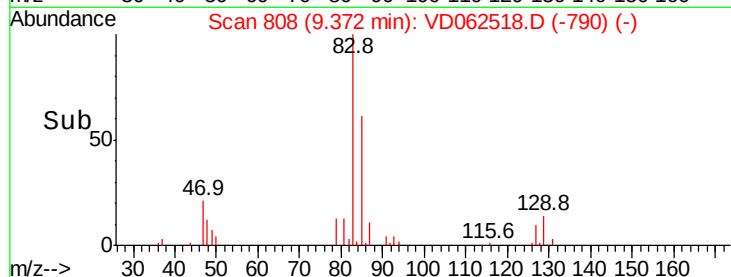
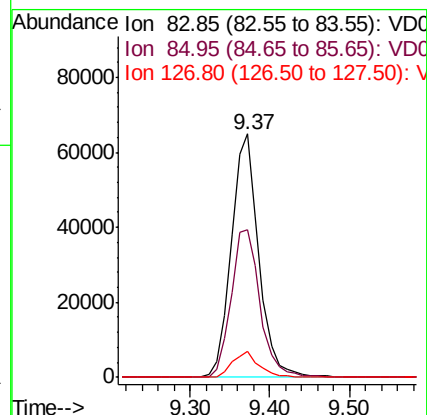
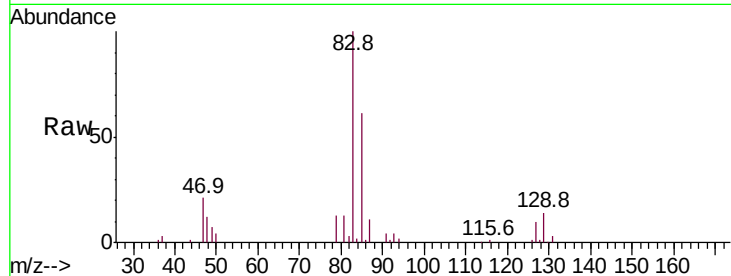
Tot Ion: 83 Resp: 156503

Ion Ratio Lower Upper

83 100

85 60.6 50.9 76.3

127 10.4 8.1 12.1



#48

Methyl methacrylate

Concen: 17.384 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

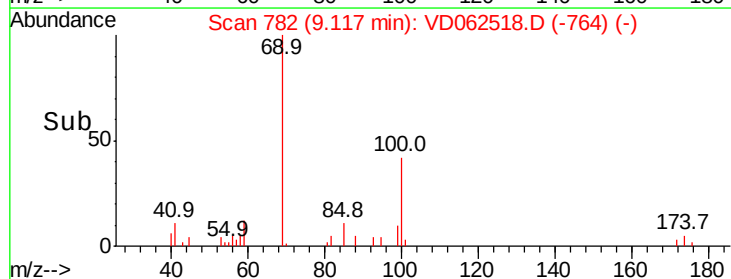
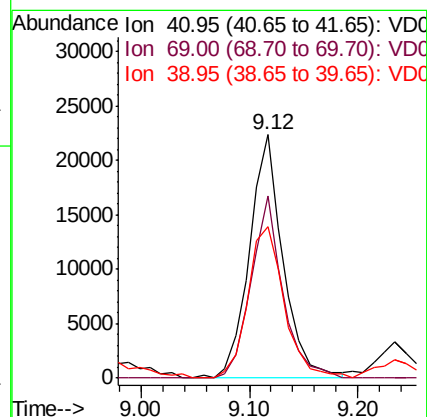
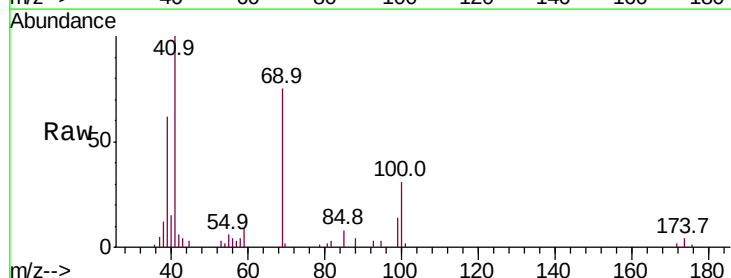
Tgt Ion: 41 Resp: 48310

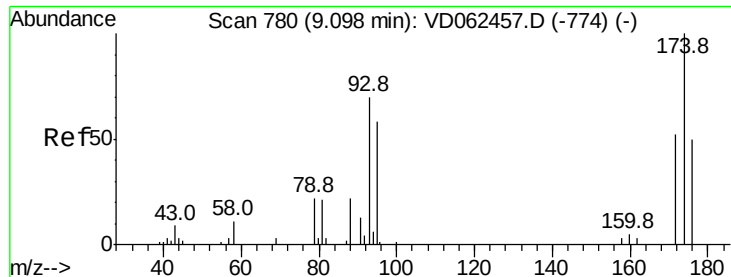
Ion Ratio Lower Upper

41 100

69 74.7 64.2 96.2

39 62.3 46.8 70.2





#49

1,4-Dioxane

Concen: 386.979 ug/l

RT: 9.09 min Scan# 779

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

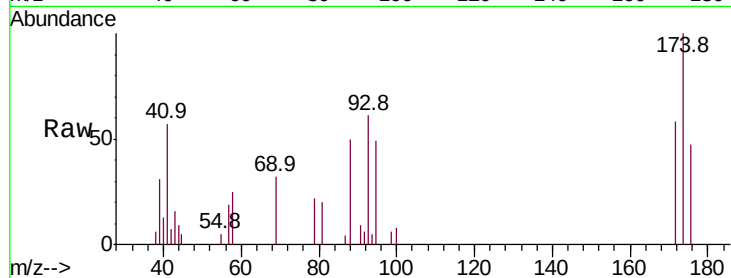
Tot Ion: 88 Resp: 9646

Ion Ratio Lower Upper

88 100

43 32.3 23.4 35.0

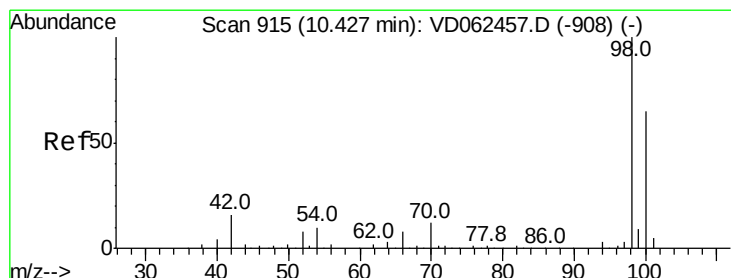
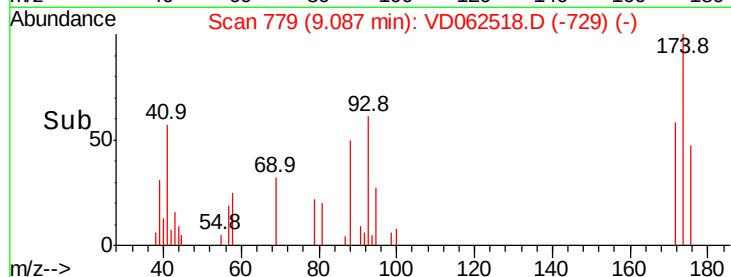
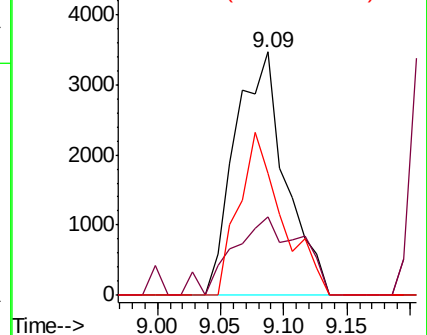
58 49.9 44.0 66.0



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: 41.445 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.02 min

Lab File: VD062518.D

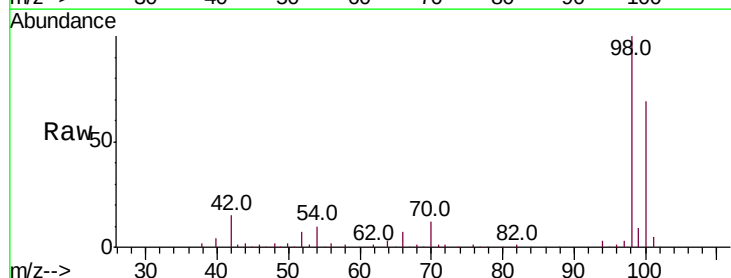
Acq: 23 May 2019 13:27

Tgt Ion: 98 Resp: 685736

Ion Ratio Lower Upper

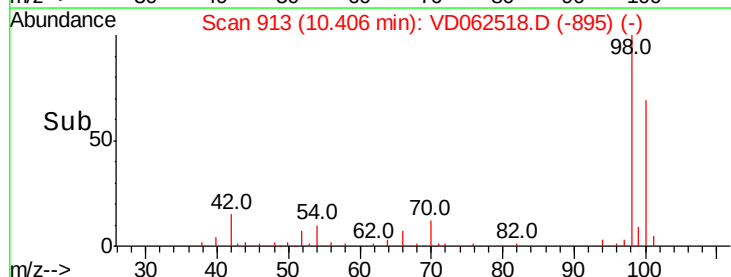
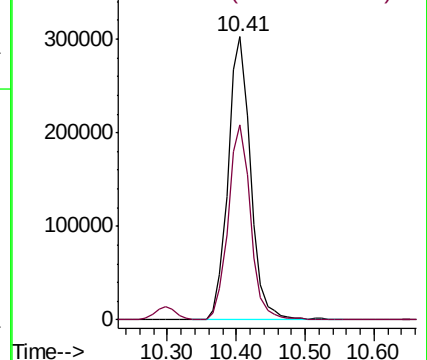
98 100

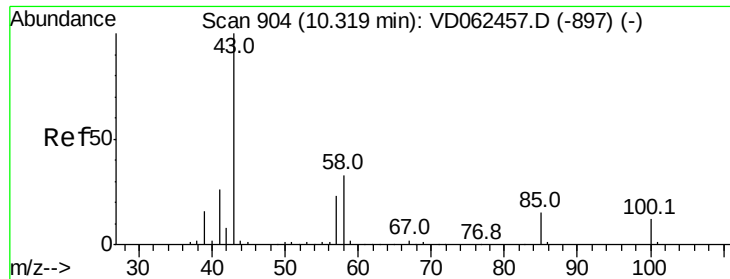
100 68.8 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

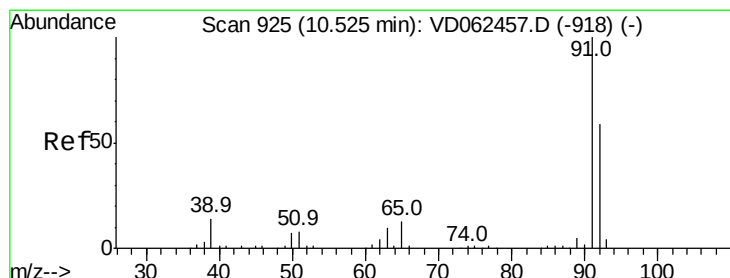
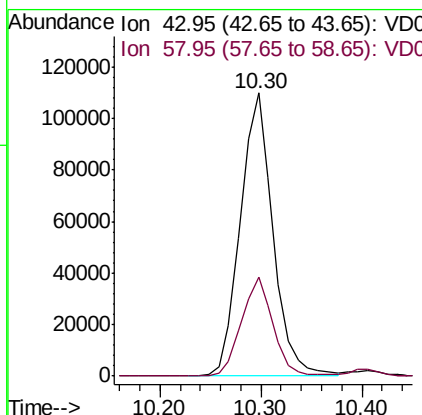
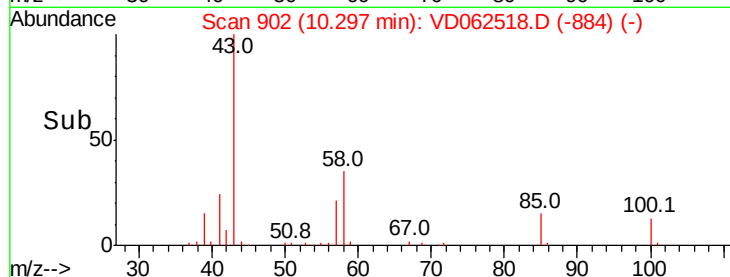
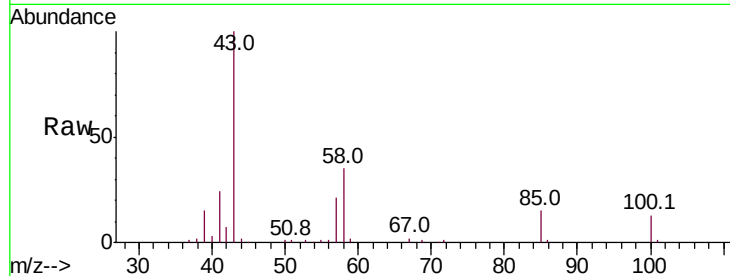




#51
4-Methyl-2-Pentanone
Concen: 91.027 ug/l
RT: 10.30 min Scan# 902
Delta R.T. -0.02 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

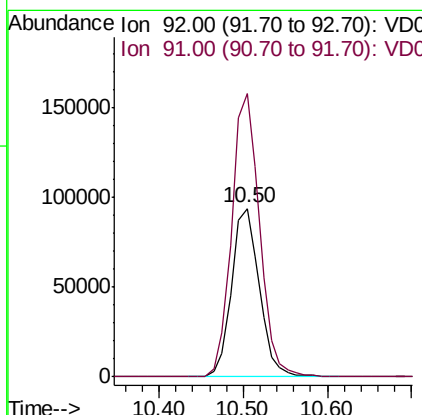
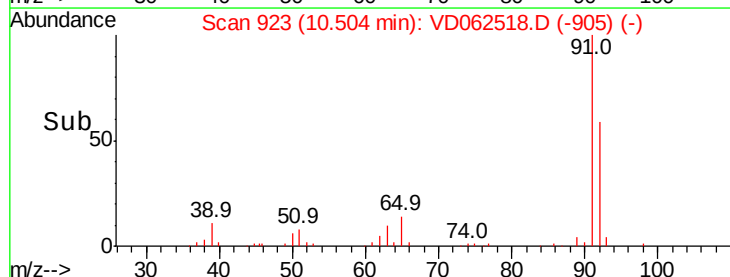
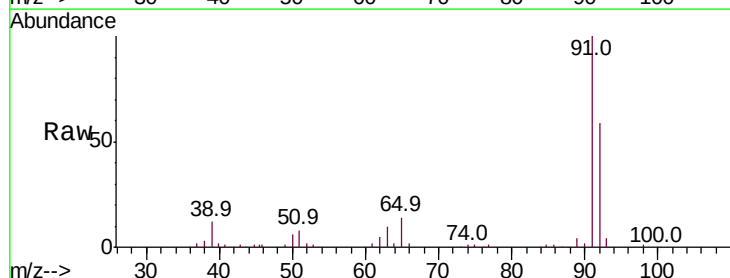
Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

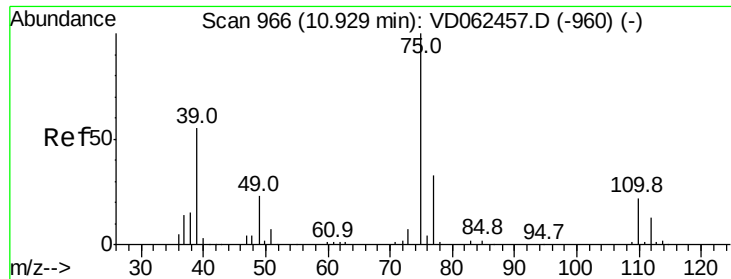
Tot Ion: 43 Resp: 248328
Ion Ratio Lower Upper
43 100
58 35.2 30.4 45.6



#52
Toluene
Concen: 20.088 ug/l
RT: 10.50 min Scan# 923
Delta R.T. -0.02 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion: 92 Resp: 216139
Ion Ratio Lower Upper
92 100
91 168.2 136.6 204.8





#53

t-1,3-Dichloropropene

Concen: 18.635 ug/l

RT: 10.91 min Scan# 964

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

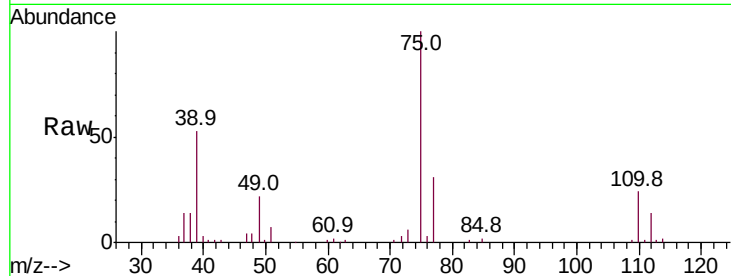
VD0523SBS01

Tot Ion: 75 Resp: 137035

Ion Ratio Lower Upper

75 100

77 31.3 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.91

80000

60000

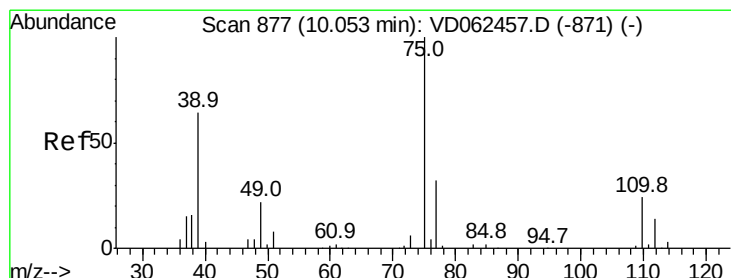
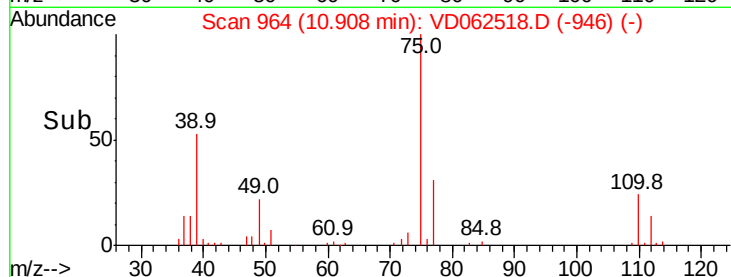
40000

20000

0

Time-->

10.80 10.90 11.00



#54

cis-1,3-Dichloropropene

Concen: 18.627 ug/l

RT: 10.03 min Scan# 875

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

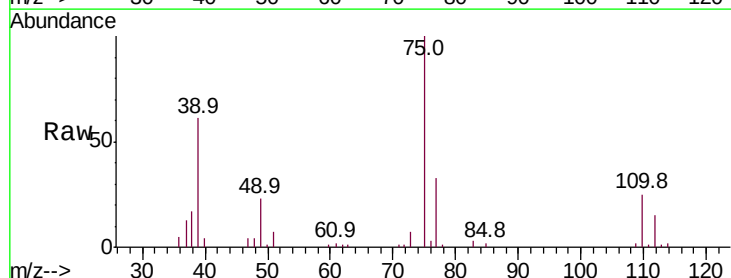
Tgt Ion: 75 Resp: 142927

Ion Ratio Lower Upper

75 100

77 33.2 25.5 38.3

39 60.9 39.4 59.2#



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

10.03

80000

60000

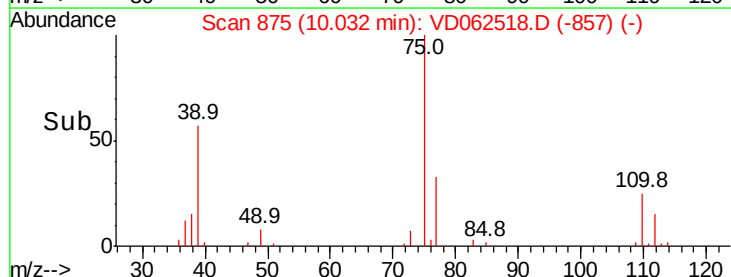
40000

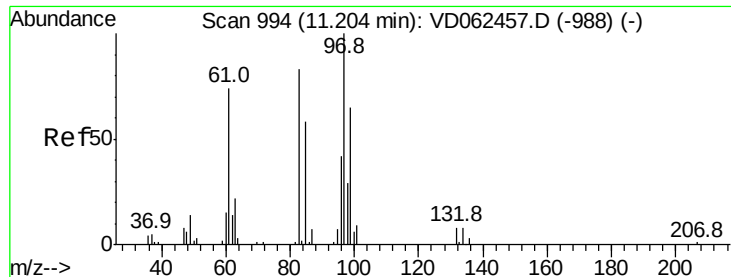
20000

0

Time-->

9.90 10.00 10.10





#55

1,1,2-Trichloroethane

Concen: 19.223 ug/l

RT: 11.18 min Scan# 992

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

Tot Ion: 97 Resp: 70101

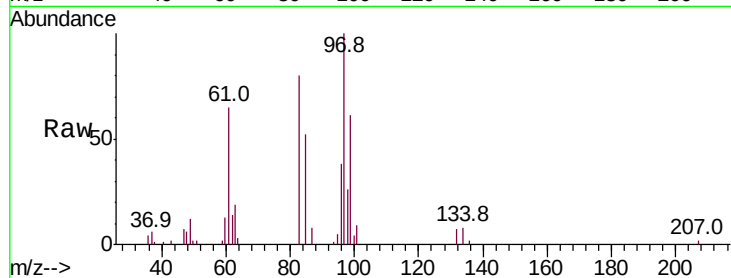
Ion Ratio Lower Upper

97 100

83 79.9 65.7 98.5

85 52.1 45.6 68.4

99 61.2 48.4 72.6

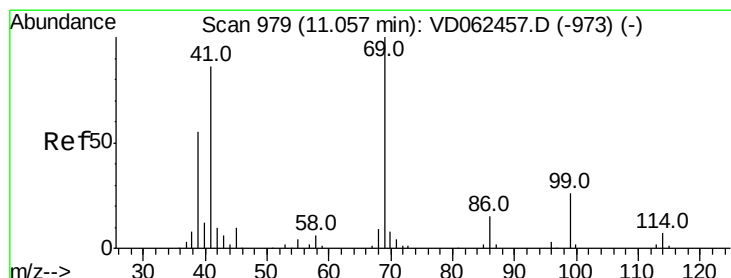
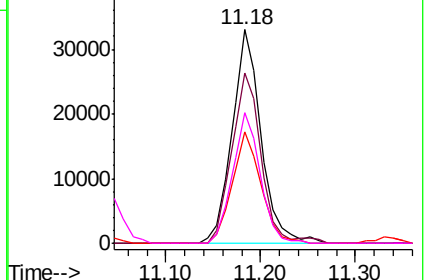
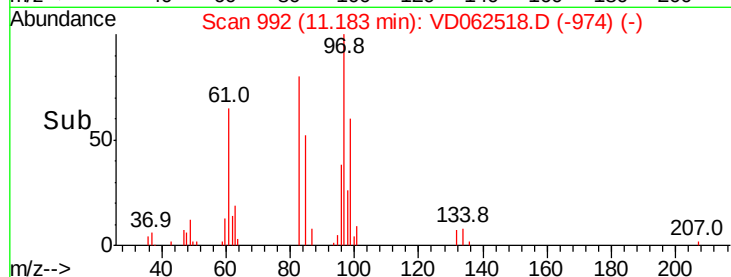


Abundance Ion 96.85 (96.55 to 97.55): VDC

Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

Ion 98.85 (98.55 to 99.55): VDC



#56

Ethyl methacrylate

Concen: 18.177 ug/l

RT: 11.04 min Scan# 977

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

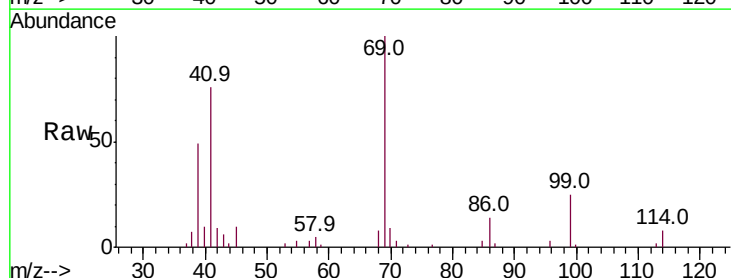
Tgt Ion: 69 Resp: 70860

Ion Ratio Lower Upper

69 100

41 75.9 56.3 84.5

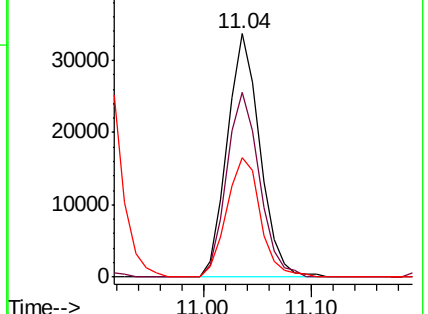
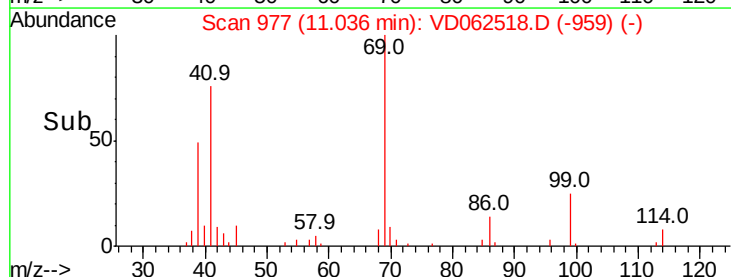
39 49.1 29.4 44.2#

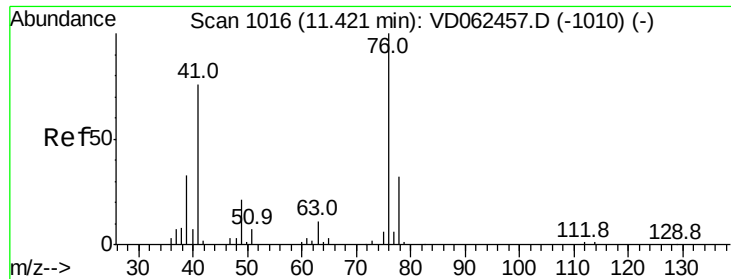


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 17.785 ug/l

RT: 11.40 min Scan# 1014

Delta R.T. -0.02 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

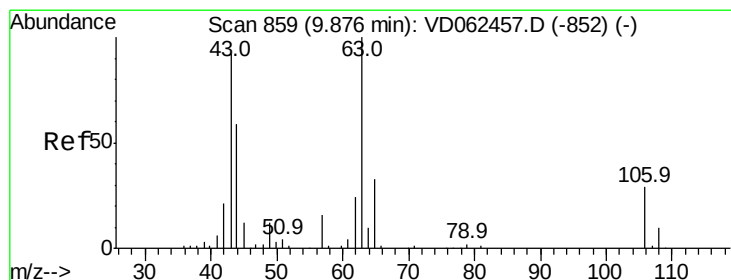
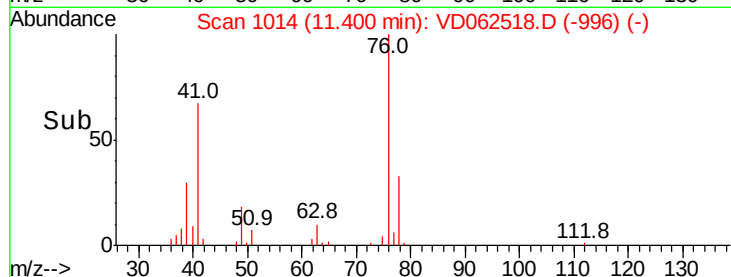
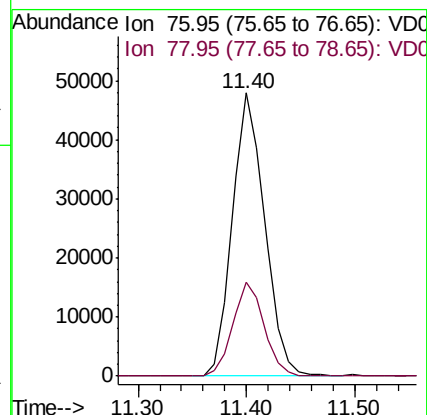
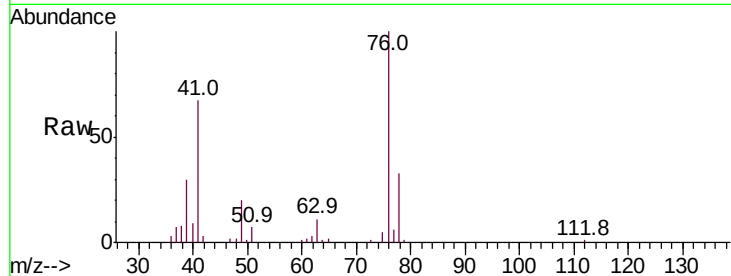
VD0523SBS01

Tot Ion: 76 Resp: 99463

Ion Ratio Lower Upper

76 100

78 33.1 26.2 39.2



#58

2-Chloroethyl Vinyl ether

Concen: 103.450 ug/l

RT: 9.85 min Scan# 857

Delta R.T. -0.02 min

Lab File: VD062518.D

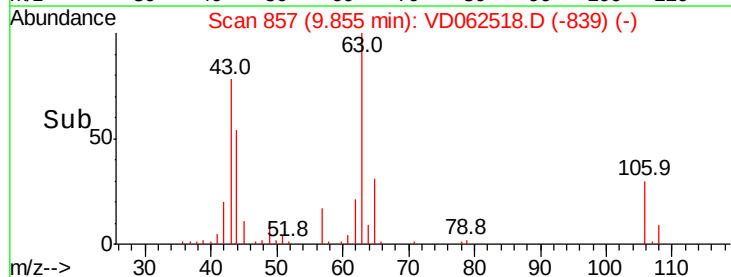
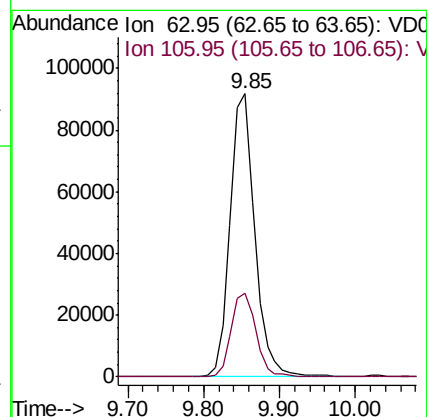
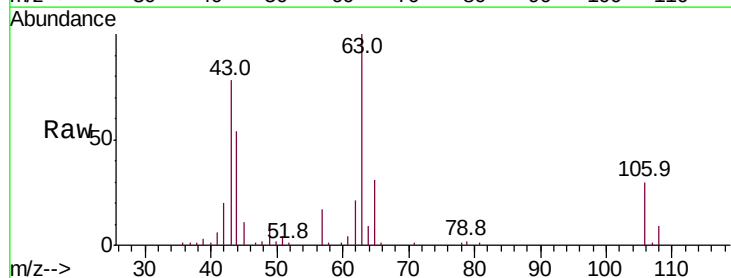
Acq: 23 May 2019 13:27

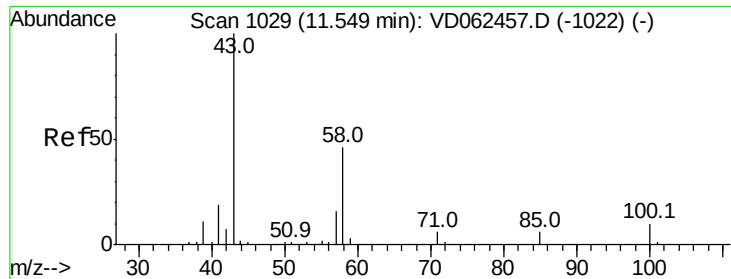
Tgt Ion: 63 Resp: 207088

Ion Ratio Lower Upper

63 100

106 29.5 22.6 34.0

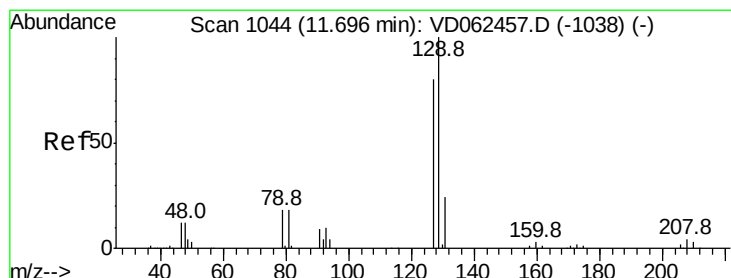
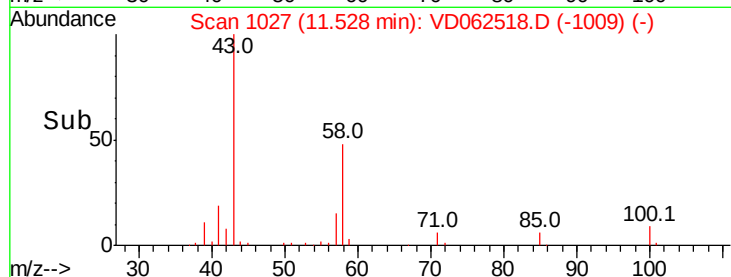
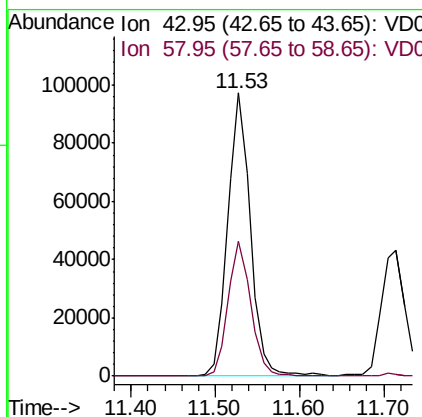
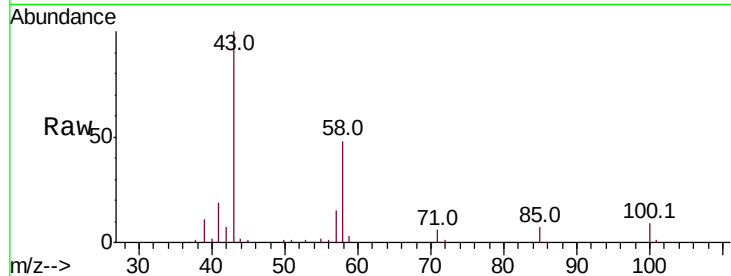




#59
2-Hexanone
Concen: 91.905 ug/l
RT: 11.53 min Scan# 1027
Delta R.T. -0.02 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

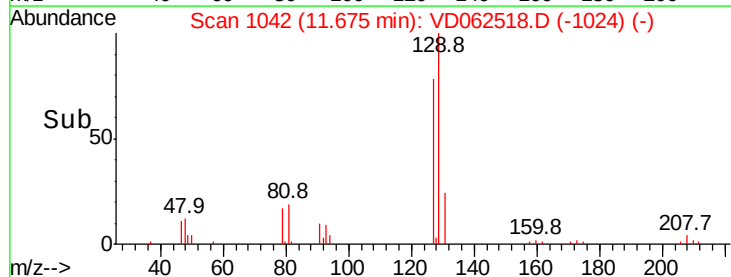
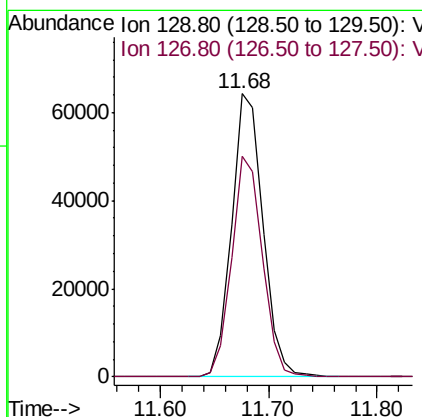
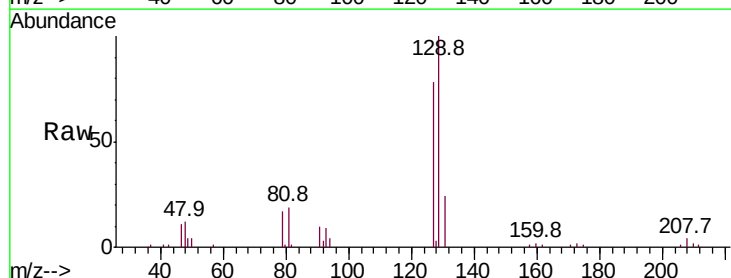
Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

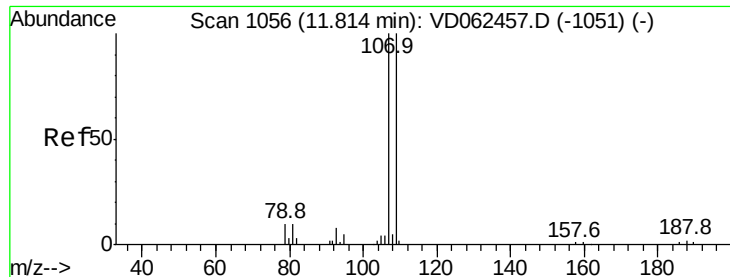
Tot Ion: 43 Resp: 182219
Ion Ratio Lower Upper
43 100
58 47.9 25.4 76.4



#60
Dibromochloromethane
Concen: 18.417 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.02 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion: 129 Resp: 128994
Ion Ratio Lower Upper
129 100
127 77.8 38.0 113.9

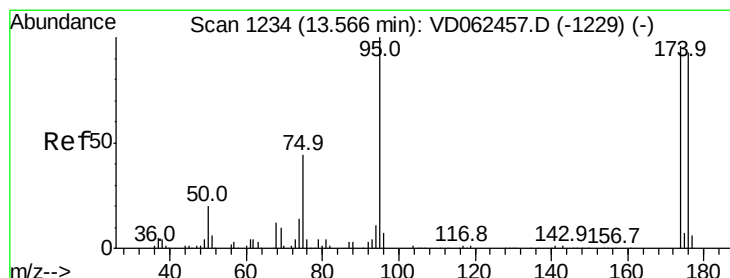
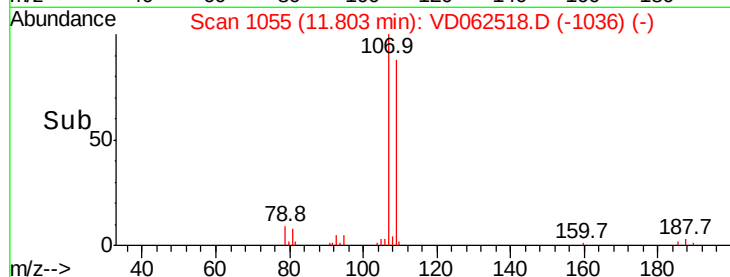
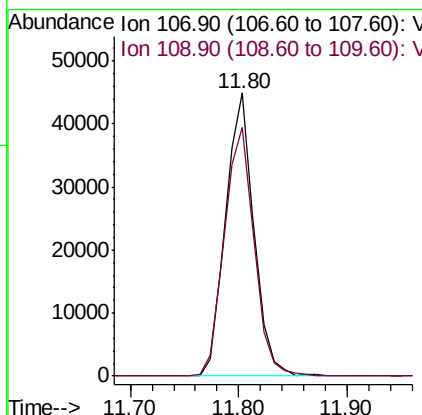
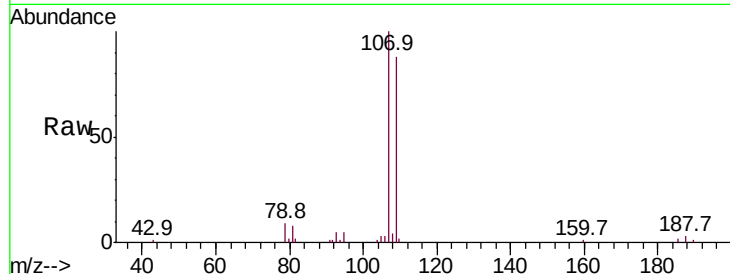




#61
 1,2-Dibromoethane
 Concen: 18.183 ug/l
 RT: 11.80 min Scan# 1055
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

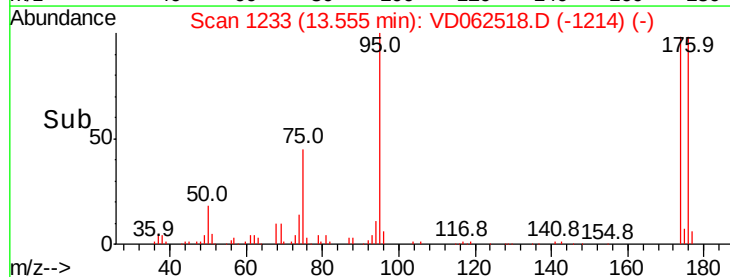
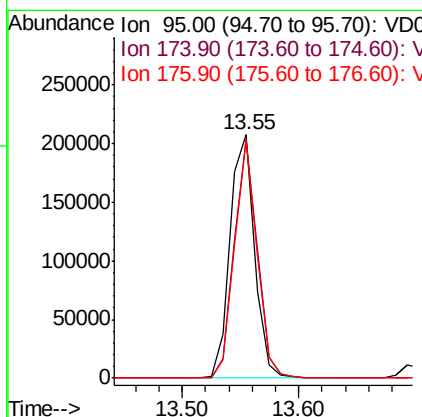
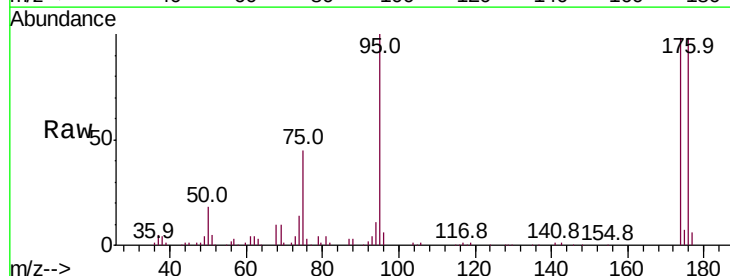
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

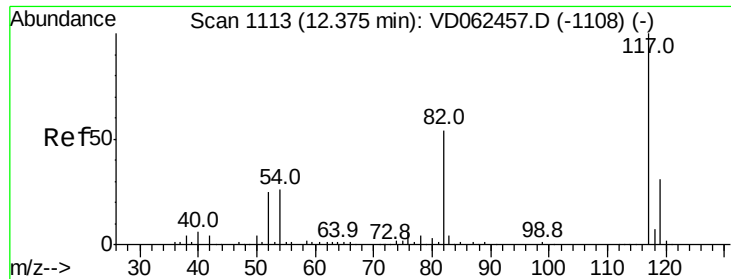
Tot Ion:107 Resp: 81715
 Ion Ratio Lower Upper
 107 100
 109 87.7 78.3 117.5



#62
 4-Bromofluorobenzene
 Concen: 41.873 ug/l
 RT: 13.55 min Scan# 1233
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion: 95 Resp: 303066
 Ion Ratio Lower Upper
 95 100
 174 98.2 0.0 181.8
 176 97.8 0.0 174.4

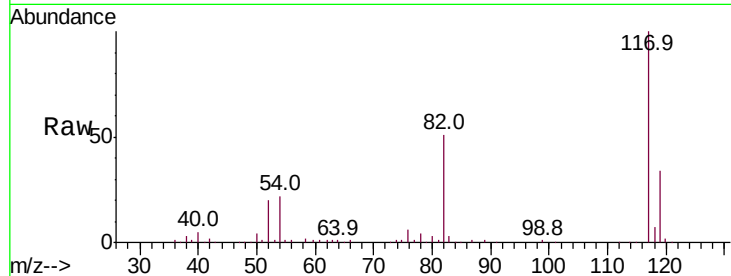




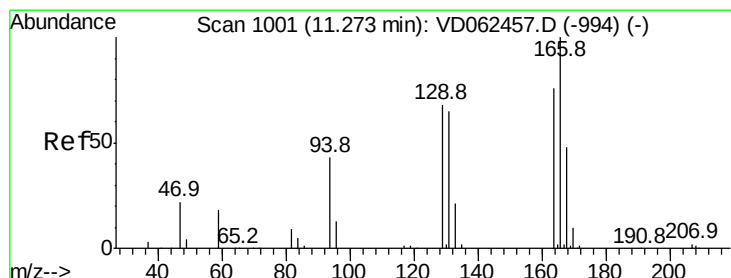
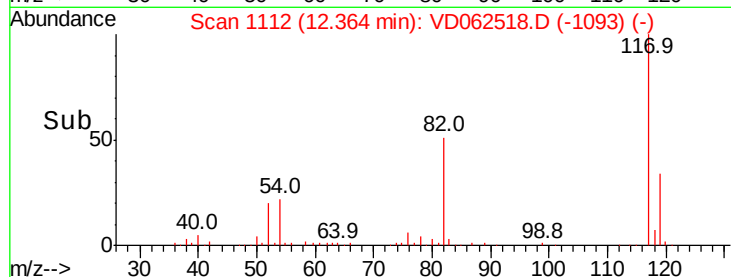
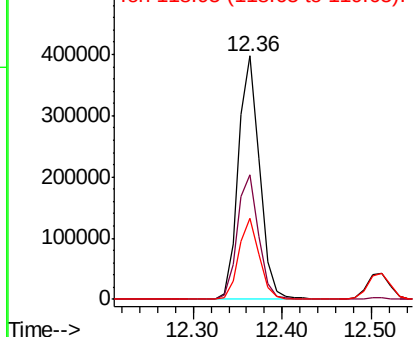
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

Tot Ion:117 Resp: 661684
Ion Ratio Lower Upper
117 100
82 51.0 36.2 54.2
119 33.5 26.2 39.4

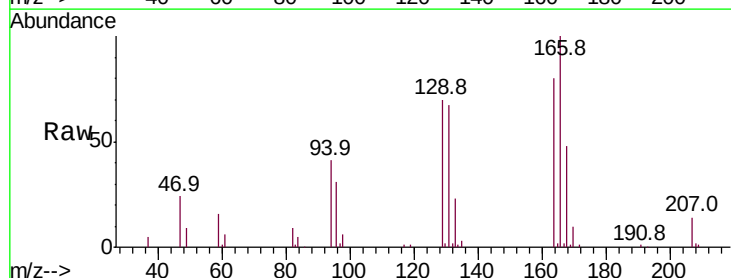


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

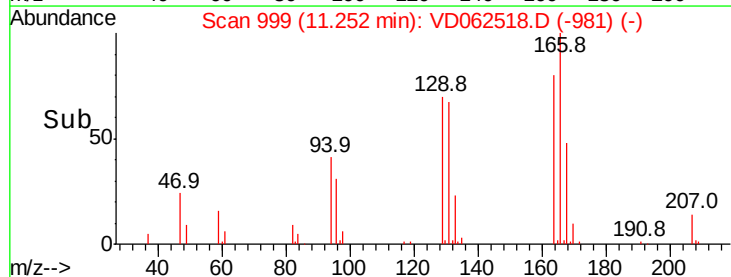
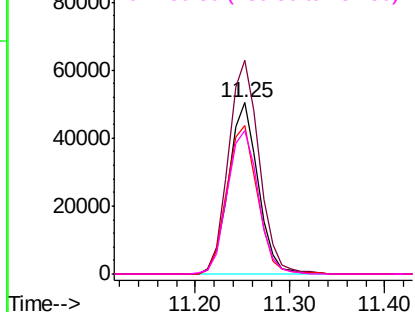


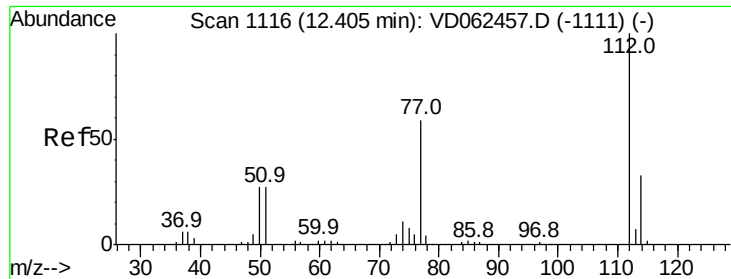
#64
Tetrachloroethene
Concen: 19.627 ug/l
RT: 11.25 min Scan# 999
Delta R.T. -0.02 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion:164 Resp: 108741
Ion Ratio Lower Upper
164 100
166 124.6 101.5 152.3
129 87.0 74.6 112.0
131 84.0 72.6 108.8



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

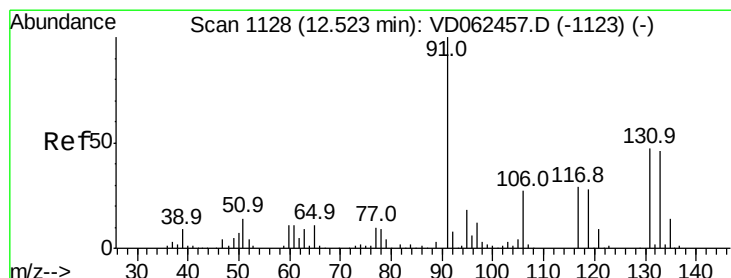
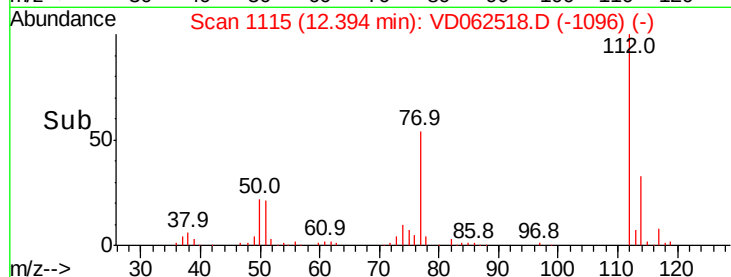
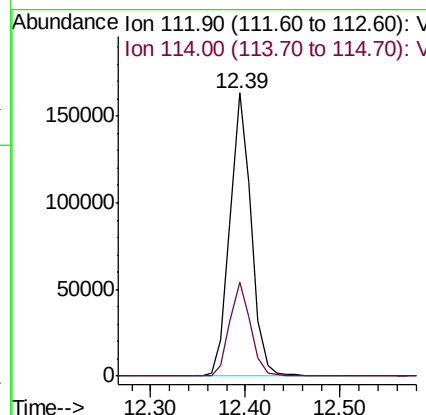
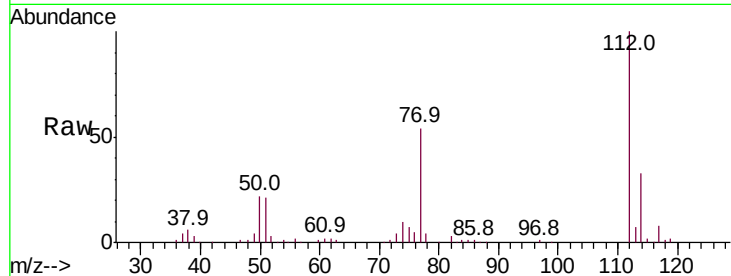




#65
Chlorobenzene
Concen: 19.884 ug/l
RT: 12.39 min Scan# 1115
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

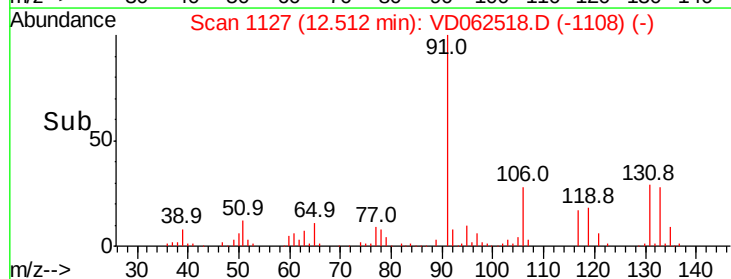
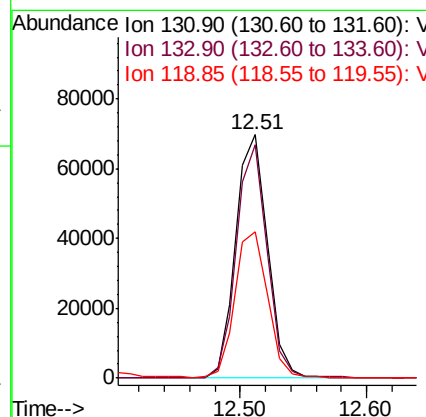
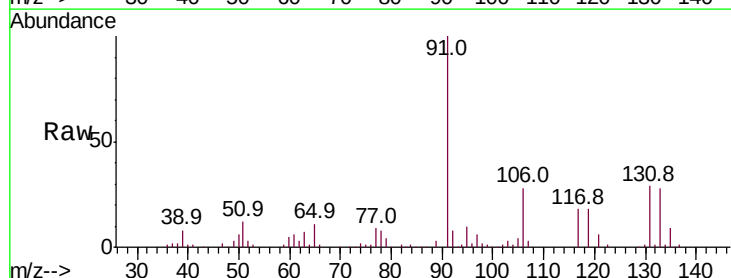
Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

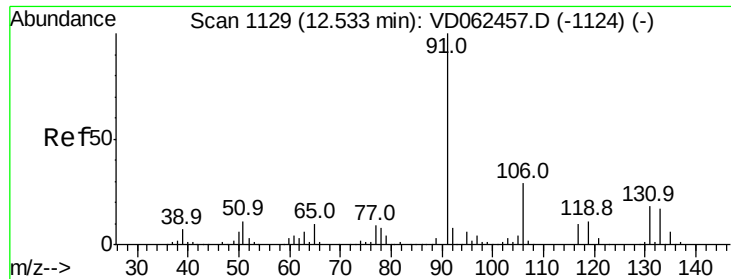
Tot Ion:112 Resp: 253015
Ion Ratio Lower Upper
112 100
114 33.2 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 20.618 ug/l
RT: 12.51 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion:131 Resp: 121105
Ion Ratio Lower Upper
131 100
133 96.0 48.6 145.8
119 60.2 34.7 104.1

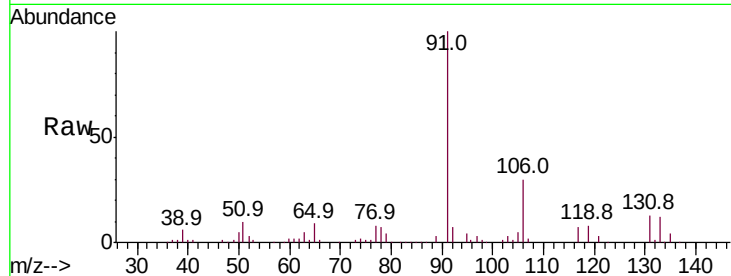




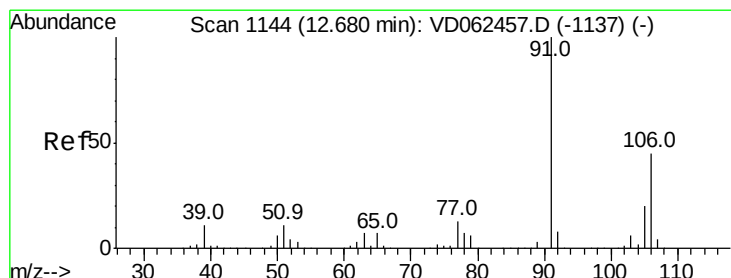
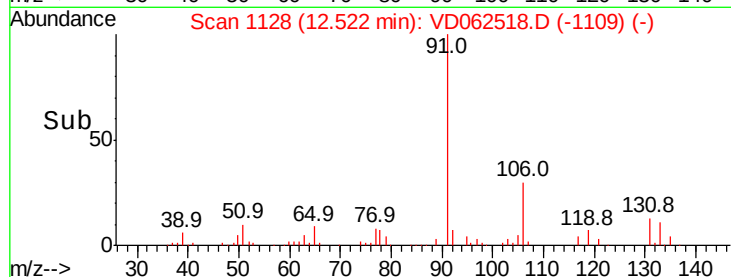
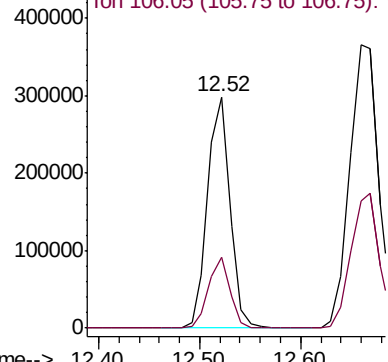
#67
Ethyl Benzene
Concen: 21.091 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

Tot Ion: 91 Resp: 462246
Ion Ratio Lower Upper
91 100
106 30.5 24.7 37.1

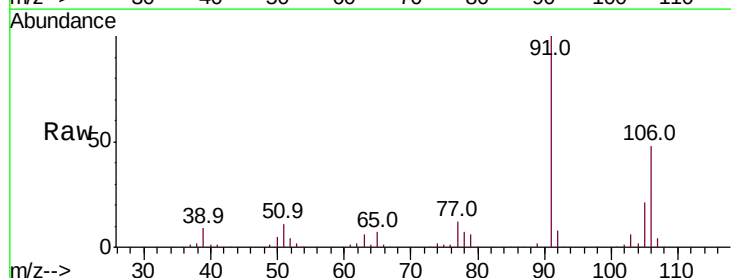


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

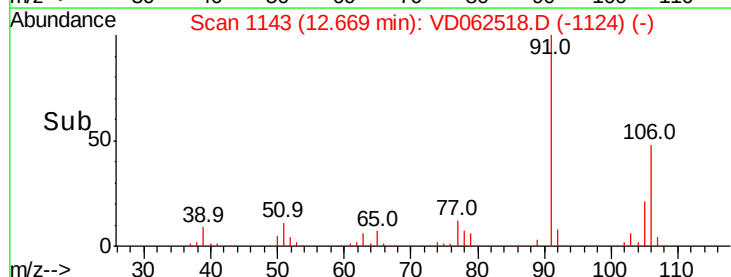
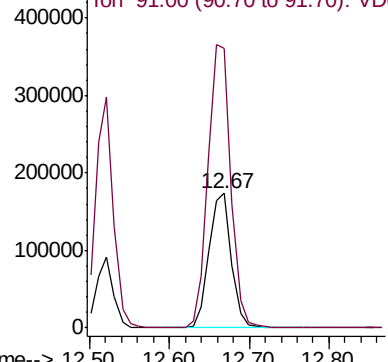


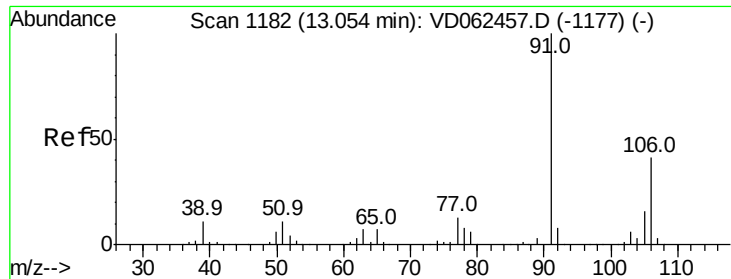
#68
m/p-Xylenes
Concen: 43.273 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion:106 Resp: 340446
Ion Ratio Lower Upper
106 100
91 207.8 164.0 246.0



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

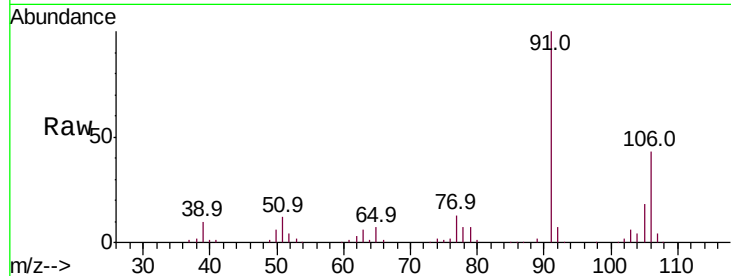




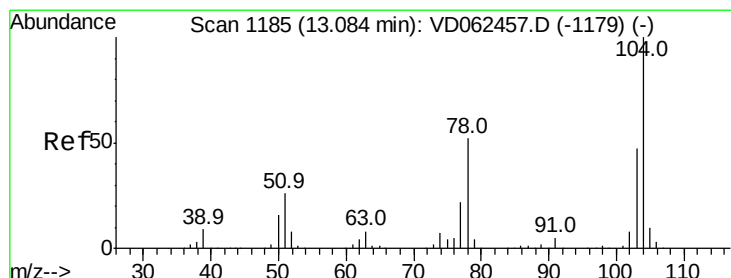
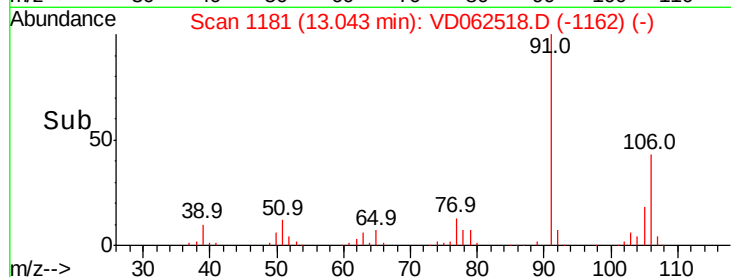
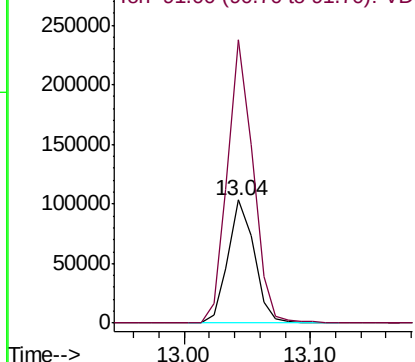
#69
o-Xylene
Concen: 20.152 ug/l
RT: 13.04 min Scan# 1181
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

Tot Ion:106 Resp: 149588
Ion Ratio Lower Upper
106 100
91 230.1 106.7 319.9

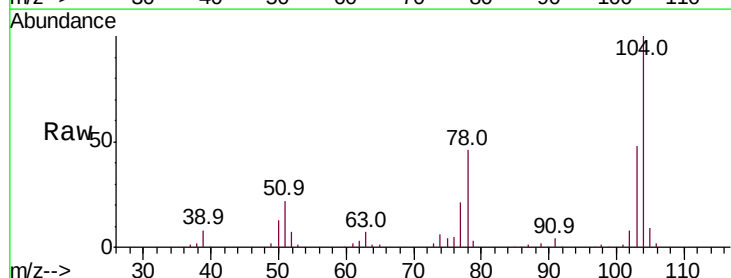


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

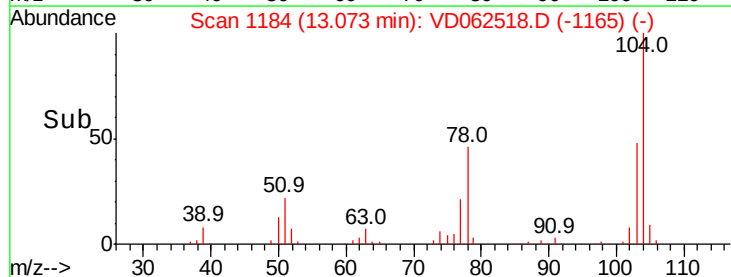
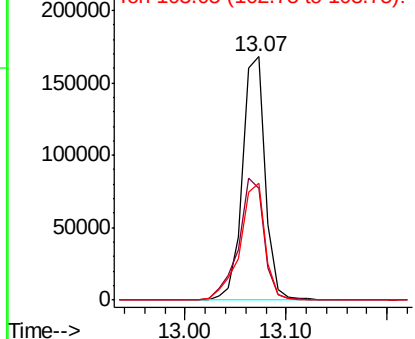


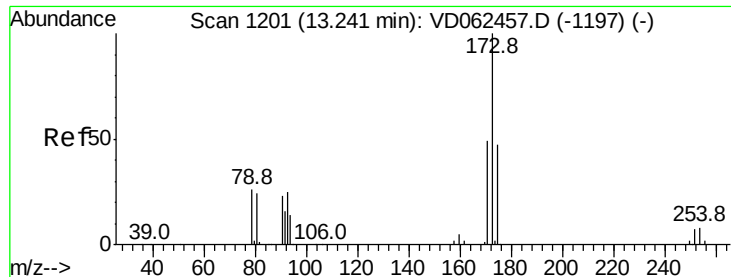
#70
Styrene
Concen: 20.964 ug/l
RT: 13.07 min Scan# 1184
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion:104 Resp: 264728
Ion Ratio Lower Upper
104 100
78 45.9 35.4 53.2
103 48.1 37.5 56.3



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

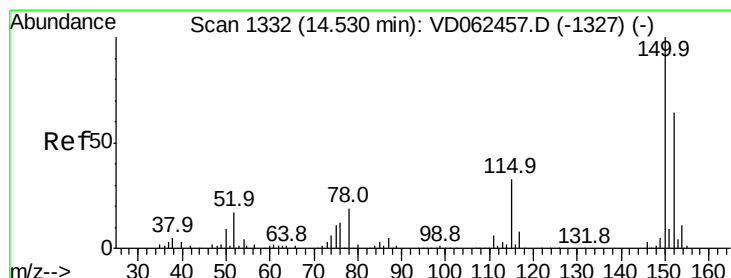
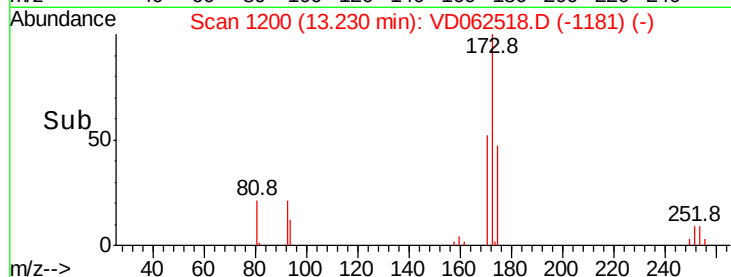
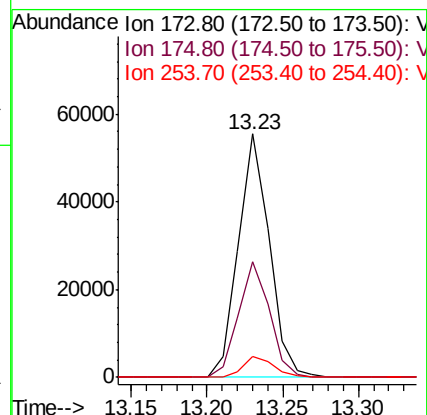
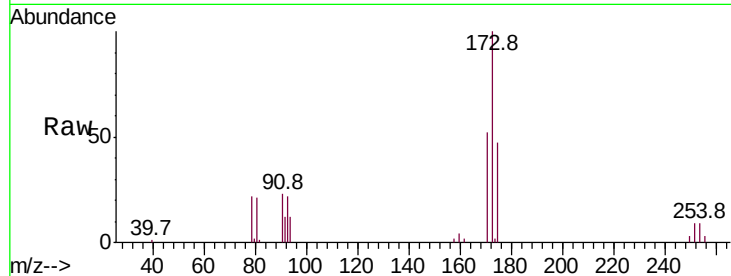




#71
Bromoform
Concen: 20.203 ug/l
RT: 13.23 min Scan# 1200
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

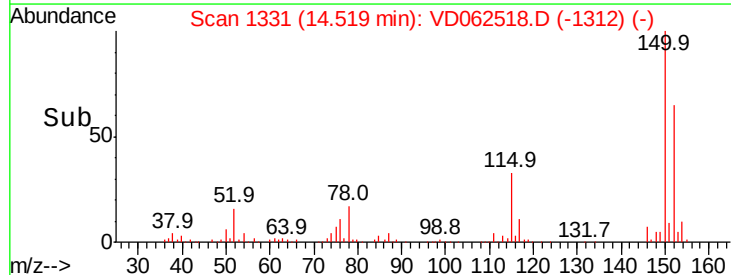
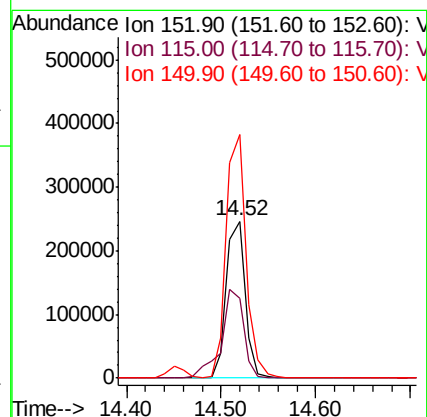
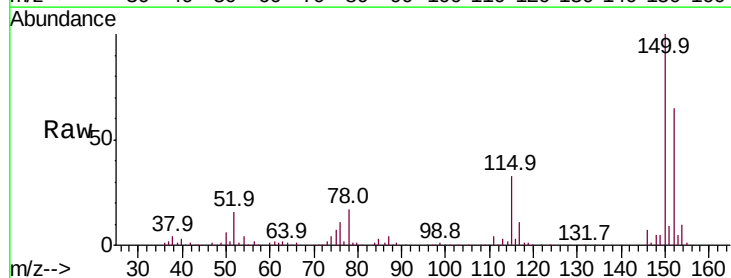
Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

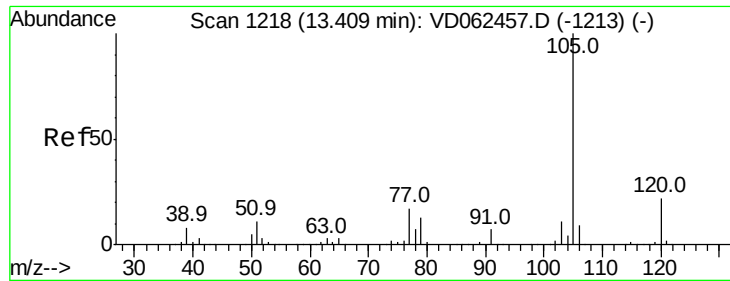
Tot Ion:173 Resp: 78808
Ion Ratio Lower Upper
173 100
175 47.4 24.4 73.4
254 8.7 5.4 8.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion:152 Resp: 342396
Ion Ratio Lower Upper
152 100
115 50.9 30.9 92.7
150 154.9 0.0 314.8





#73

Isopropylbenzene

Concen: 22.000 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

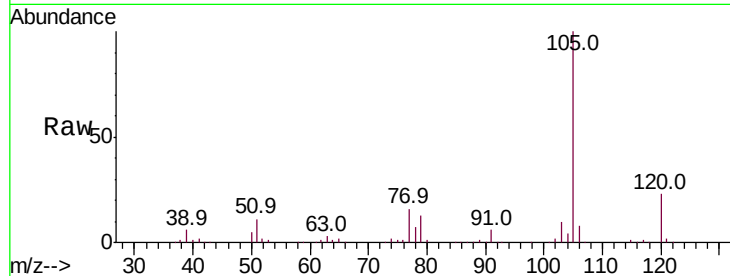
VD0523SBS01

Tot Ion:105 Resp: 474818

Ion Ratio Lower Upper

105 100

120 23.4 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

400000

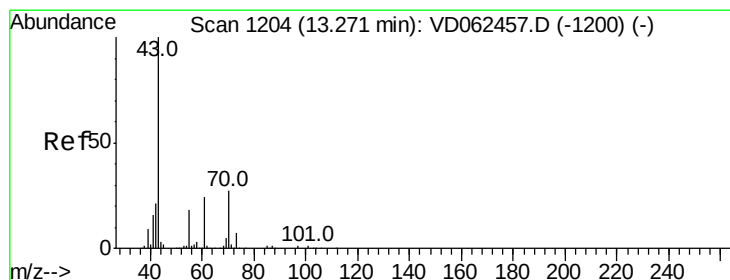
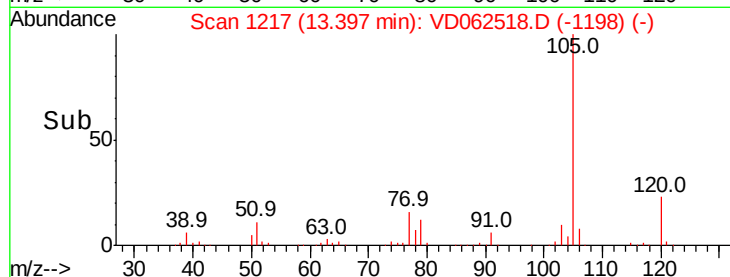
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 19.973 ug/l

RT: 13.26 min Scan# 1203

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Tgt Ion: 43 Resp: 106468

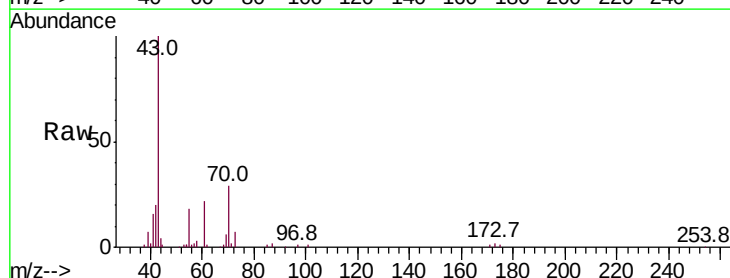
Ion Ratio Lower Upper

43 100

70 28.6 24.2 36.4

55 18.0 16.0 24.0

61 22.4 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

120000

100000

80000

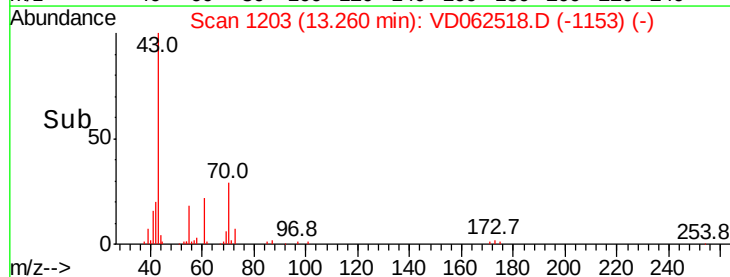
60000

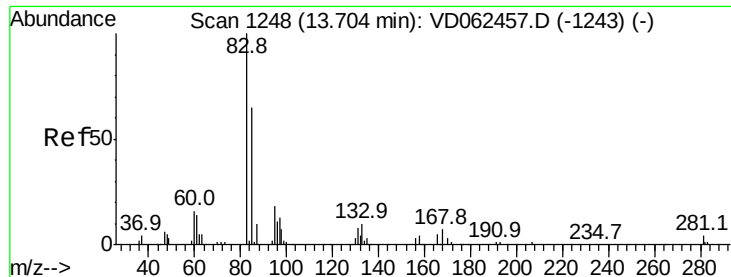
40000

20000

0

Time--> 13.20 13.25 13.30 13.35





#75

1,1,2,2-Tetrachloroethane

Concen: 19.760 ug/l

RT: 13.69 min Scan# 1247

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

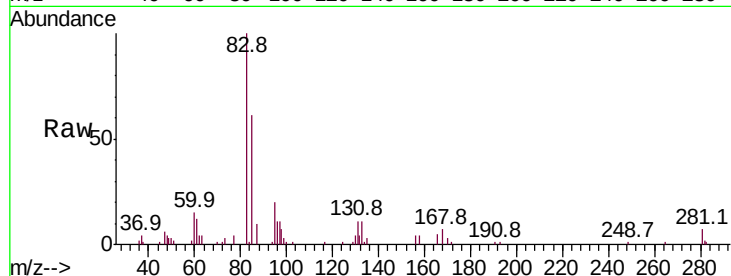
Tot Ion: 83 Resp: 76939

Ion Ratio Lower Upper

83 100

131 10.7 5.0 14.9

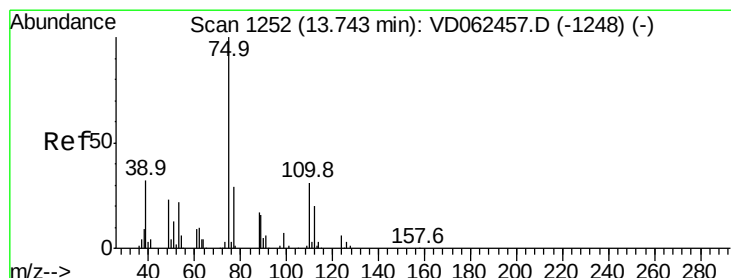
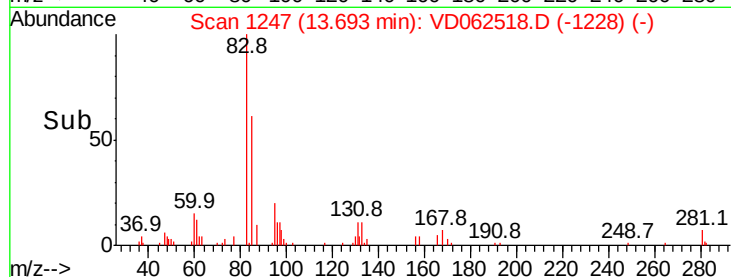
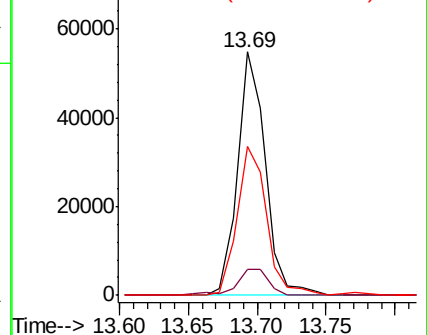
85 61.2 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 20.665 ug/l

RT: 13.73 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VD062518.D

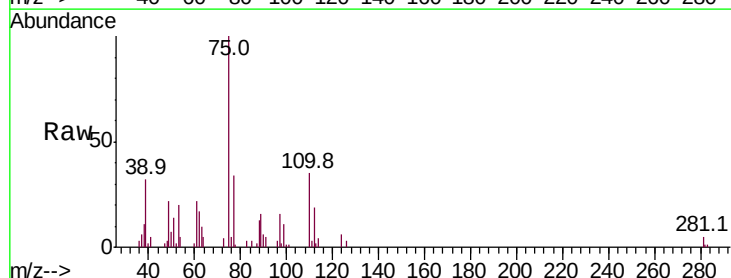
Acq: 23 May 2019 13:27

Tgt Ion: 75 Resp: 83344

Ion Ratio Lower Upper

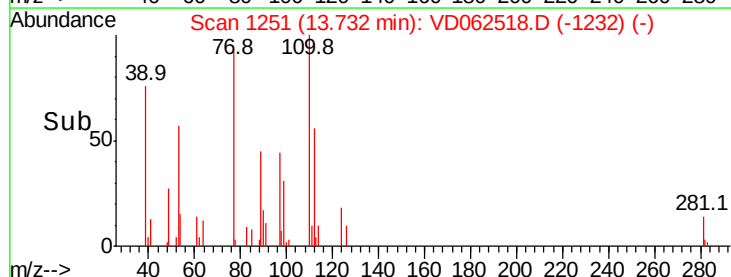
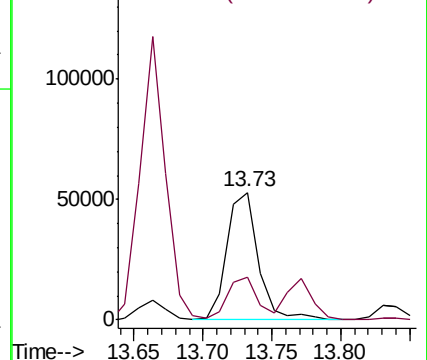
75 100

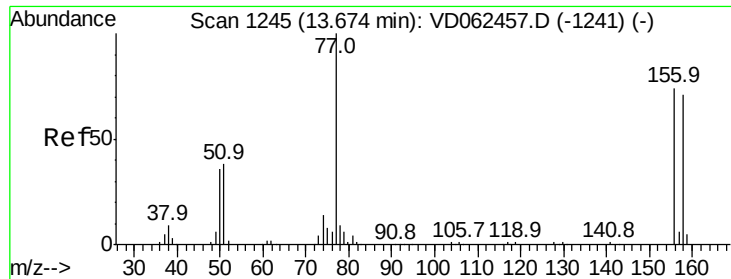
77 33.9 16.4 49.4



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 20.982 ug/l

RT: 13.66 min Scan# 1244

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

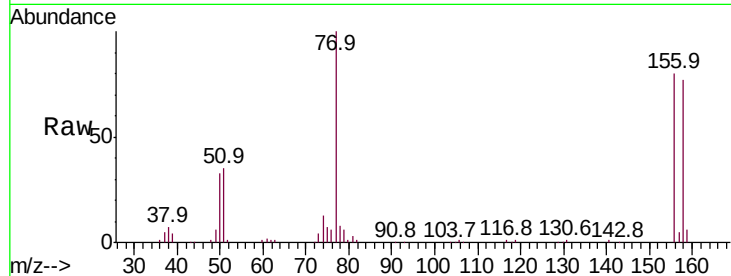
Tot Ion:156 Resp: 128458

Ion Ratio Lower Upper

156 100

77 124.8 53.1 159.4

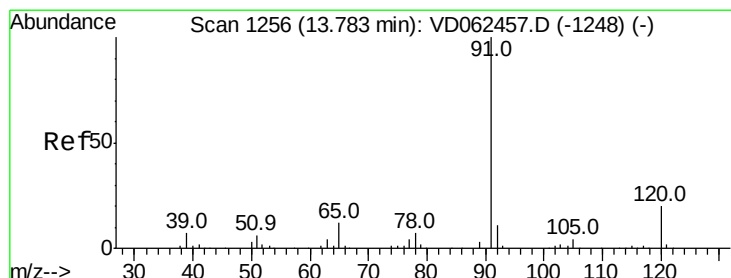
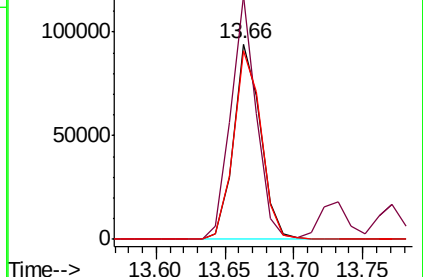
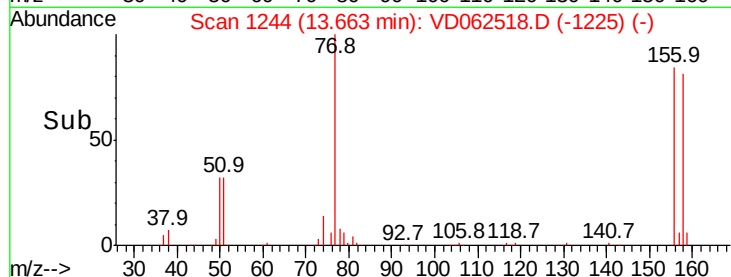
158 96.6 49.4 148.0



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 20.724 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. -0.01 min

Lab File: VD062518.D

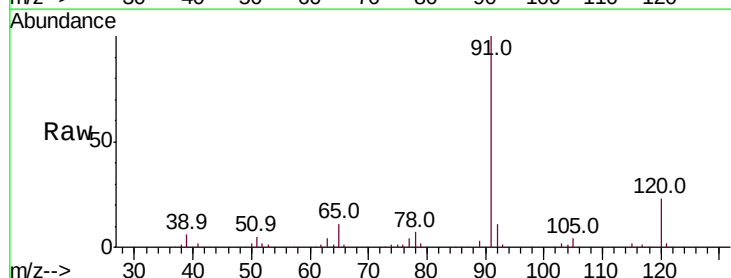
Acq: 23 May 2019 13:27

Tgt Ion: 91 Resp: 518103

Ion Ratio Lower Upper

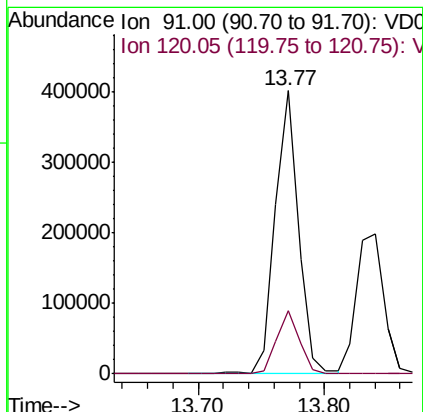
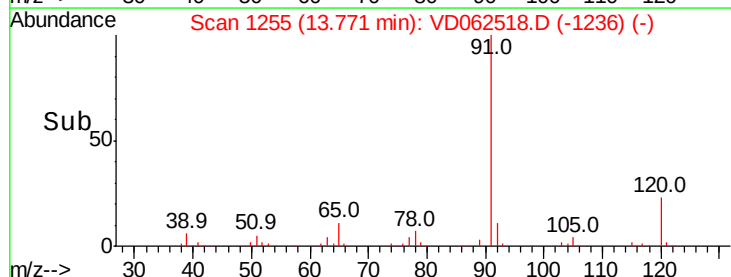
91 100

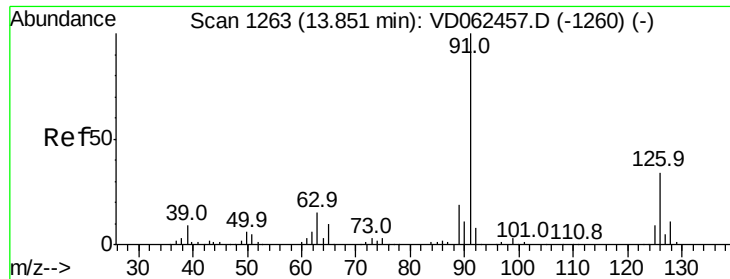
120 22.6 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 19.714 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. -0.01 min

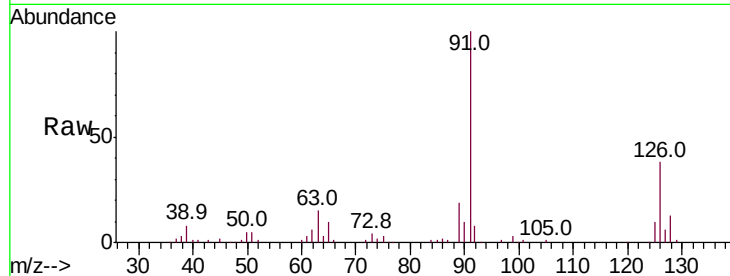
Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

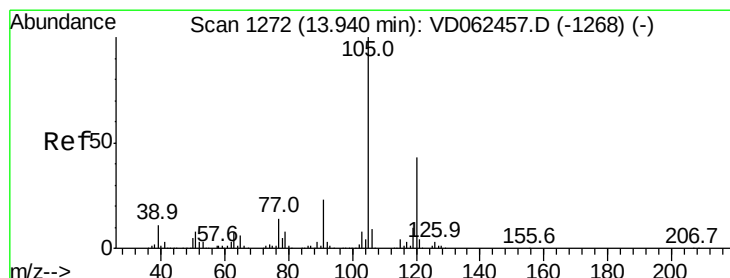
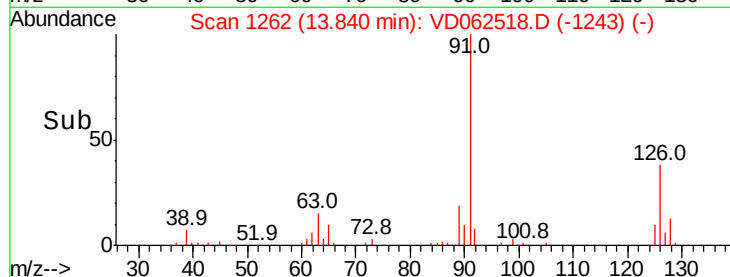
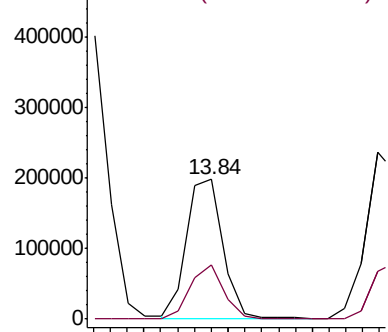
Tot Ion: 91 Resp: 299084

Ion	Ratio	Lower	Upper
91	100		
126	38.4	18.6	55.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 20.885 ug/l

RT: 13.93 min Scan# 1271

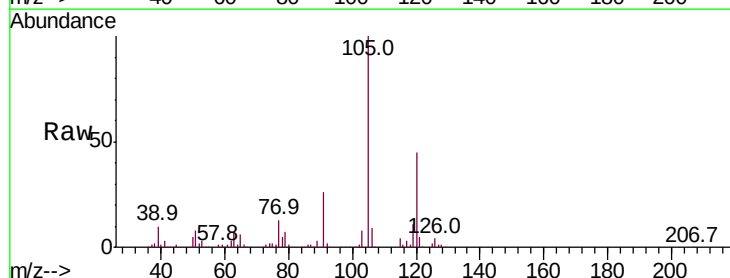
Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

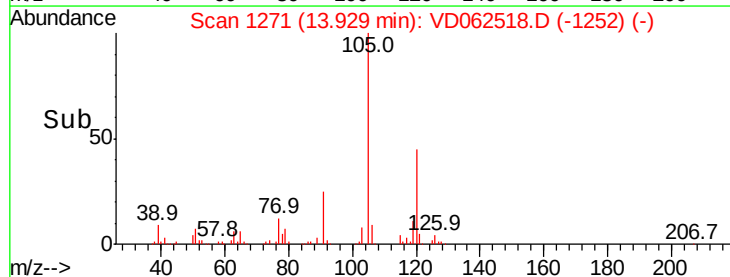
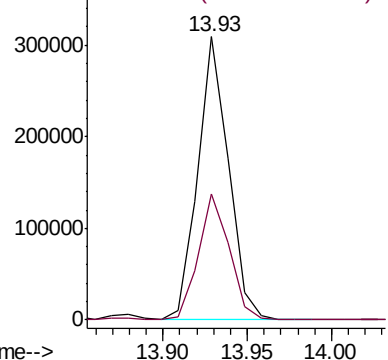
Tgt Ion: 105 Resp: 390278

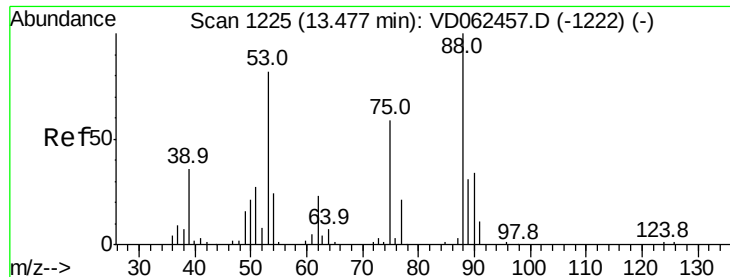
Ion	Ratio	Lower	Upper
105	100		
120	44.6	24.0	72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 21.045 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

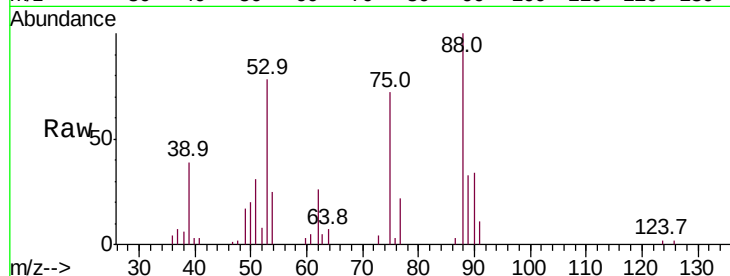
Tot Ion: 75 Resp: 23937

Ion Ratio Lower Upper

75 100

53 107.5 65.8 98.8#

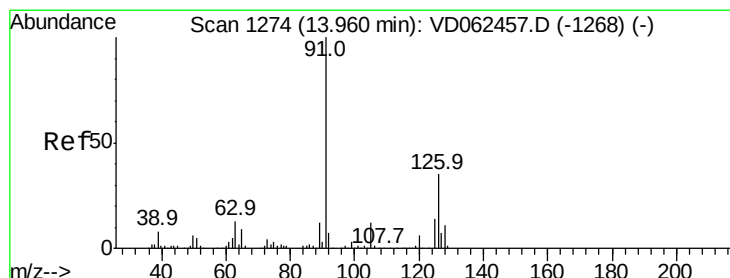
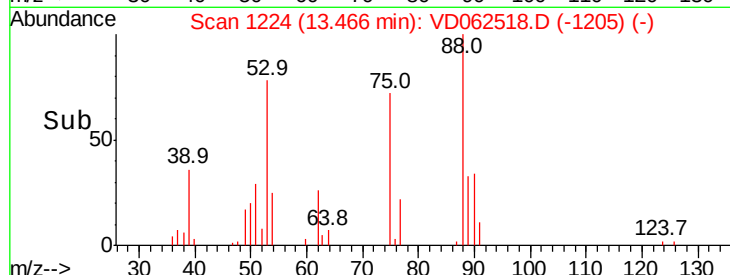
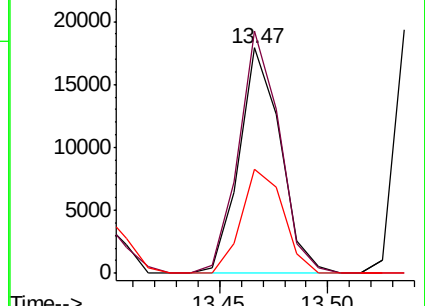
89 46.2 35.0 52.6



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 20.516 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. -0.02 min

Lab File: VD062518.D

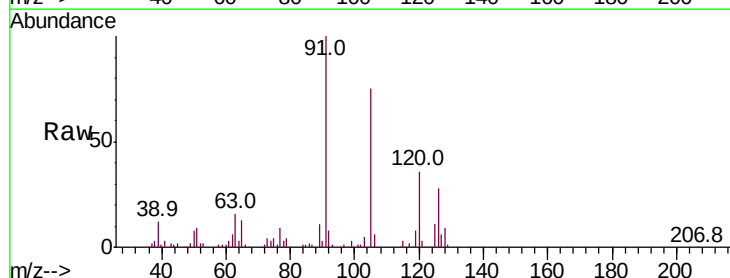
Acq: 23 May 2019 13:27

Tgt Ion: 91 Resp: 358459

Ion Ratio Lower Upper

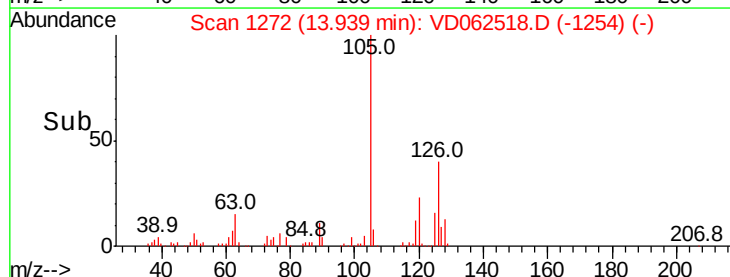
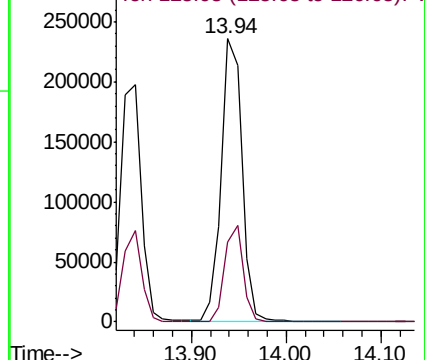
91 100

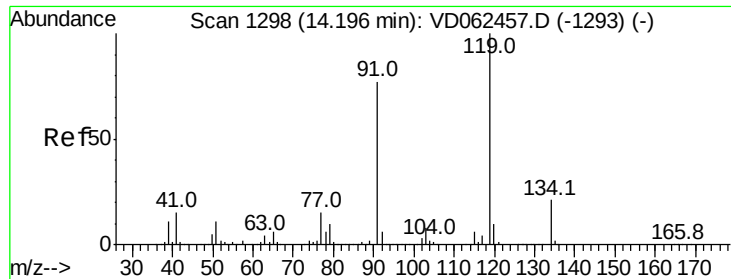
126 28.4 19.1 57.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

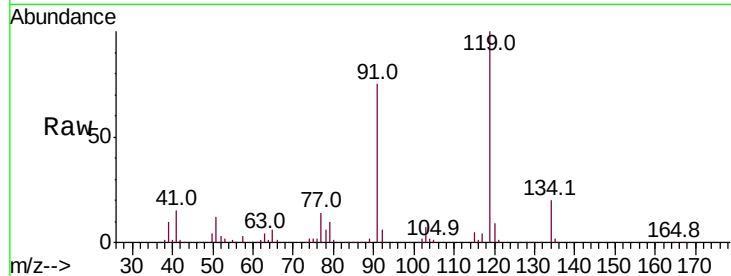




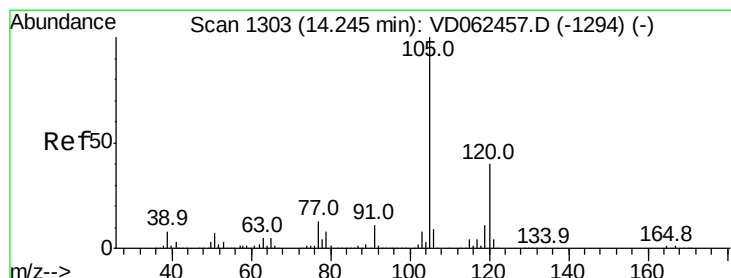
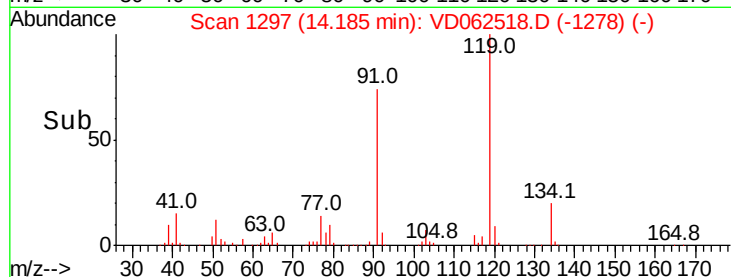
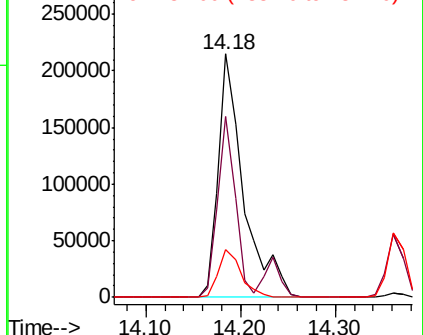
#83
 tert-Butylbenzene
 Concen: 19.345 ug/l
 RT: 14.18 min Scan# 1297
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

Tot Ion:119 Resp: 400993
 Ion Ratio Lower Upper
 119 100
 91 74.5 34.2 102.6
 134 19.6 12.0 36.0

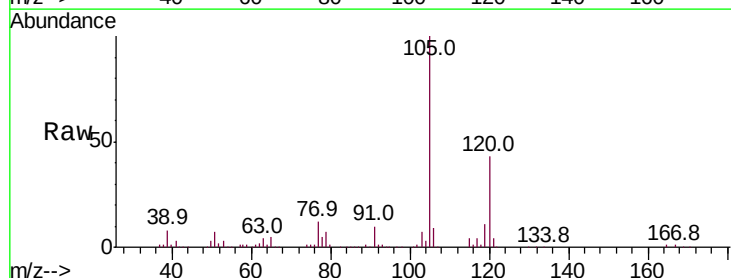


Abundance Ion 119.05 (118.75 to 119.75): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V

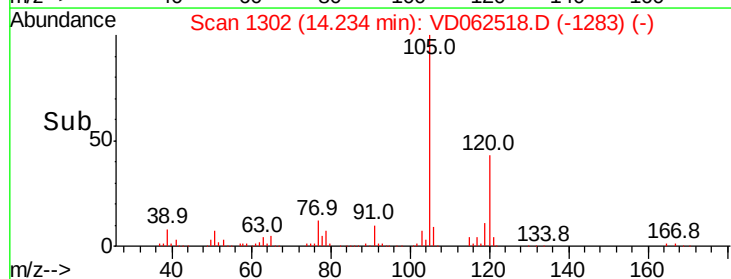
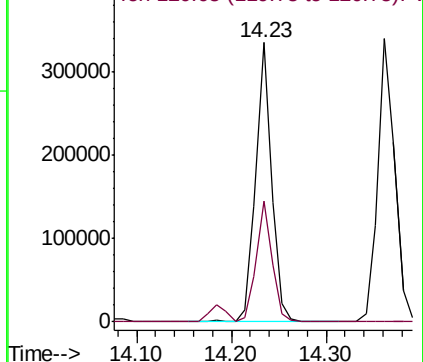


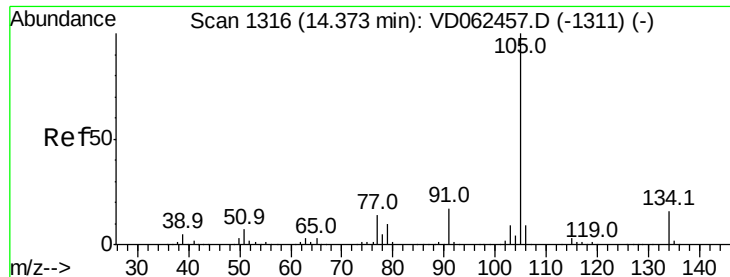
#84
 1,2,4-Trimethylbenzene
 Concen: 20.403 ug/l
 RT: 14.23 min Scan# 1302
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion:105 Resp: 390674
 Ion Ratio Lower Upper
 105 100
 120 43.1 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V
 Ion 120.05 (119.75 to 120.75): V

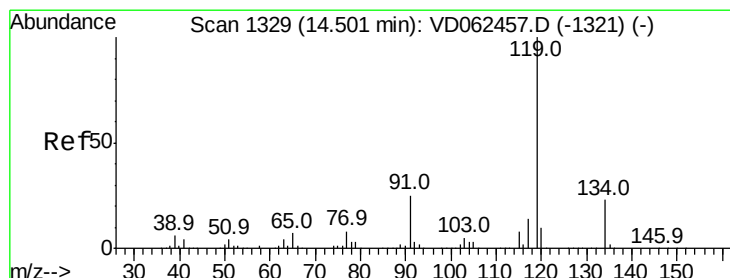
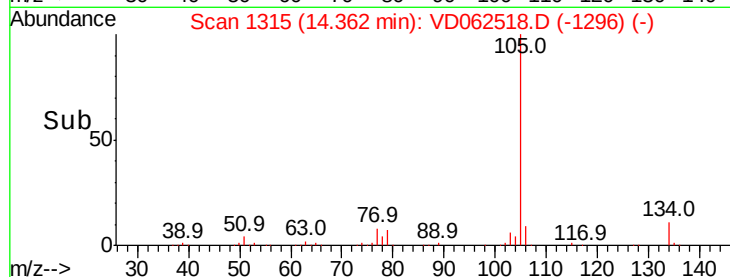
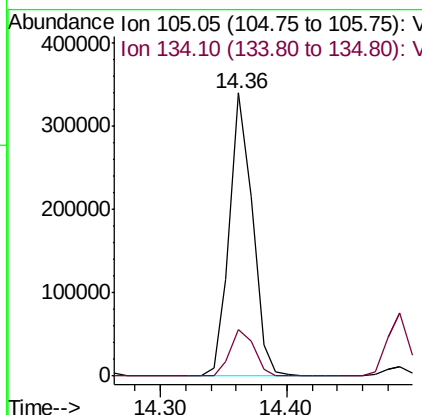
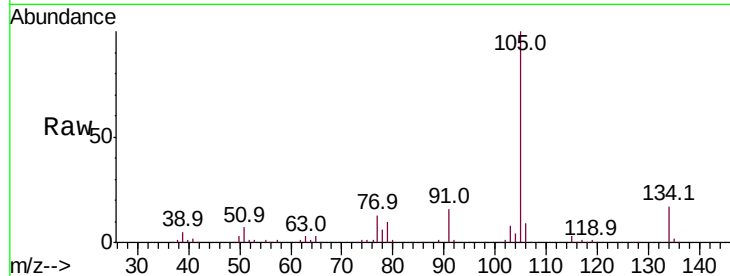




#85
 sec-Butylbenzene
 Concen: 19.844 ug/l
 RT: 14.36 min Scan# 1315
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

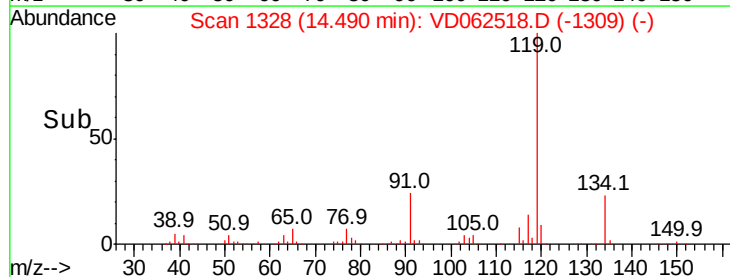
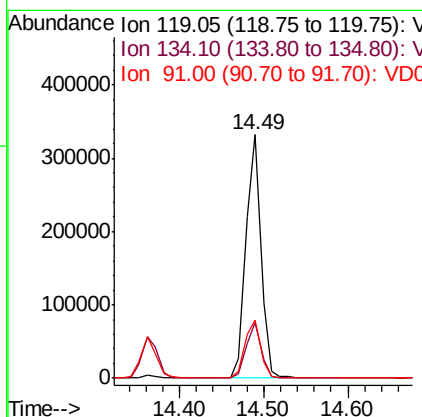
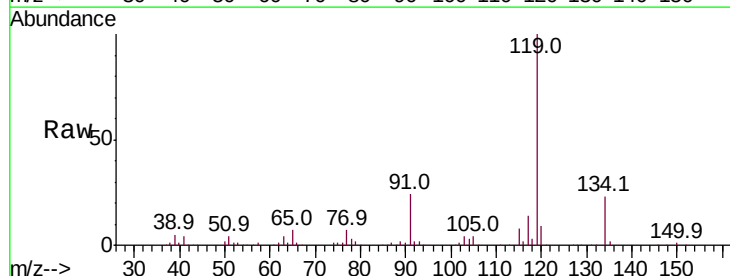
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

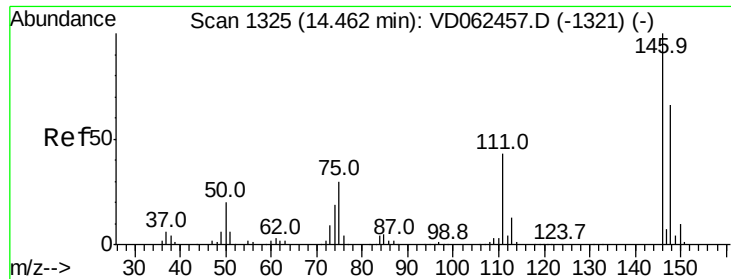
Tot Ion:105 Resp: 428909
 Ion Ratio Lower Upper
 105 100
 134 16.7 8.9 26.7



#86
 p-Isopropyltoluene
 Concen: 21.148 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion:119 Resp: 414226
 Ion Ratio Lower Upper
 119 100
 134 23.0 12.8 38.3
 91 24.0 10.7 32.1

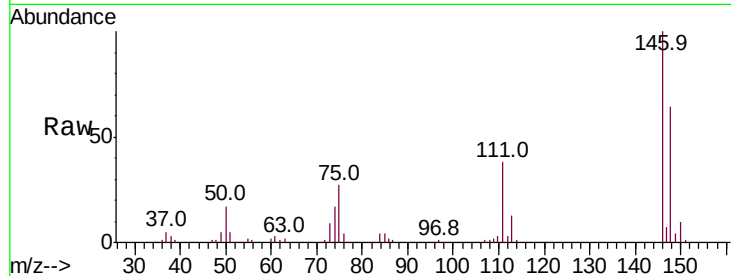




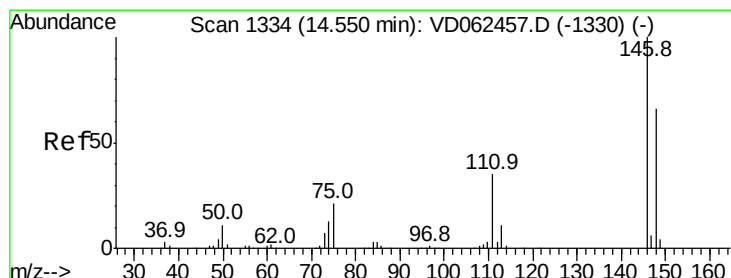
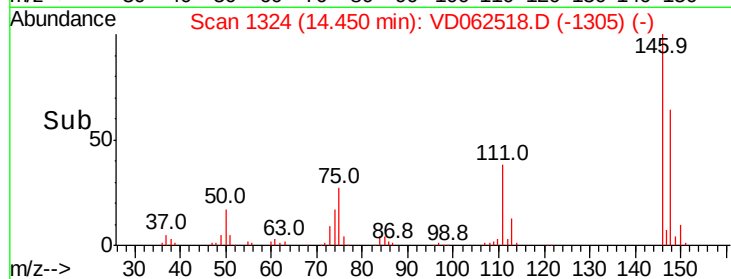
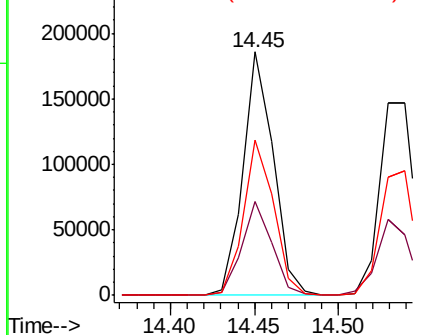
#87
 1,3-Dichlorobenzene
 Concen: 21.511 ug/l
 RT: 14.45 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Instrument :
 MSVOA_D
 ClientSampleID :
 VD0523SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.4	20.0	60.0
148	63.8	31.8	95.4

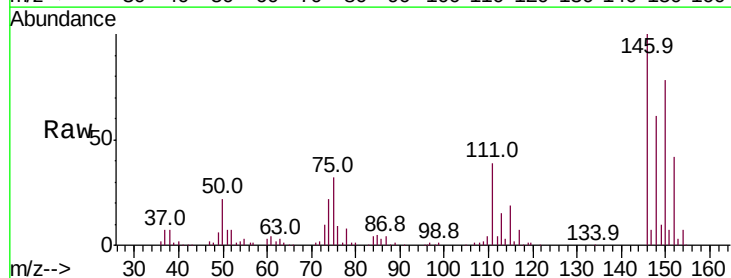


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

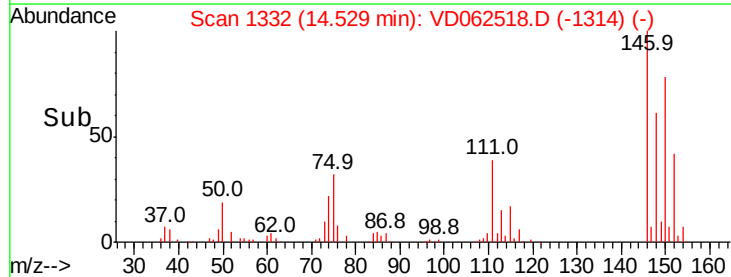
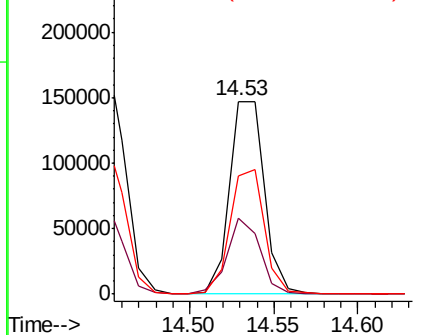


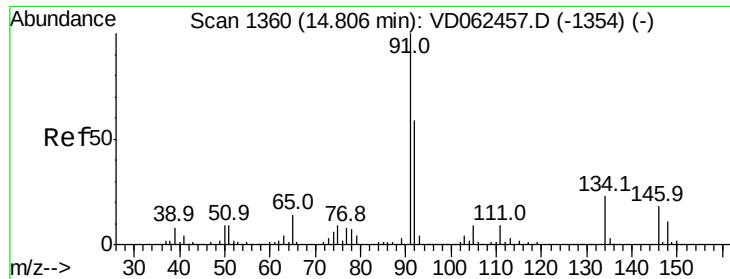
#88
 1,4-Dichlorobenzene
 Concen: 20.367 ug/l
 RT: 14.53 min Scan# 1332
 Delta R.T. -0.02 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.2	60.5
148	61.1	32.0	96.2



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 20.007 ug/l

RT: 14.79 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

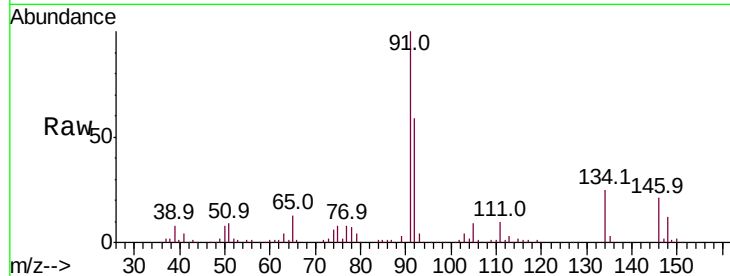
Tot Ion: 91 Resp: 378191

Ion Ratio Lower Upper

91 100

92 59.0 30.3 91.0

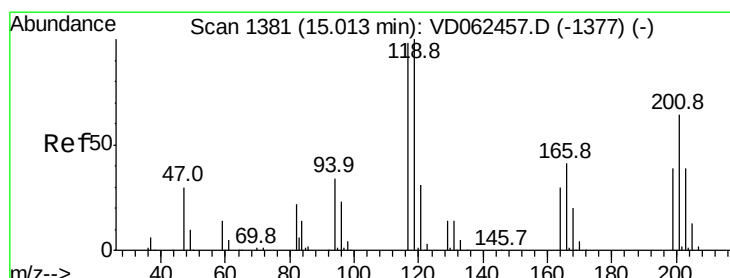
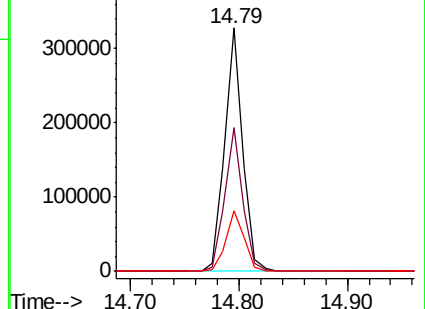
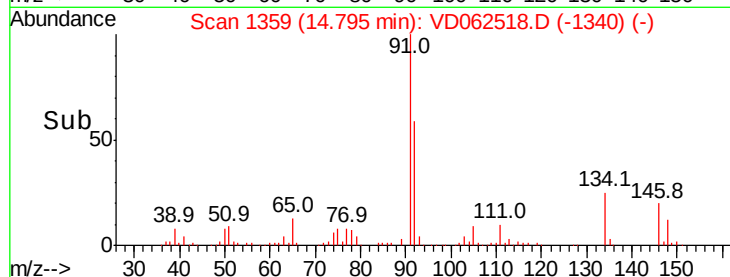
134 25.1 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 20.224 ug/l

RT: 15.00 min Scan# 1380

Delta R.T. -0.01 min

Lab File: VD062518.D

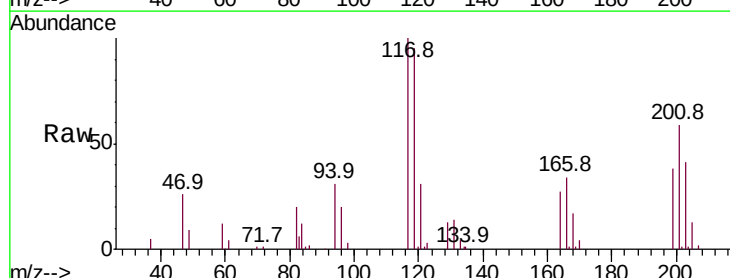
Acq: 23 May 2019 13:27

Tgt Ion: 117 Resp: 109476

Ion Ratio Lower Upper

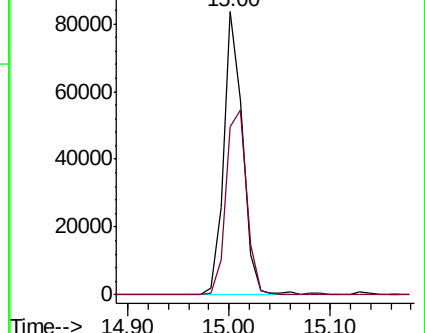
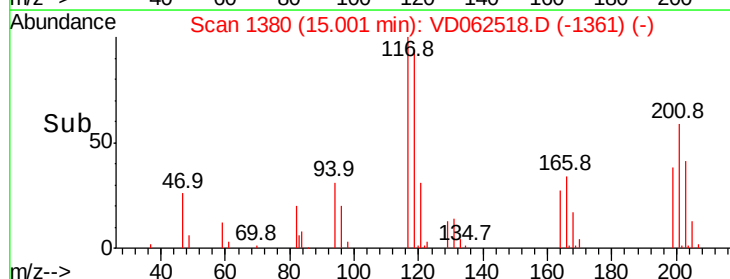
117 100

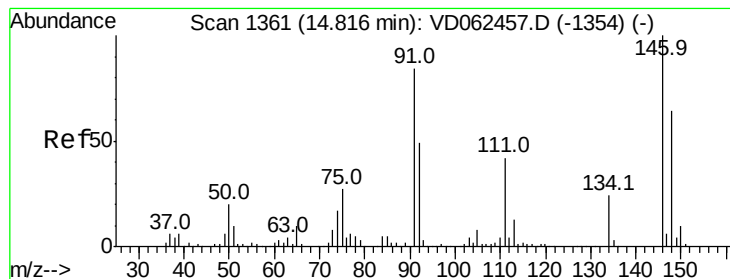
201 59.2 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 21.174 ug/l

RT: 14.80 min Scan# 1360

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

Instrument :

MSVOA_D

ClientSampleId :

VD0523SBS01

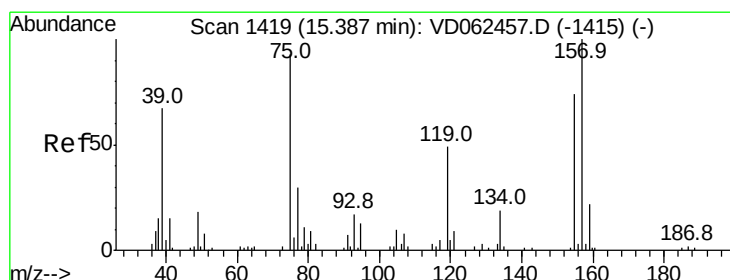
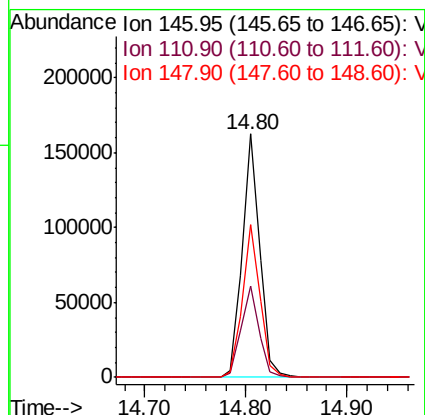
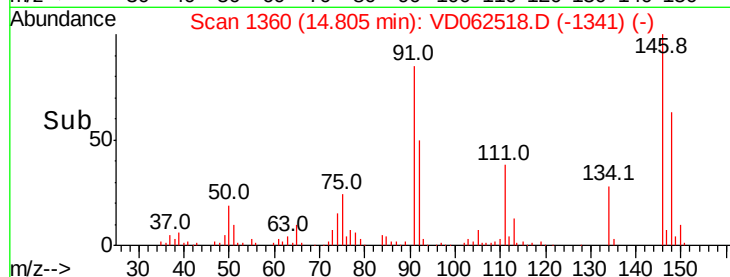
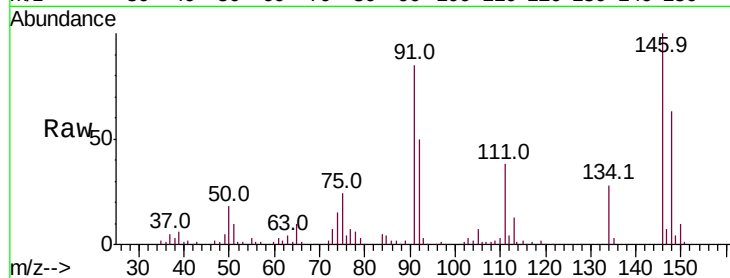
Tot Ion:146 Resp: 194669

Ion Ratio Lower Upper

146 100

111 37.5 20.0 59.9

148 62.8 32.3 96.8



#92

1,2-Dibromo-3-Chloropropane

Concen: 18.814 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. -0.01 min

Lab File: VD062518.D

Acq: 23 May 2019 13:27

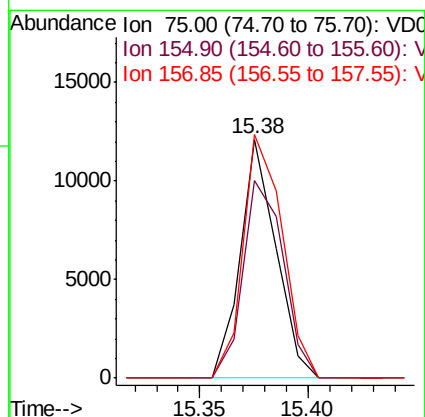
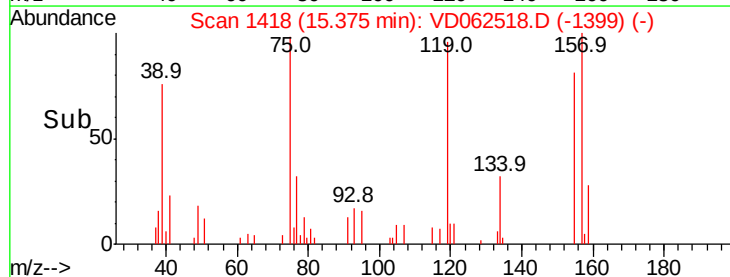
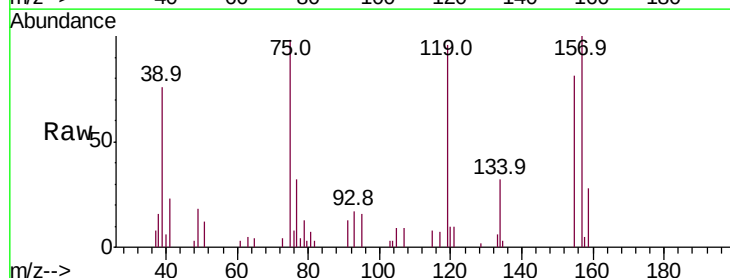
Tgt Ion: 75 Resp: 13905

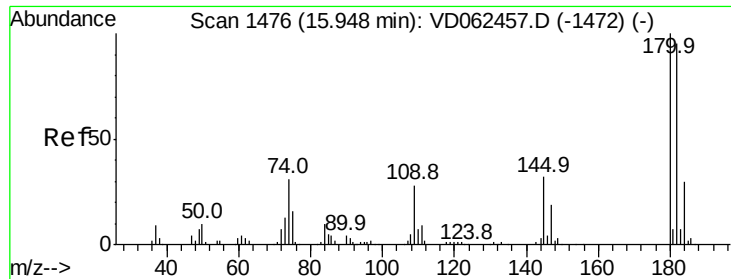
Ion Ratio Lower Upper

75 100

155 82.5 55.3 165.8

157 101.9 67.8 203.2

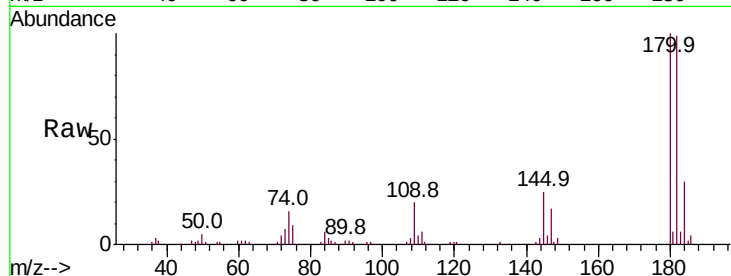




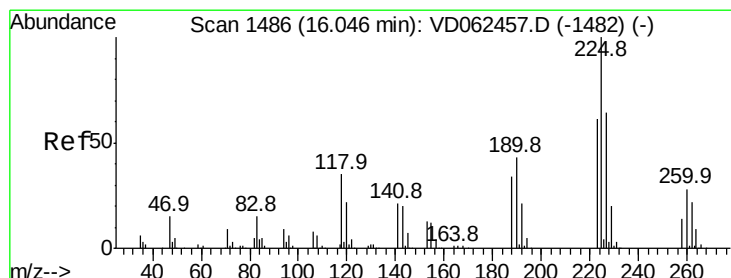
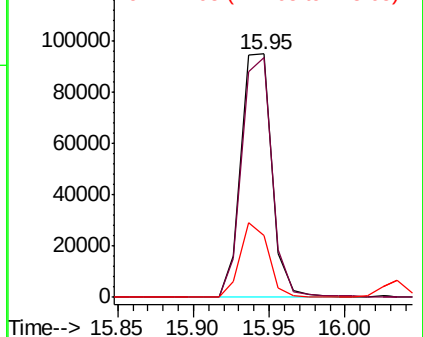
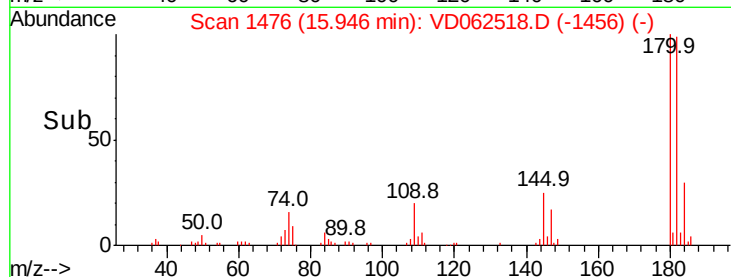
#93
 1,2,4-Trichlorobenzene
 Concen: 18.556 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. -0.00 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0523SBS01

Tot Ion:180 Resp: 134329
 Ion Ratio Lower Upper
 180 100
 182 98.5 49.3 147.8
 145 25.5 16.2 48.6

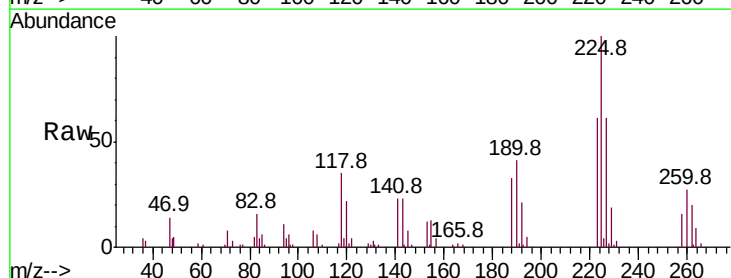


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

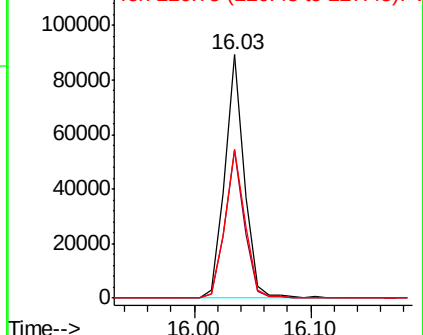
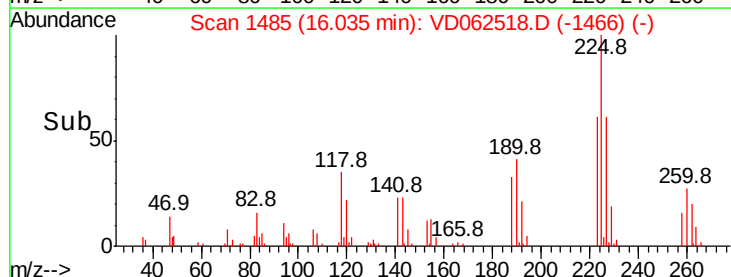


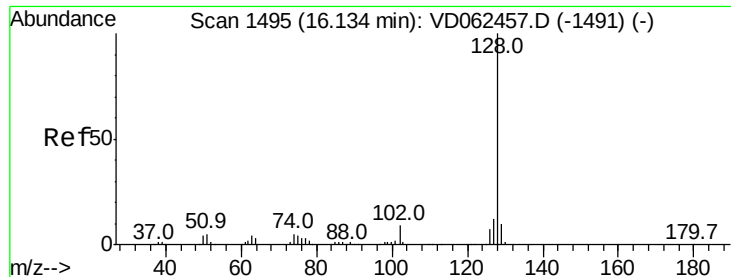
#94
 Hexachlorobutadiene
 Concen: 19.398 ug/l
 RT: 16.03 min Scan# 1485
 Delta R.T. -0.01 min
 Lab File: VD062518.D
 Acq: 23 May 2019 13:27

Tgt Ion:225 Resp: 103687
 Ion Ratio Lower Upper
 225 100
 223 60.5 30.6 92.0
 227 61.0 32.0 96.2



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

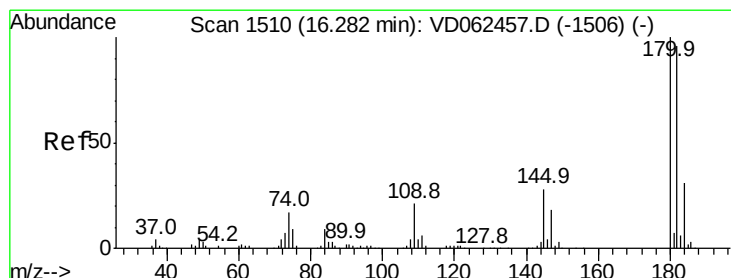
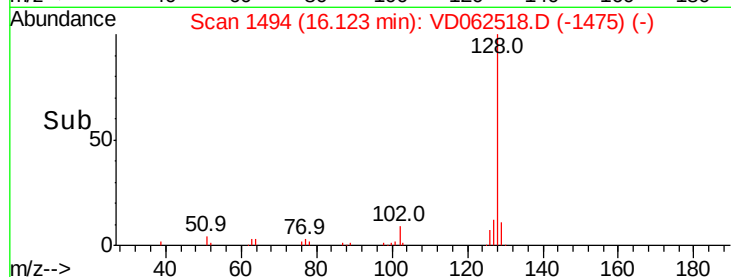
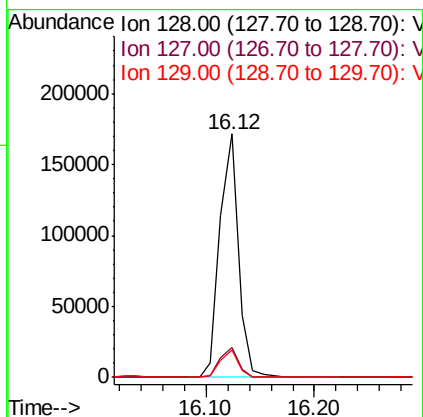
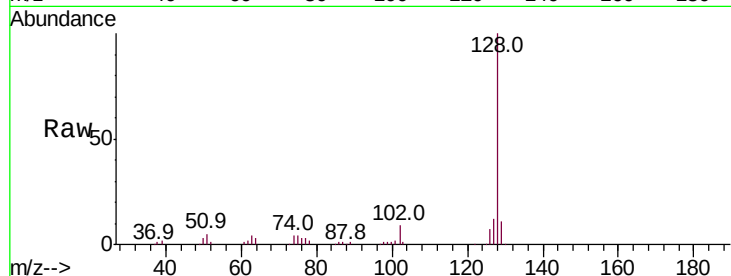




#95
Naphthalene
Concen: 20.983 ug/l
RT: 16.12 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Instrument :
MSVOA_D
ClientSampleId :
VD0523SBS01

Tot Ion:128 Resp: 207551
Ion Ratio Lower Upper
128 100
127 12.3 9.8 14.8
129 11.0 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 19.040 ug/l
RT: 16.27 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VD062518.D
Acq: 23 May 2019 13:27

Tgt Ion:180 Resp: 112992
Ion Ratio Lower Upper
180 100
182 96.0 47.0 141.0
145 27.7 17.0 51.0

