

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
 Data File : VD062413.D
 Acq On : 16 May 2019 13:13
 Operator : FY/SY
 Sample : VD0516SBS01
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBS01

Quant Time: May 17 02:27:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	637685	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	876943	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	786413	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	435369	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	279435	47.15	ug/l	0.03
Spiked Amount	50.000		Recovery	=	94.30%	
35) Dibromofluoromethane	6.92	113	334744	46.01	ug/l	0.03
Spiked Amount	50.000		Recovery	=	92.02%	
50) Toluene-d8	10.42	98	734744	41.88	ug/l	0.02
Spiked Amount	50.000		Recovery	=	83.76%	
62) 4-Bromofluorobenzene	13.56	95	291818	41.42	ug/l	0.01
Spiked Amount	50.000		Recovery	=	82.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	95015	15.579	ug/l	97
3) Chloromethane	1.76	50	67370	15.287	ug/l	95
4) Vinyl Chloride	1.86	62	68993	15.930	ug/l	95
5) Bromomethane	2.15	94	29517	29.086	ug/l	97
6) Chloroethane	2.25	64	36307	19.978	ug/l	91
7) Trichlorofluoromethane	2.52	101	182127	21.630	ug/l	98
8) Diethyl Ether	2.87	74	23516	14.481	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	3.14	101	121782	19.119	ug/l	98
10) Methyl Iodide	3.30	142	128186	13.316	ug/l #	85
11) Tert butyl alcohol	4.08	59	28720	94.944	ug/l #	90
12) 1,1-Dichloroethene	3.12	96	81891	16.842	ug/l	90
13) Acrolein	3.04	56	21957	70.179	ug/l	97
14) Allyl chloride	3.62	41	115024	16.270	ug/l #	77
15) Acrylonitrile	4.20	53	70477	88.640	ug/l	93
16) Acetone	3.22	43	129404	104.126	ug/l #	87
17) Carbon Disulfide	3.37	76	183283	13.104	ug/l	99
18) Methyl Acetate	3.65	43	37660	16.742	ug/l #	88
19) Methyl tert-butyl Ether	4.24	73	196992	18.902	ug/l	96
20) Methylene Chloride	3.81	84	91395	17.613	ug/l	100
21) trans-1,2-Dichloroethene	4.22	96	88805	16.413	ug/l #	78
22) Diisopropyl ether	5.12	45	288651	19.187	ug/l	92
23) Vinyl Acetate	5.06	43	803517	101.231	ug/l	98
24) 1,1-Dichloroethane	4.98	63	164641	18.141	ug/l	98
25) 2-Butanone	6.08	43	130406	96.201	ug/l	93
26) 2,2-Dichloropropane	6.03	77	190695	21.094	ug/l	93
27) cis-1,2-Dichloroethene	6.04	96	106803	17.635	ug/l	94
28) Bromochloromethane	6.44	49	91881	25.732	ug/l	94
29) Tetrahydrofuran	6.46	42	56172	89.935	ug/l	92
30) Chloroform	6.67	83	222173	20.313	ug/l	96
31) Cyclohexane	6.96	56	95144	15.302	ug/l	97
32) 1,1,1-Trichloroethane	6.87	97	210311	20.343	ug/l	96
36) 1,1-Dichloropropene	7.15	75	130837	18.197	ug/l	95
37) Ethyl Acetate	6.19	43	63638	20.870	ug/l #	92
38) Carbon Tetrachloride	7.11	117	198995	19.996	ug/l	98

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	112310	16.303	ug/l	96
40) Benzene	7.45	78	285128	17.561	ug/l	96
41) Methacrylonitrile	6.45	41	74315	19.943	ug/l #	81
42) 1,2-Dichloroethane	7.58	62	148315	21.561	ug/l	93
43) Isopropyl Acetate	9.25	43	79798	18.453	ug/l	92
44) Trichloroethene	8.55	130	109625	17.719	ug/l	83
45) 1,2-Dichloropropane	8.95	63	71502	17.804	ug/l	96
46) Dibromomethane	9.07	93	59291	18.155	ug/l	93
47) Bromodichloromethane	9.38	83	157912	19.768	ug/l	100
48) Methyl methacrylate	9.13	41	51548	19.352	ug/l #	84
49) 1,4-Dioxane	9.09	88	9601	334.063	ug/l	92
51) 4-Methyl-2-Pentanone	10.31	43	269906	97.095	ug/l	95
52) Toluene	10.52	92	196875	18.637	ug/l	99
53) t-1,3-Dichloropropene	10.92	75	135010	19.555	ug/l	100
54) cis-1,3-Dichloropropene	10.04	75	150396	19.968	ug/l	91
55) 1,1,2-Trichloroethane	11.19	97	73327	19.618	ug/l	95
56) Ethyl methacrylate	11.05	69	62417	16.070	ug/l #	83
57) 1,3-Dichloropropane	11.41	76	101089	17.902	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.86	63	218309	102.898	ug/l	99
59) 2-Hexanone	11.54	43	211345	103.154	ug/l	93
60) Dibromochloromethane	11.69	129	124623	19.293	ug/l	97
61) 1,2-Dibromoethane	11.80	107	88368	19.446	ug/l	100
64) Tetrachloroethene	11.26	164	93822	15.257	ug/l	97
65) Chlorobenzene	12.40	112	272267	18.588	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	114027	17.888	ug/l	96
67) Ethyl Benzene	12.52	91	439001	17.903	ug/l	94
68) m/p-Xylenes	12.67	106	327622	36.723	ug/l	89
69) o-Xylene	13.05	106	146582	17.673	ug/l	83
70) Styrene	13.07	104	255296	18.170	ug/l	96
71) Bromoform	13.24	173	80618	18.177	ug/l	97
73) Isopropylbenzene	13.41	105	471540	18.068	ug/l	97
74) N-amyl acetate	13.27	43	107897	15.769	ug/l	93
75) 1,1,2,2-Tetrachloroethane	13.70	83	77832	15.754	ug/l	99
76) 1,2,3-Trichloropropane	13.73	75	80875	15.631	ug/l	96
77) Bromobenzene	13.67	156	123180	16.861	ug/l	99
78) n-propylbenzene	13.77	91	529259	17.001	ug/l	91
79) 2-Chlorotoluene	13.84	91	322570	18.092	ug/l	89
80) 1,3,5-Trimethylbenzene	13.94	105	367084	16.704	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.48	75	22337	15.292	ug/l #	79
82) 4-Chlorotoluene	13.95	91	372364	17.748	ug/l	86
83) tert-Butylbenzene	14.20	119	424391	17.181	ug/l	98
84) 1,2,4-Trimethylbenzene	14.25	105	392428	17.795	ug/l	93
85) sec-Butylbenzene	14.37	105	466202	17.214	ug/l	99
86) p-Isopropyltoluene	14.49	119	410984	16.985	ug/l	91
87) 1,3-Dichlorobenzene	14.46	146	225447	16.893	ug/l	95
88) 1,4-Dichlorobenzene	14.54	146	218134	16.635	ug/l	97
89) n-Butylbenzene	14.80	91	389853	17.951	ug/l	93
90) Hexachloroethane	15.01	117	110564	16.803	ug/l	69
91) 1,2-Dichlorobenzene	14.82	146	198205	18.034	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	15.39	75	13794	17.009	ug/l	92

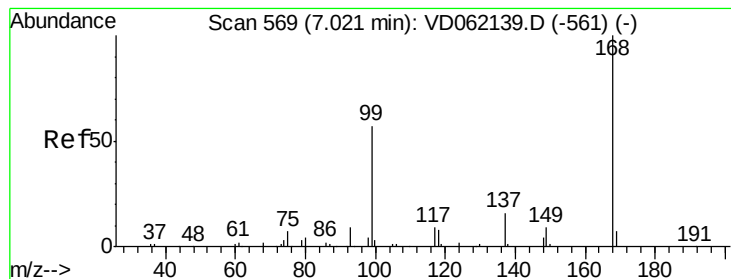
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
Data File : VD062413.D
Acq On : 16 May 2019 13:13
Operator : FY/SY
Sample : VD0516SBSD01
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	152014	19.002	ug/l	97
94) Hexachlorobutadiene	16.04	225	104495	17.562	ug/l	98
95) Naphthalene	16.12	128	204583	18.317	ug/l	99
96) 1,2,3-Trichlorobenzene	16.27	180	119045	23.668	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

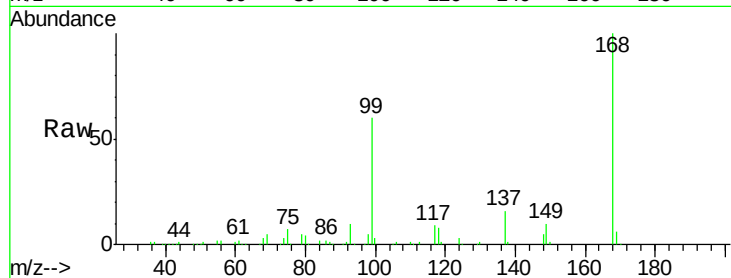
VD0516SBSD01

Tot Ion:168 Resp: 637685

Ion Ratio Lower Upper

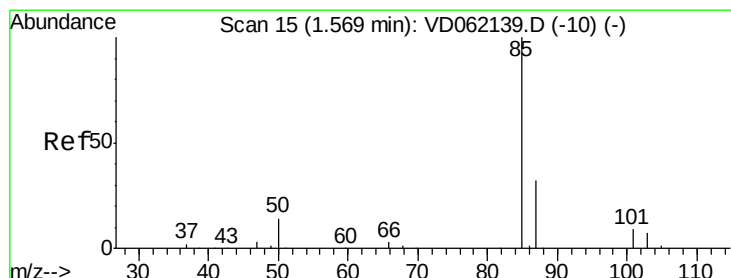
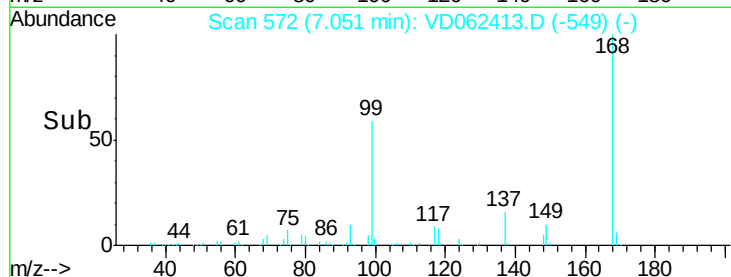
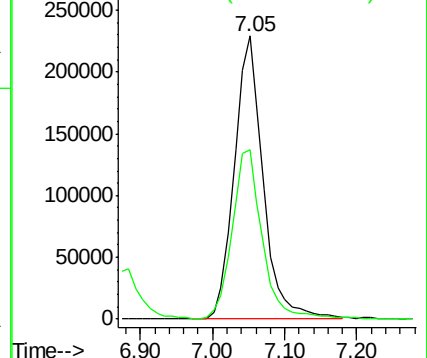
168 100

99 59.7 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: 15.579 ug/l

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062413.D

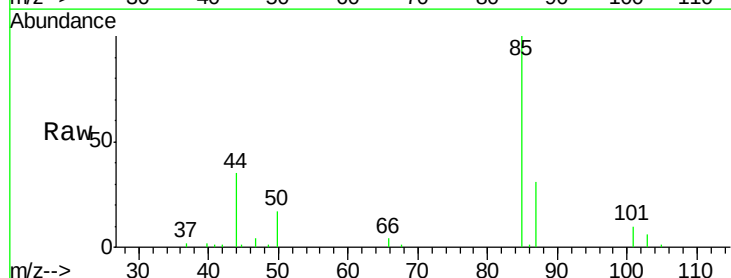
Acq: 16 May 2019 13:13

Tgt Ion: 85 Resp: 95015

Ion Ratio Lower Upper

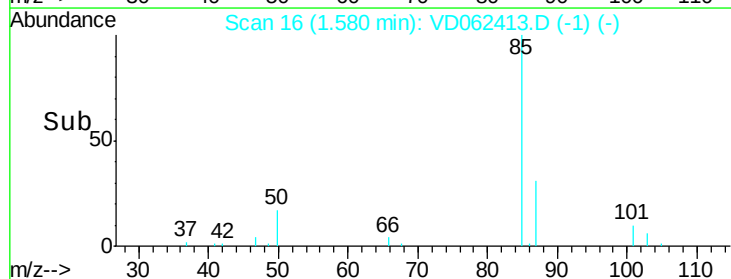
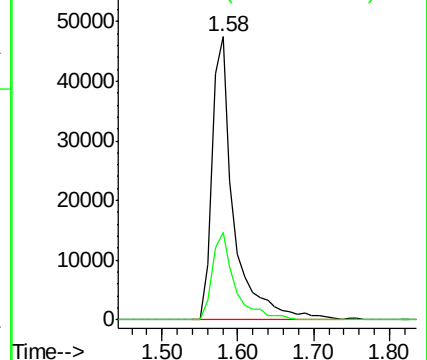
85 100

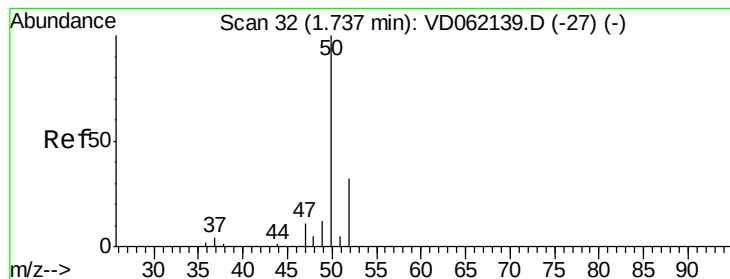
87 30.8 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 15.287 ug/l

RT: 1.76 min Scan# 34

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

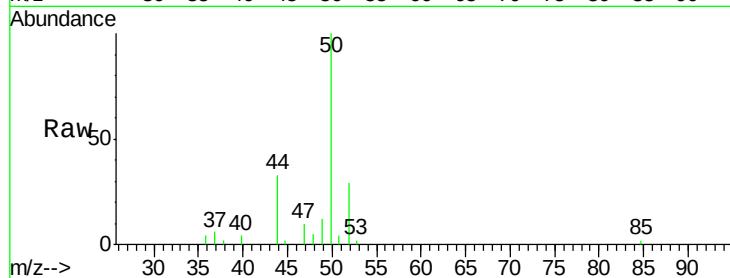
VD0516SBSD01

Tot Ion: 50 Resp: 67370

Ion Ratio Lower Upper

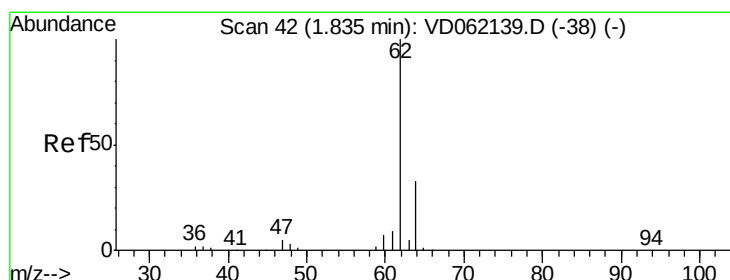
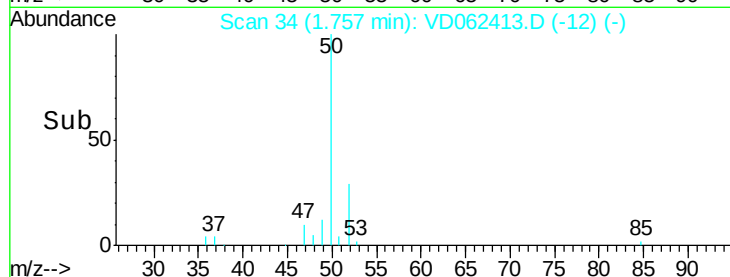
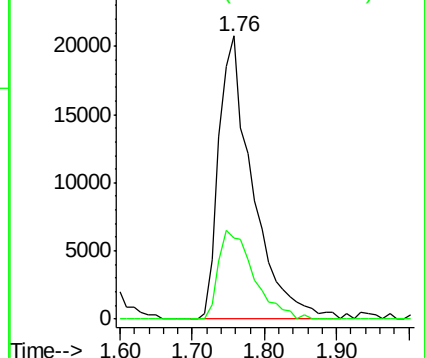
50 100

52 28.6 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: 15.930 ug/l

RT: 1.86 min Scan# 44

Delta R.T. 0.02 min

Lab File: VD062413.D

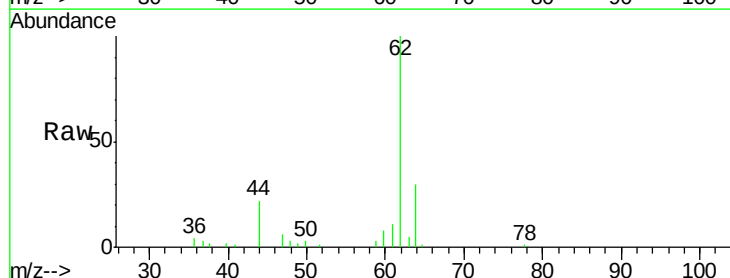
Acq: 16 May 2019 13:13

Tgt Ion: 62 Resp: 68993

Ion Ratio Lower Upper

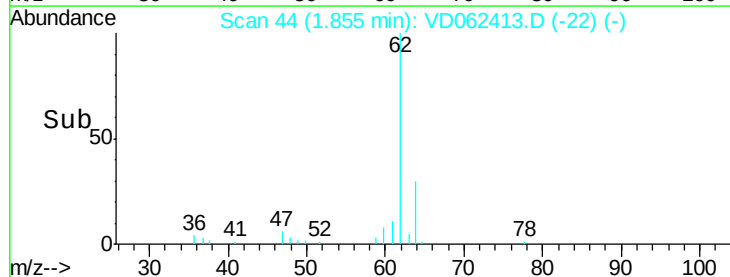
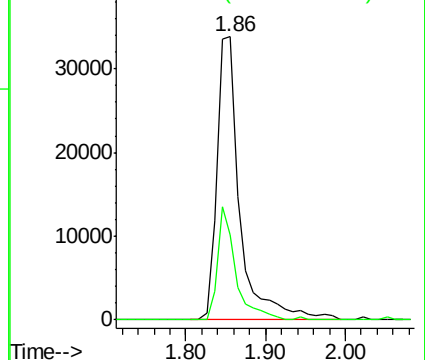
62 100

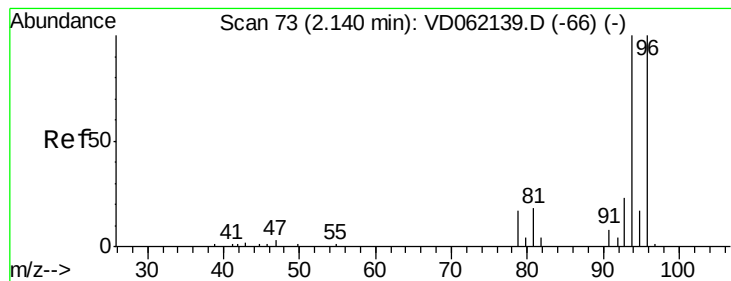
64 30.0 26.5 39.7



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 29.086 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

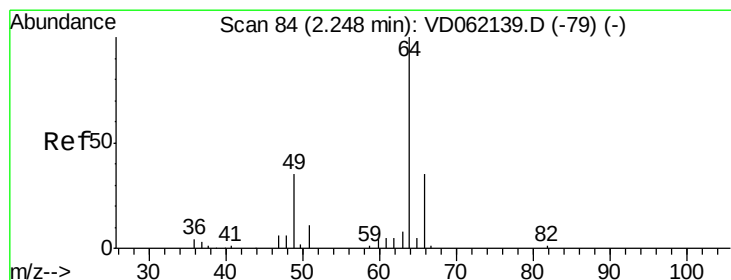
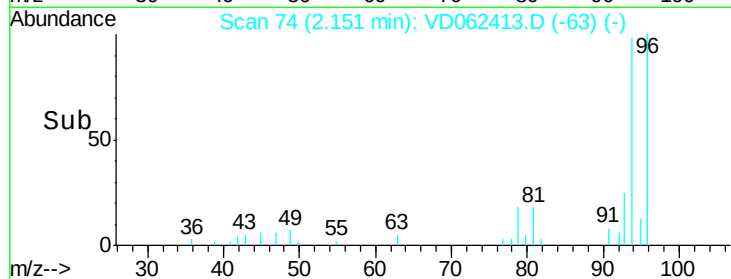
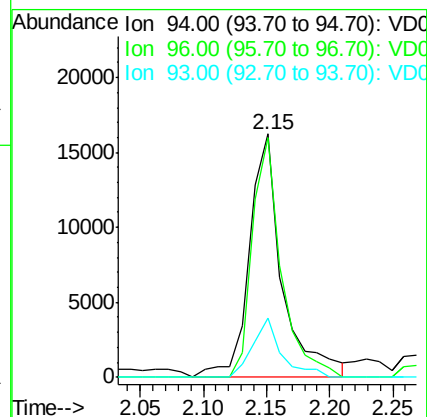
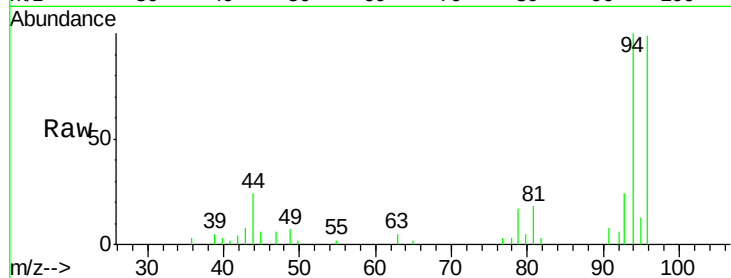
Tot Ion: 94 Resp: 29517

Ion Ratio Lower Upper

94 100

96 98.6 76.6 115.0

93 24.4 18.5 27.7



#6

Chloroethane

Concen: 19.978 ug/l

RT: 2.25 min Scan# 84

Delta R.T. 0.00 min

Lab File: VD062413.D

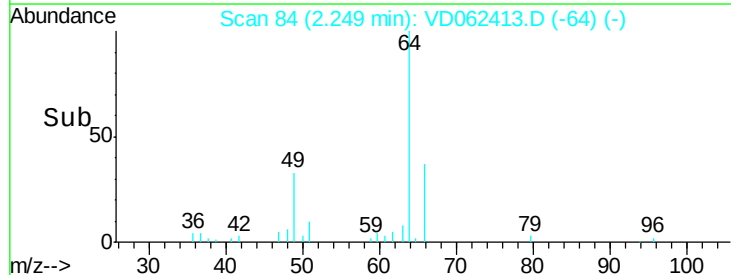
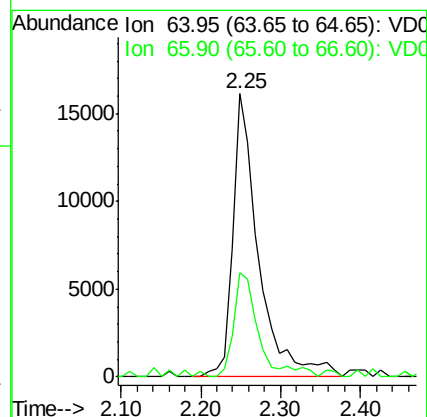
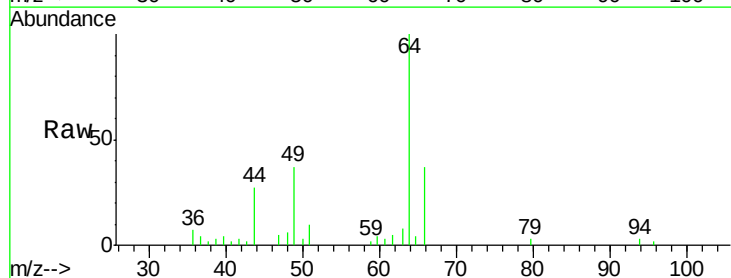
Acq: 16 May 2019 13:13

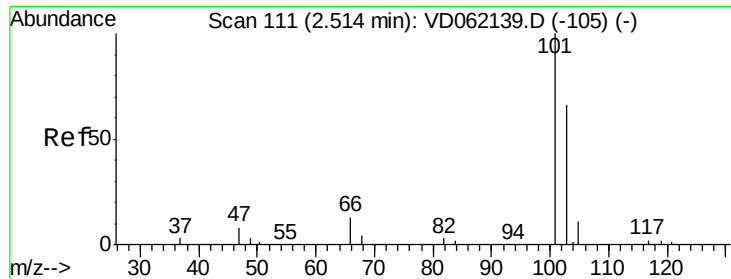
Tgt Ion: 64 Resp: 36307

Ion Ratio Lower Upper

64 100

66 36.9 25.6 38.4



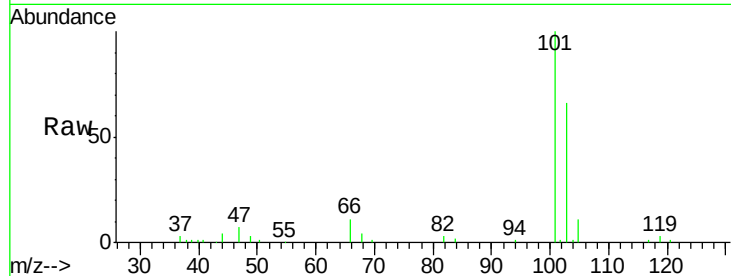


#7

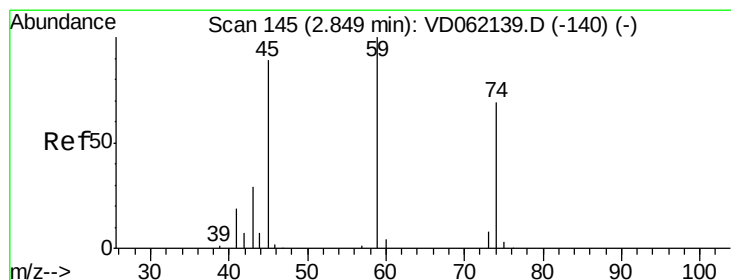
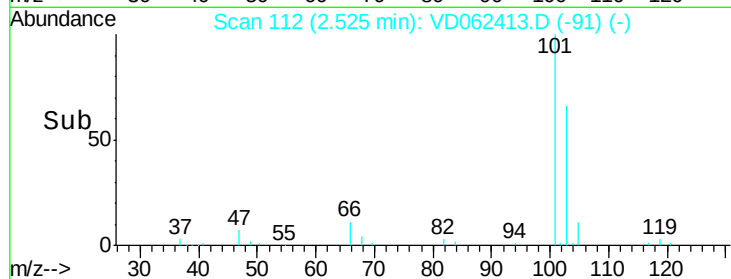
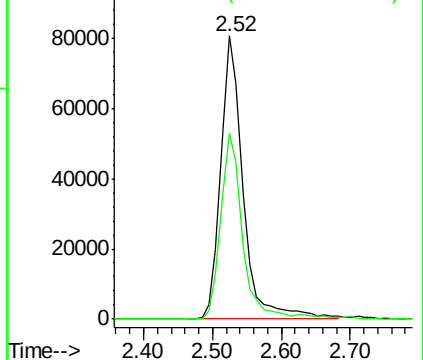
Trichlorofluoromethane
Concen: 21.630 ug/l
RT: 2.52 min Scan# 112
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

Tot Ion:101 Resp: 182127
Ion Ratio Lower Upper
101 100
103 65.6 53.6 80.4



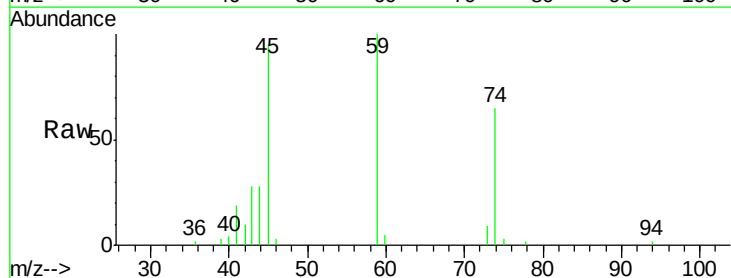
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



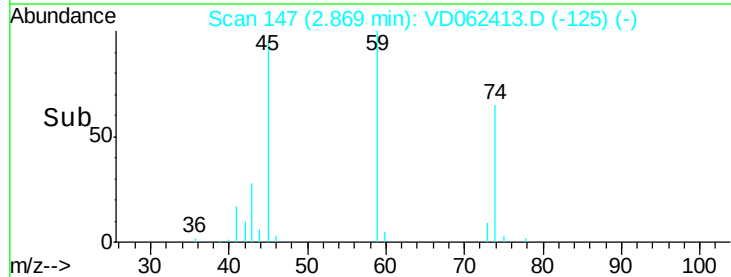
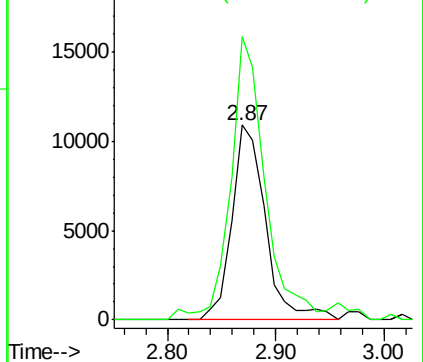
#8

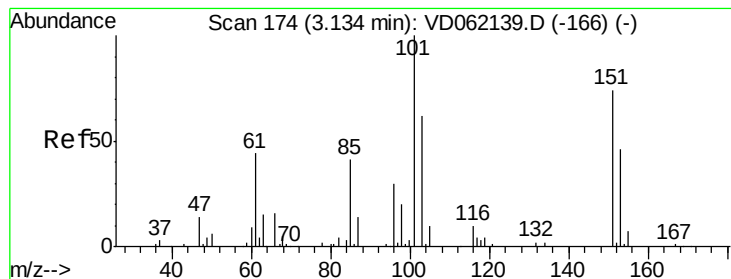
Diethyl Ether
Concen: 14.481 ug/l
RT: 2.87 min Scan# 147
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 74 Resp: 23516
Ion Ratio Lower Upper
74 100
45 145.5 56.9 170.7



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





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.119 ug/l

RT: 3.14 min Scan# 175

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBS01

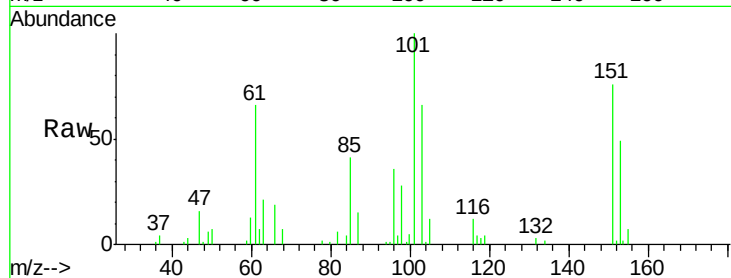
Tot Ion:101 Resp: 121782

Ion Ratio Lower Upper

101 100

85 41.2 32.4 48.6

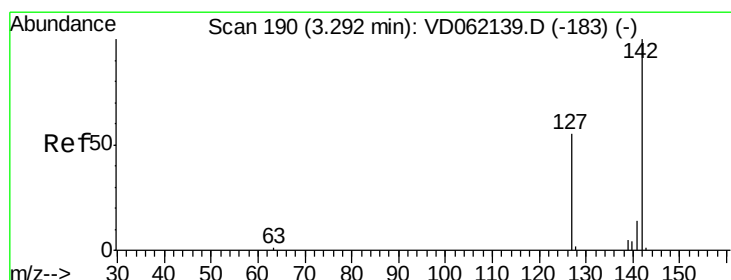
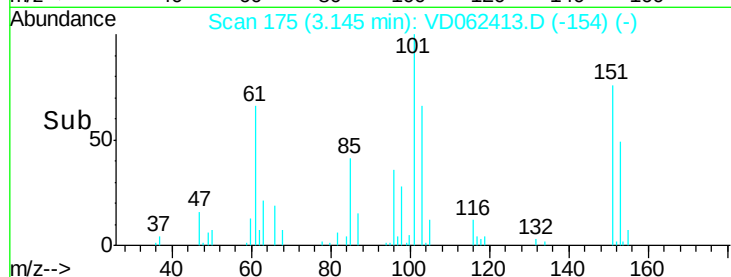
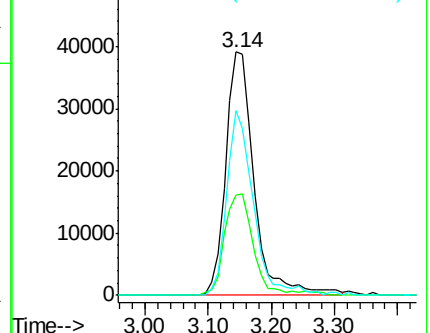
151 75.7 59.4 89.0



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: 13.316 ug/l

RT: 3.30 min Scan# 191

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

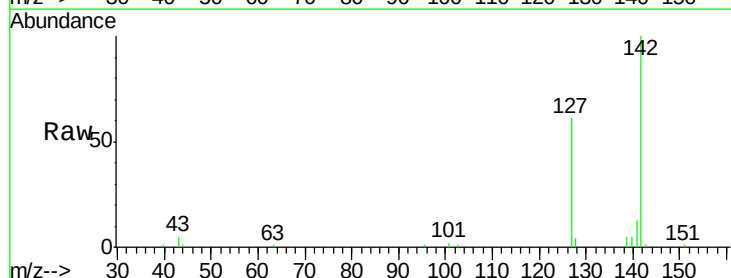
Tgt Ion:142 Resp: 128186

Ion Ratio Lower Upper

142 100

127 60.9 38.8 58.2#

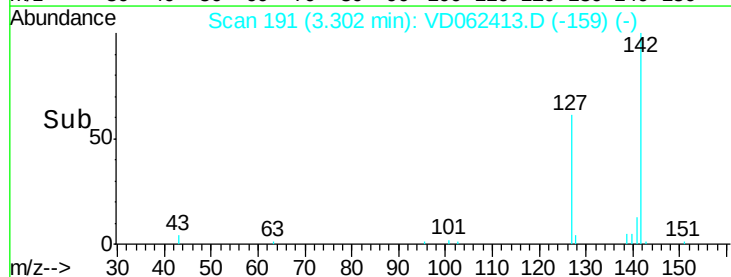
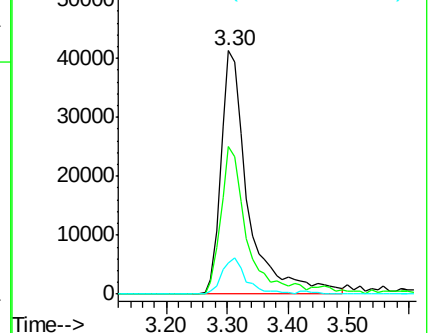
141 12.8 11.4 17.0

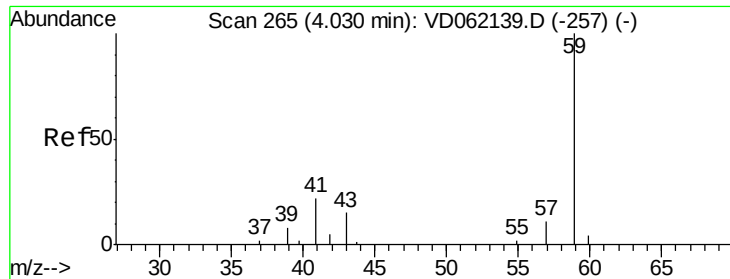


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

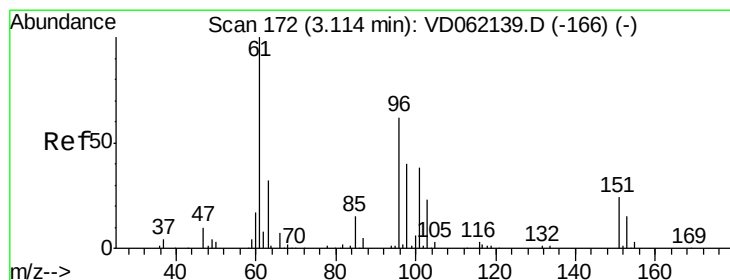
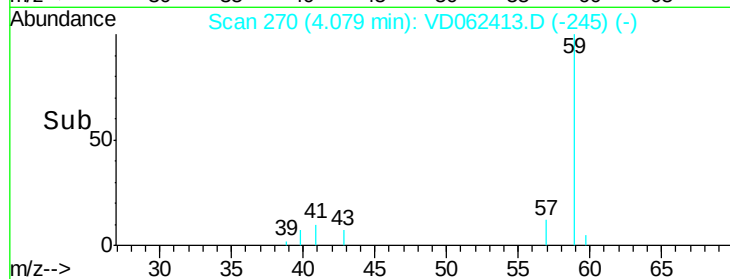
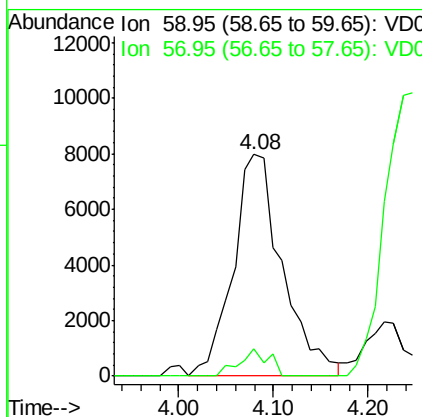
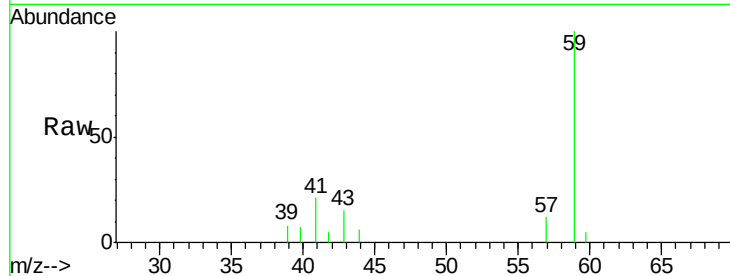




#11
Tert butyl alcohol
Concen: 94.944 ug/l
RT: 4.08 min Scan# 270
Delta R.T. 0.05 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

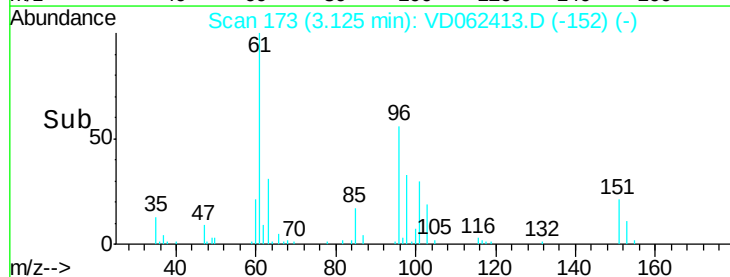
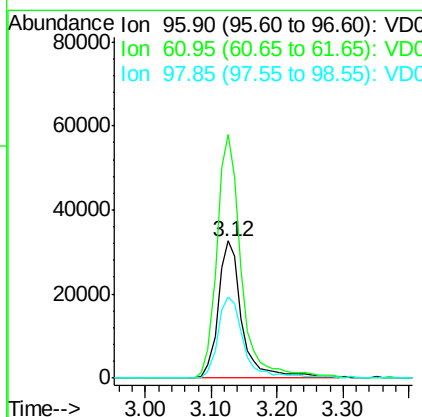
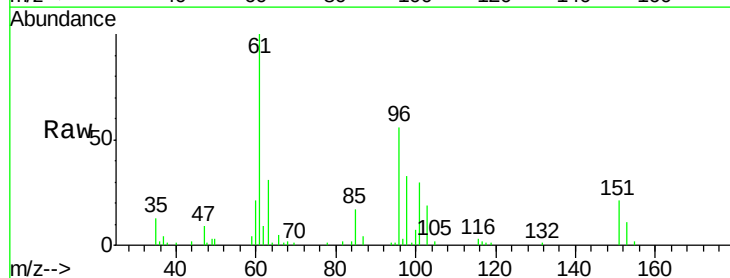
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

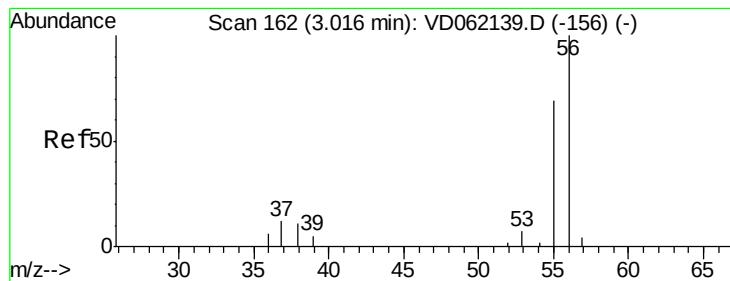
Tot Ion: 59 Resp: 28720
Ion Ratio Lower Upper
59 100
57 12.3 6.9 10.3#



#12
1,1-Dichloroethene
Concen: 16.842 ug/l
RT: 3.12 min Scan# 173
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 96 Resp: 81891
Ion Ratio Lower Upper
96 100
61 178.0 129.8 194.8
98 59.0 51.2 76.8





#13

Acrolein

Concen: 70.179 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

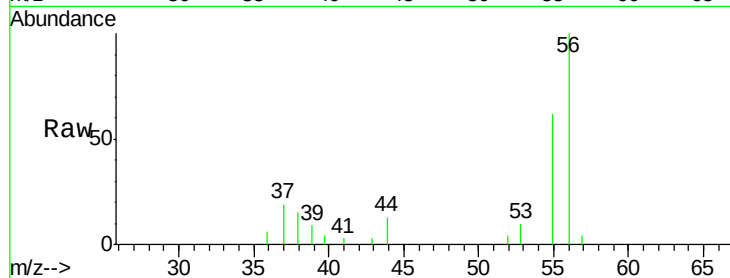
VD0516SBSD01

Tot Ion: 56 Resp: 21957

Ion Ratio Lower Upper

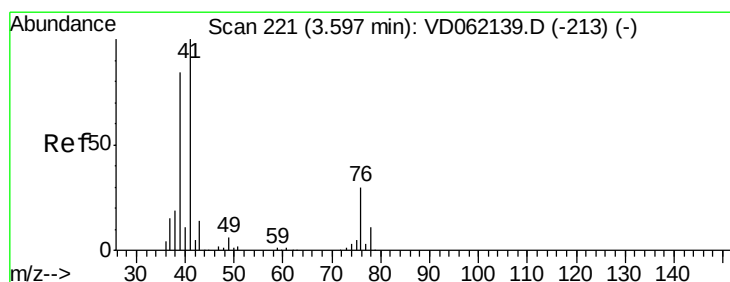
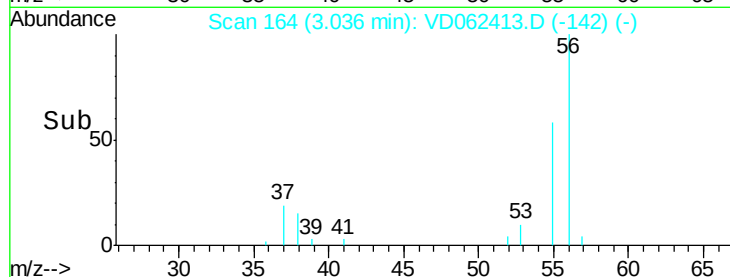
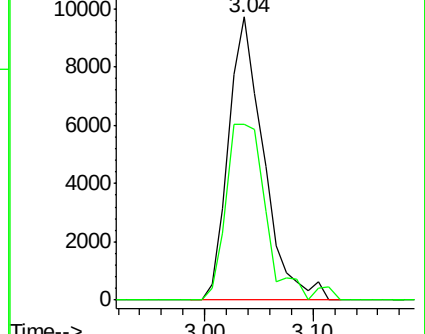
56 100

55 62.2 51.4 77.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 16.270 ug/l

RT: 3.62 min Scan# 223

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

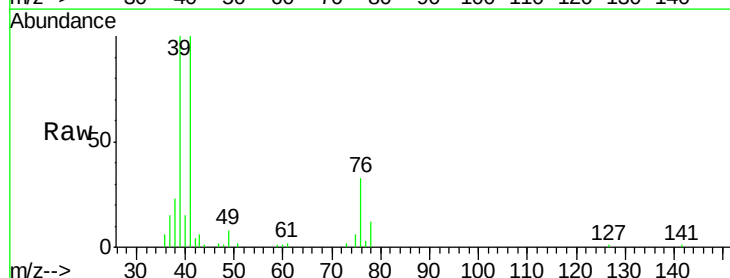
Tgt Ion: 41 Resp: 115024

Ion Ratio Lower Upper

41 100

39 99.9 60.5 90.7#

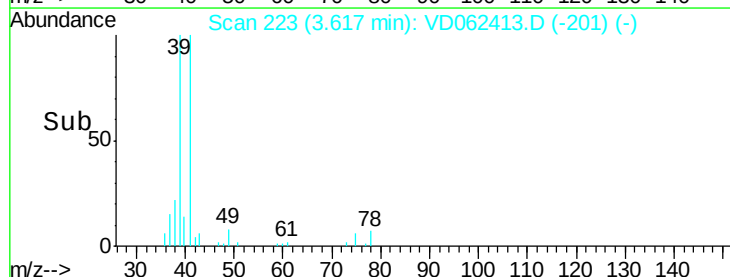
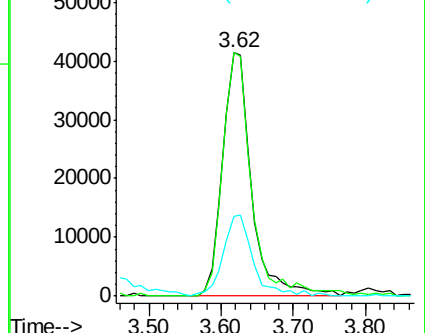
76 32.7 31.8 47.8

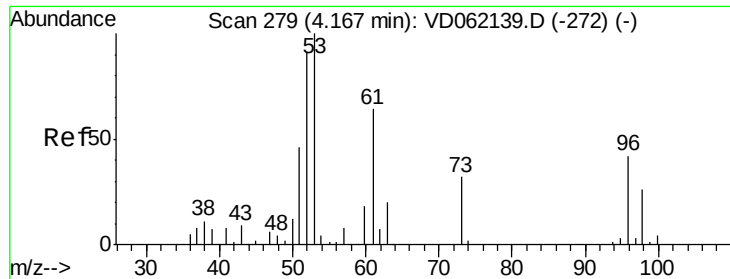


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC

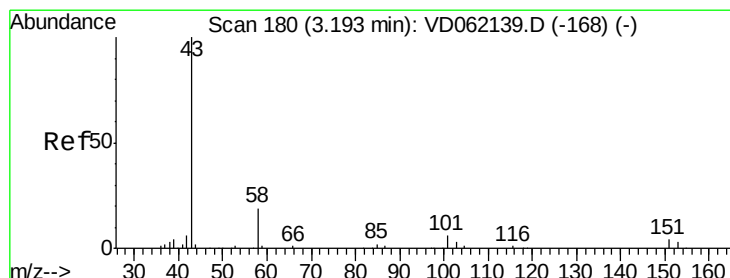
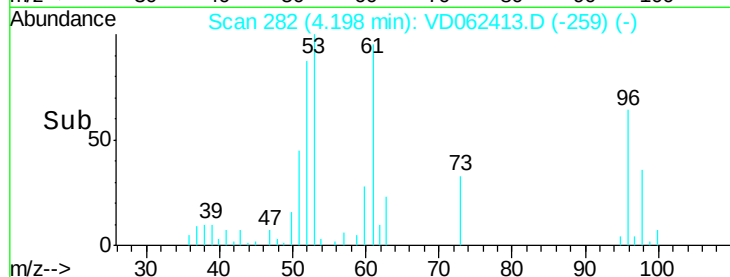
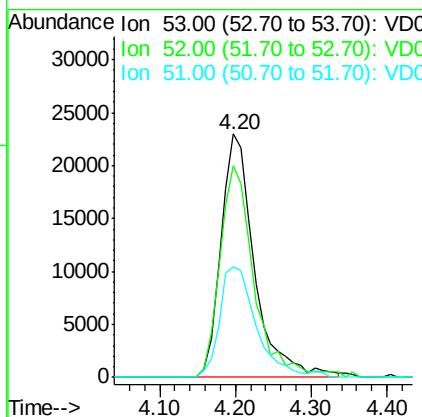
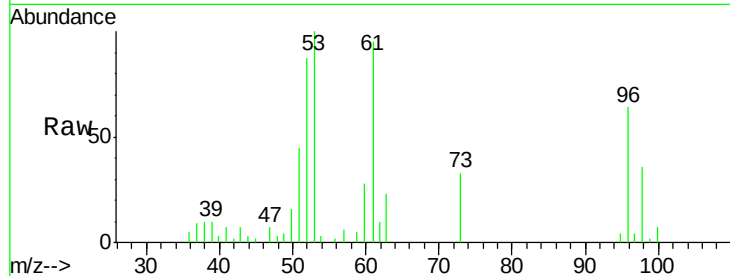




#15
 Acrylonitrile
 Concen: 88.640 ug/l
 RT: 4.20 min Scan# 282
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

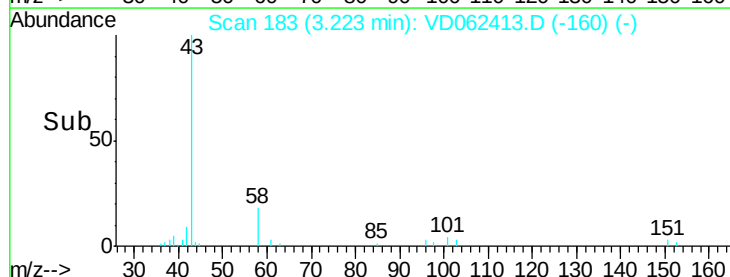
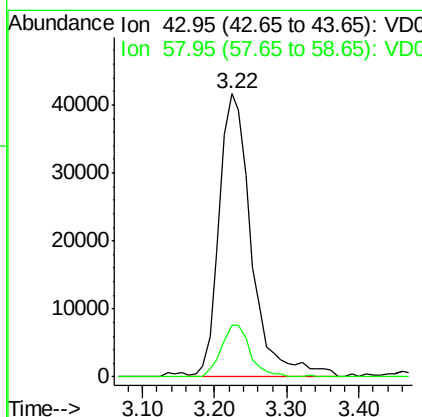
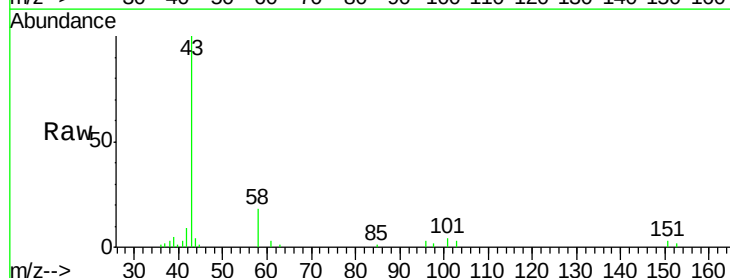
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

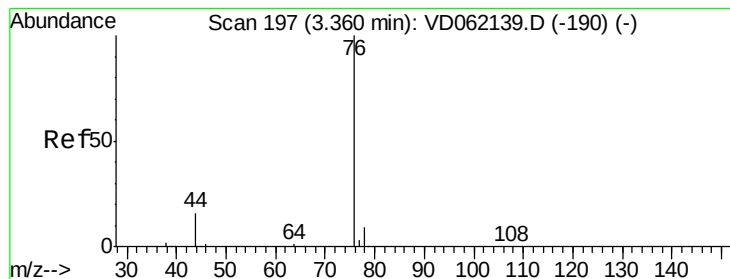
Tot Ion: 53 Resp: 70477
 Ion Ratio Lower Upper
 53 100
 52 86.7 65.0 97.4
 51 45.4 32.6 48.8



#16
 Acetone
 Concen: 104.126 ug/l
 RT: 3.22 min Scan# 183
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion: 43 Resp: 129404
 Ion Ratio Lower Upper
 43 100
 58 18.2 19.9 29.9#





#17

Carbon Disulfide

Concen: 13.104 ug/l

RT: 3.37 min Scan# 198

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

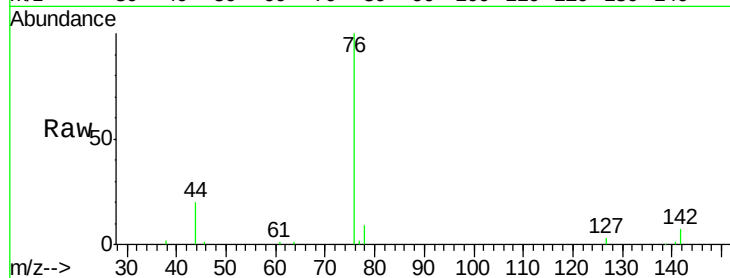
VD0516SBSD01

Tot Ion: 76 Resp: 183283

Ion Ratio Lower Upper

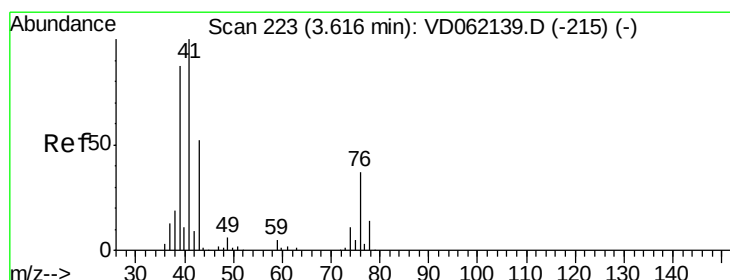
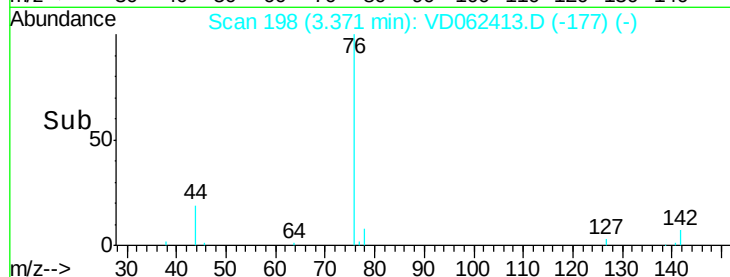
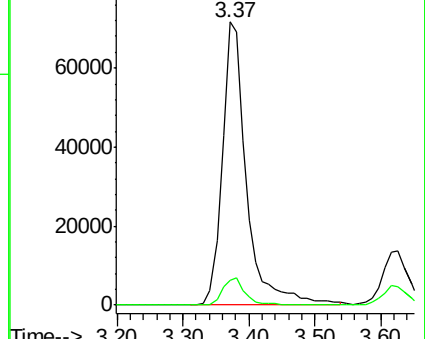
76 100

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



#18

Methyl Acetate

Concen: 16.742 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.03 min

Lab File: VD062413.D

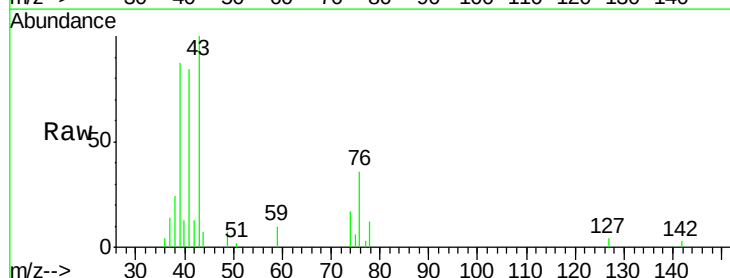
Acq: 16 May 2019 13:13

Tgt Ion: 43 Resp: 37660

Ion Ratio Lower Upper

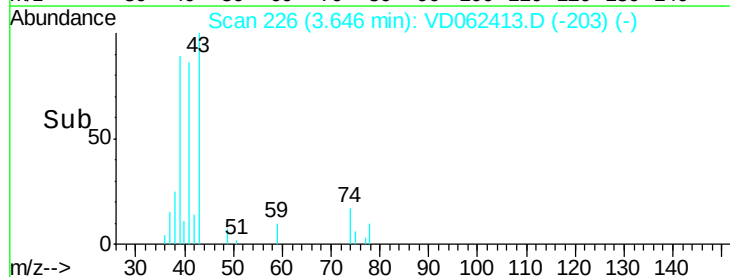
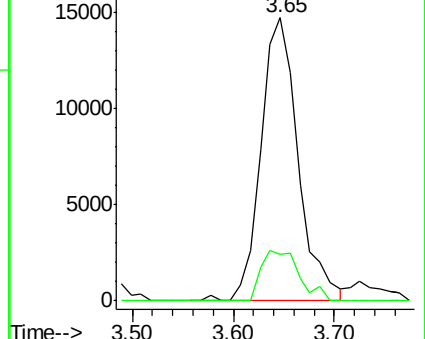
43 100

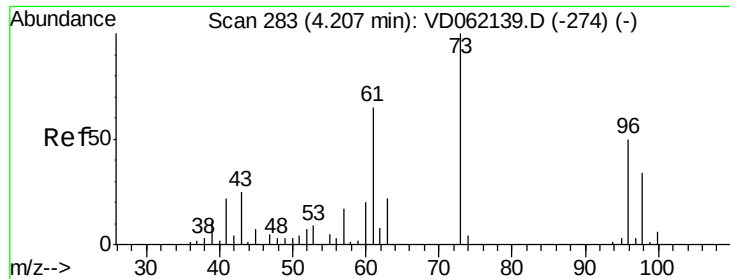
74 16.6 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

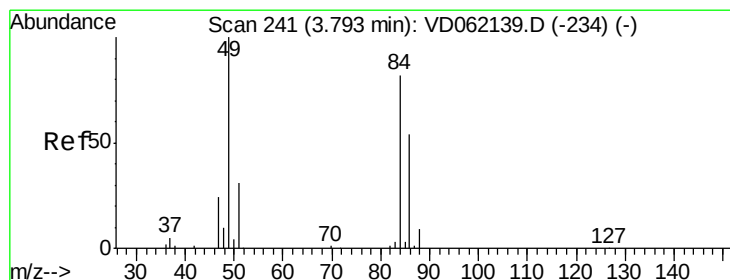
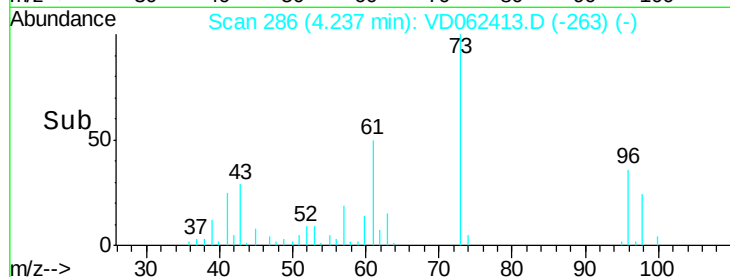
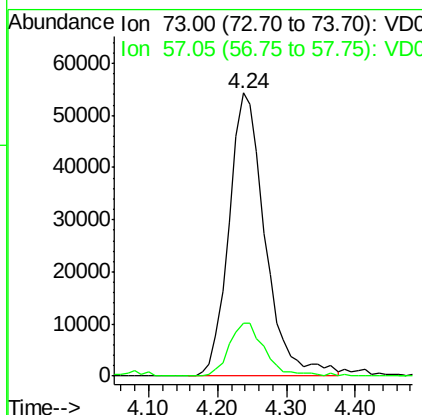
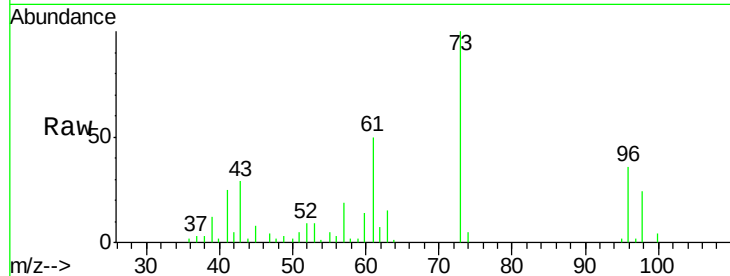




#19
Methyl tert-butyl Ether
Concen: 18.902 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.03 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

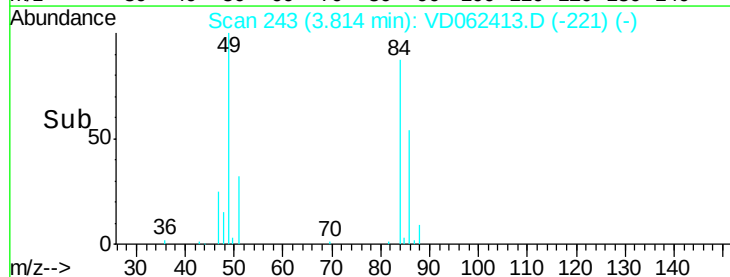
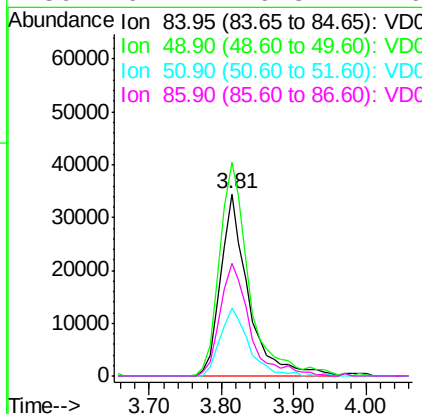
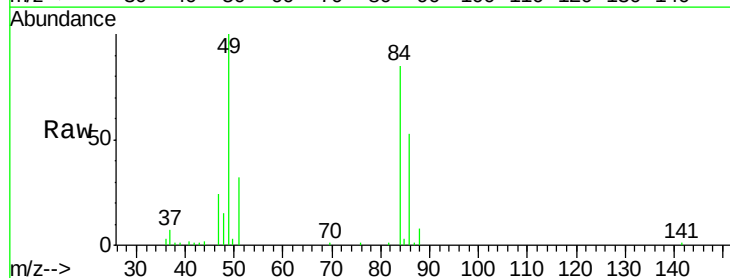
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBS01

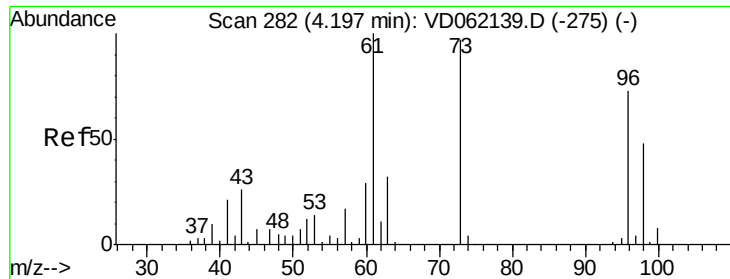
Tot Ion: 73 Resp: 196992
Ion Ratio Lower Upper
73 100
57 18.6 16.3 24.5



#20
Methylene Chloride
Concen: 17.613 ug/l
RT: 3.81 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 84 Resp: 91395
Ion Ratio Lower Upper
84 100
49 117.2 94.0 141.0
51 37.1 29.0 43.4
86 62.1 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 16.413 ug/l

RT: 4.22 min Scan# 284

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

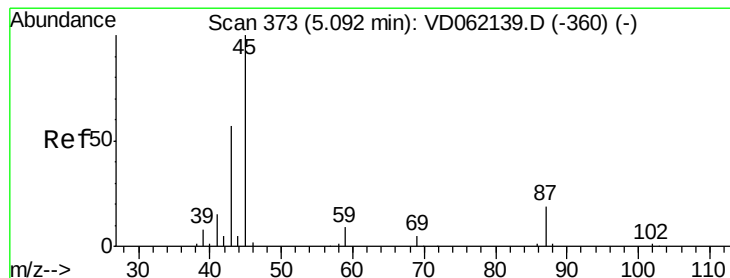
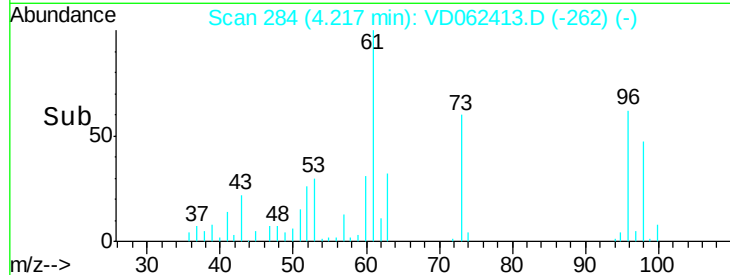
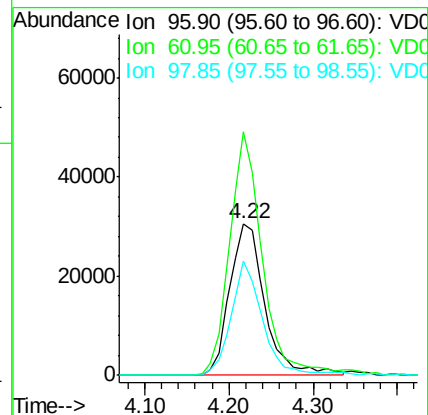
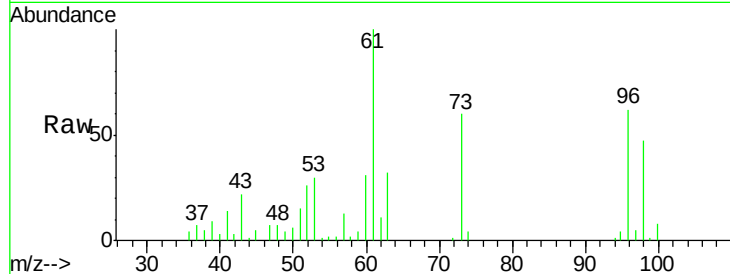
Tot Ion: 96 Resp: 88805

Ion Ratio Lower Upper

96 100

61 160.8 104.4 156.6#

98 75.5 51.8 77.8



#22

Diisopropyl ether

Concen: 19.187 ug/l

RT: 5.12 min Scan# 376

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Tgt Ion: 45 Resp: 288651

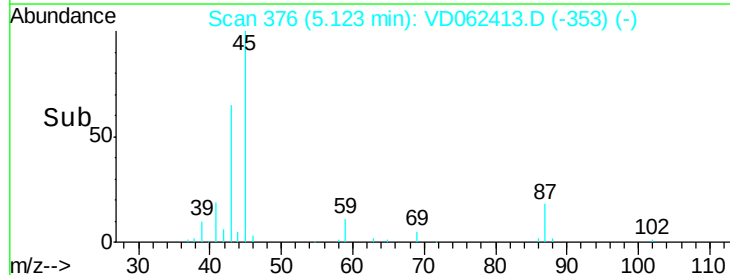
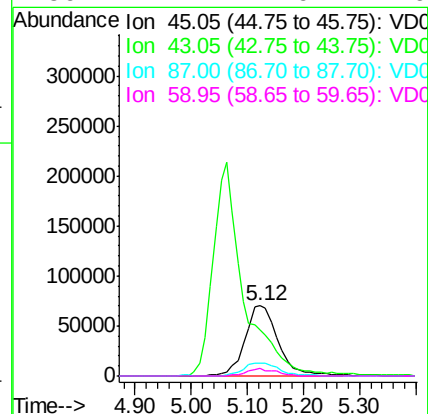
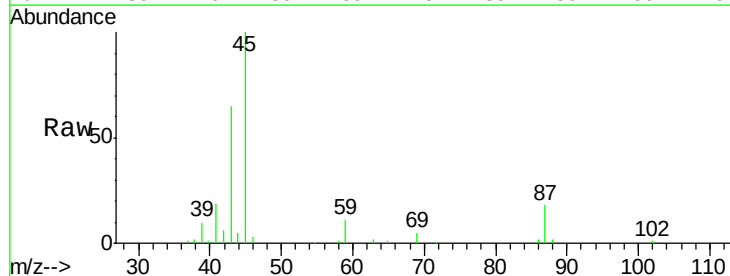
Ion Ratio Lower Upper

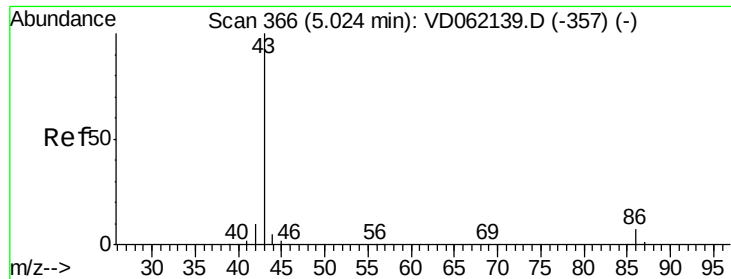
45 100

43 65.2 46.2 69.2

87 17.7 15.9 23.9

59 11.2 7.9 11.9





#23

Vinyl Acetate

Concen: 101.231 ug/l

RT: 5.06 min Scan# 370

Delta R.T. 0.04 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

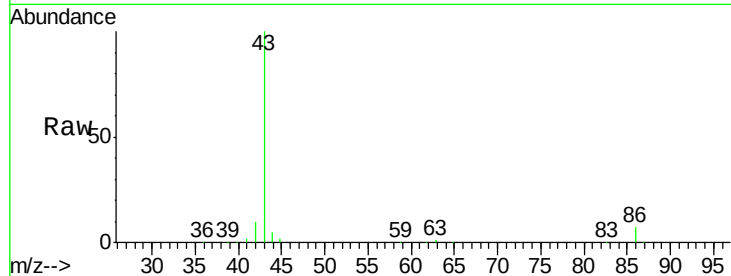
VD0516SBS01

Tot Ion: 43 Resp: 803517

Ion Ratio Lower Upper

43 100

86 7.3 6.4 9.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.06

200000

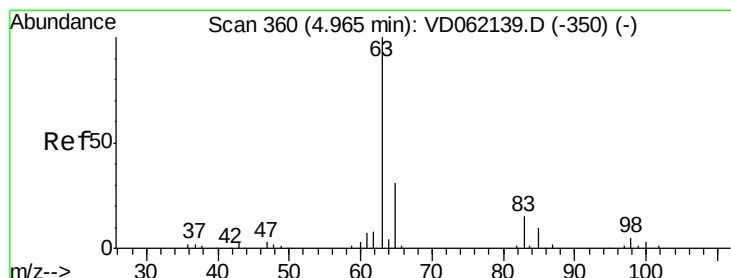
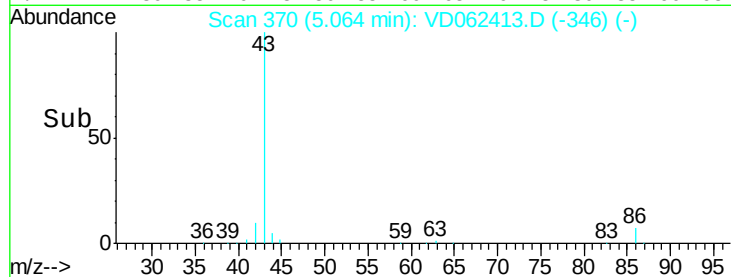
150000

100000

50000

0

Time--> 4.90 5.00 5.10 5.20



#24

1,1-Dichloroethane

Concen: 18.141 ug/l

RT: 4.98 min Scan# 362

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

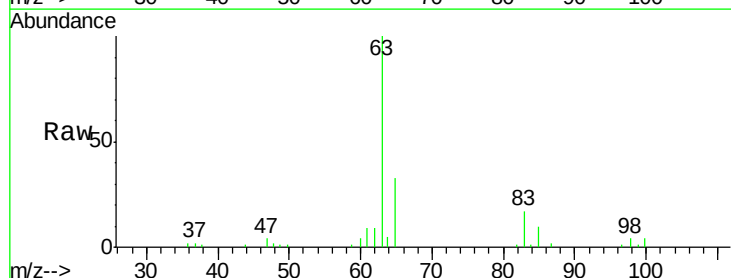
Tgt Ion: 63 Resp: 164641

Ion Ratio Lower Upper

63 100

98 4.4 2.8 8.4

100 3.5 1.8 5.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

4.98

60000

50000

40000

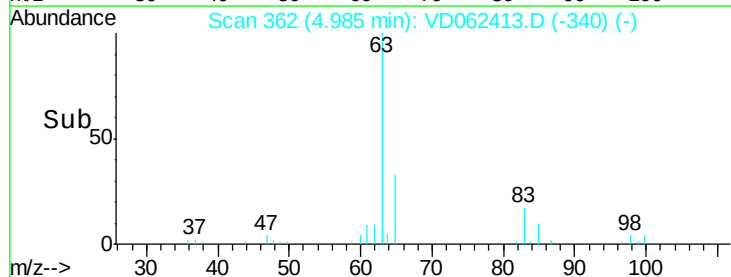
30000

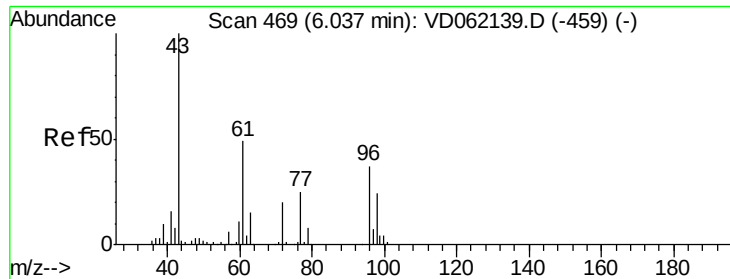
20000

10000

0

Time--> 4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 96.201 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.04 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

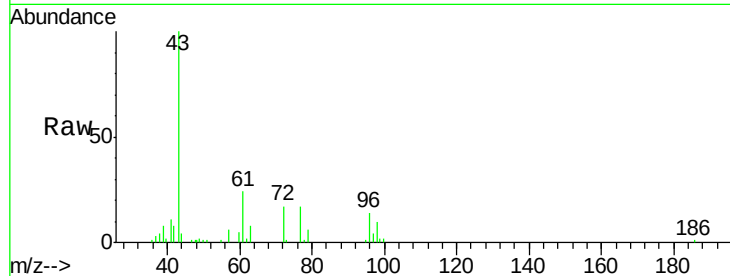
VD0516SBSD01

Tot Ion: 43 Resp: 130406

Ion Ratio Lower Upper

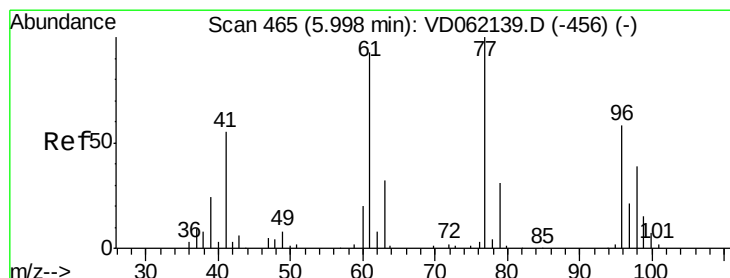
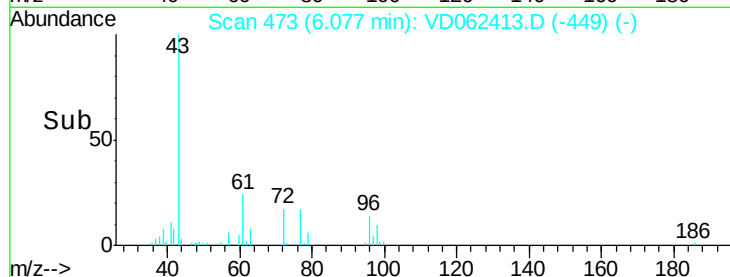
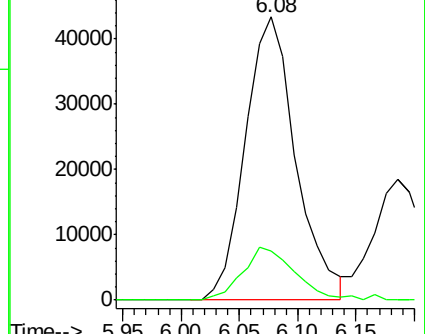
43 100

72 17.2 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: 21.094 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.03 min

Lab File: VD062413.D

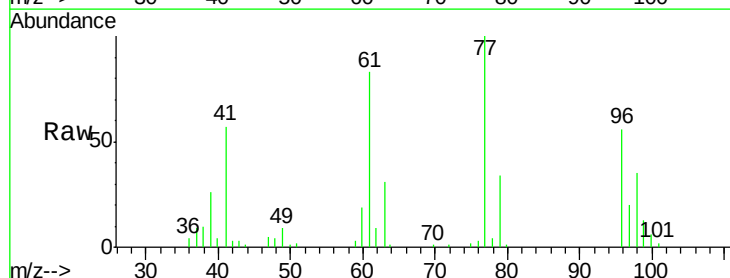
Acq: 16 May 2019 13:13

Tgt Ion: 77 Resp: 190695

Ion Ratio Lower Upper

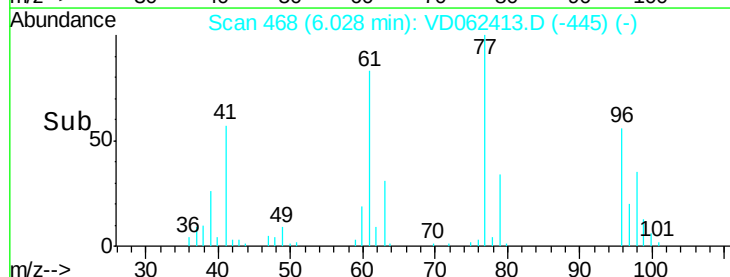
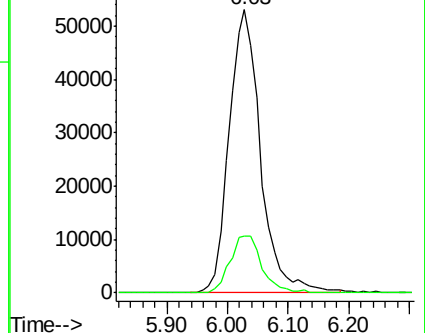
77 100

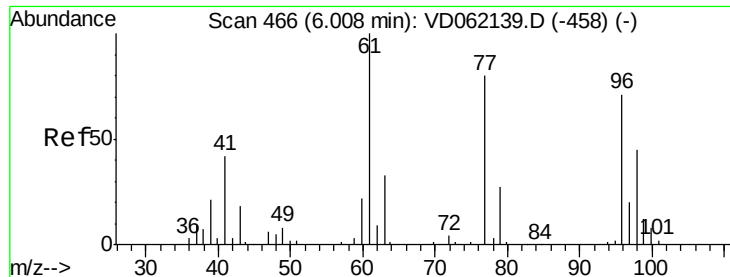
97 20.3 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



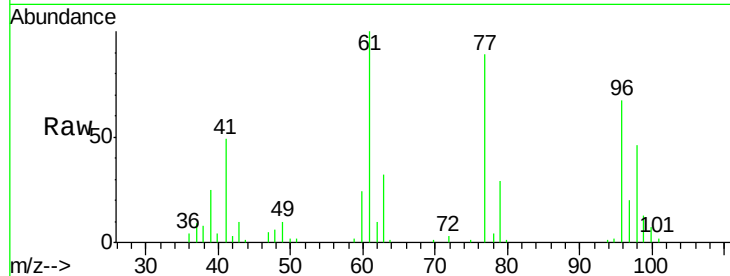


#27

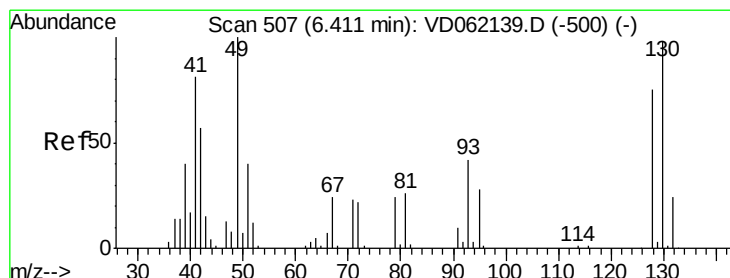
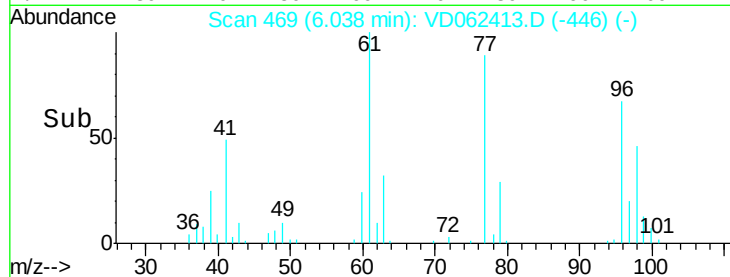
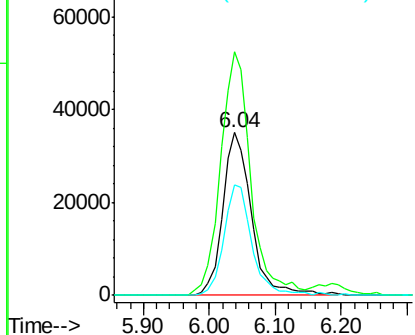
cis-1,2-Dichloroethene
 Concen: 17.635 ug/l
 RT: 6.04 min Scan# 469
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBS01

Tot Ion	96	Resp	106803
Ion	Ratio	Lower	Upper
96	100		
61	149.7	0.0	279.8
98	68.2	0.0	136.0



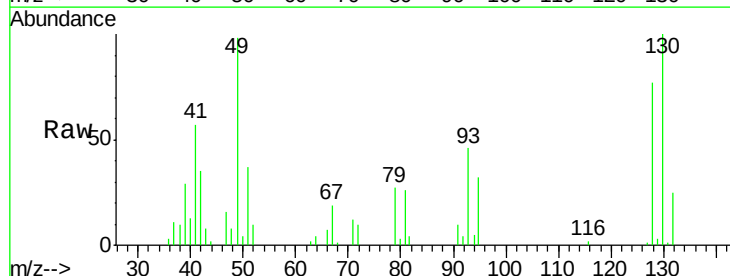
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 97.85 (97.55 to 98.55): VDC



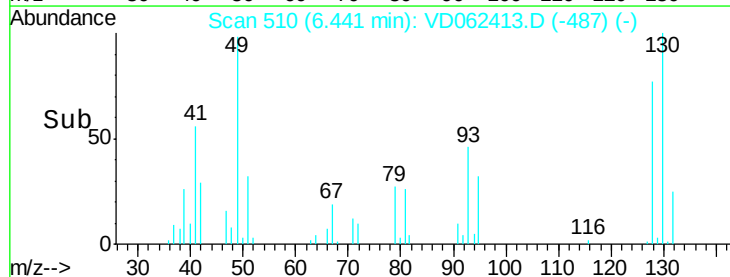
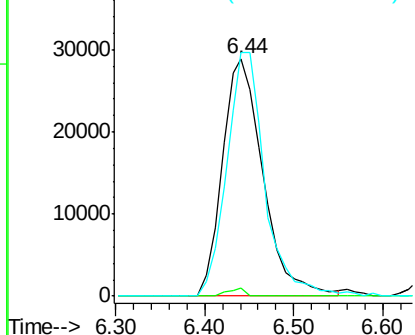
#28

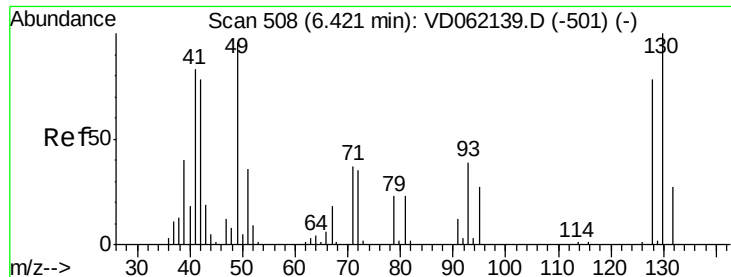
Bromochloromethane
 Concen: 25.732 ug/l
 RT: 6.44 min Scan# 510
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion	49	Resp	91881
Ion	Ratio	Lower	Upper
49	100		
129	3.3	0.0	6.6
130	102.4	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

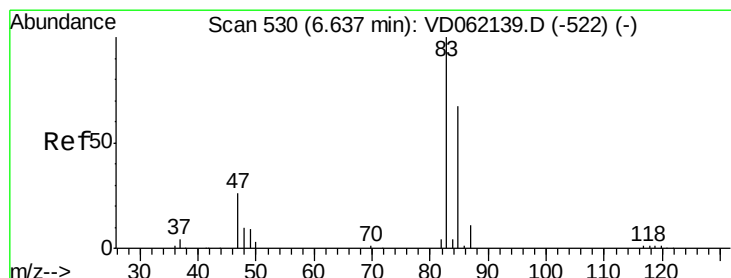
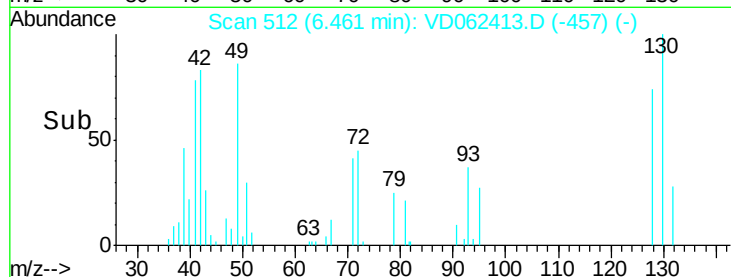
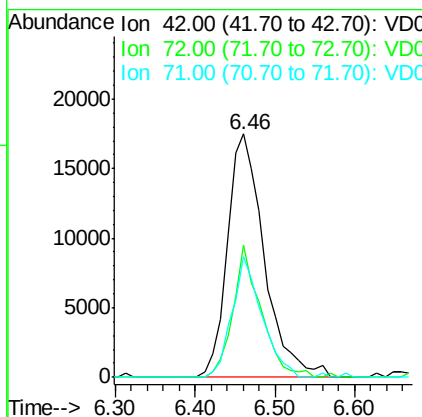
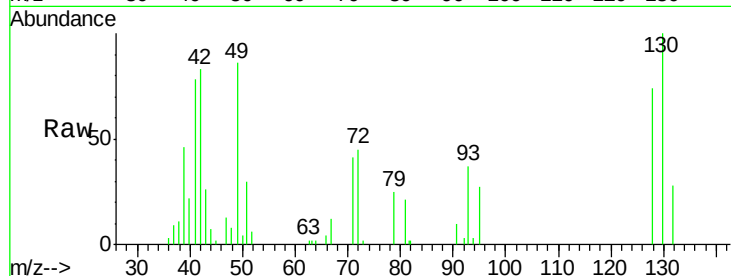




#29
Tetrahydrofuran
Concen: 89.935 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.04 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

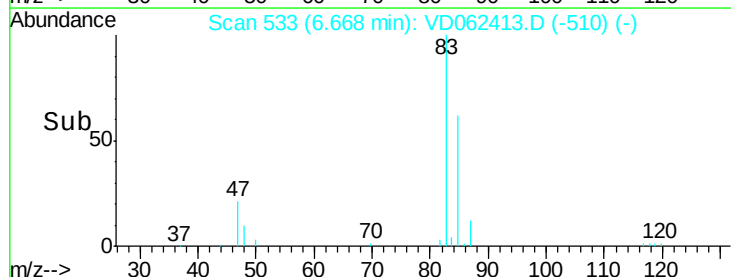
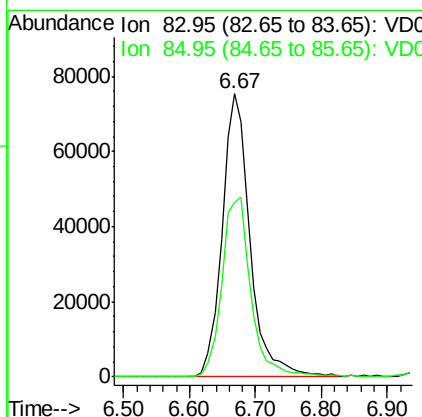
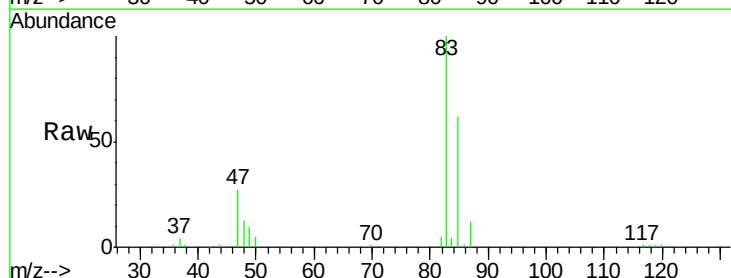
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

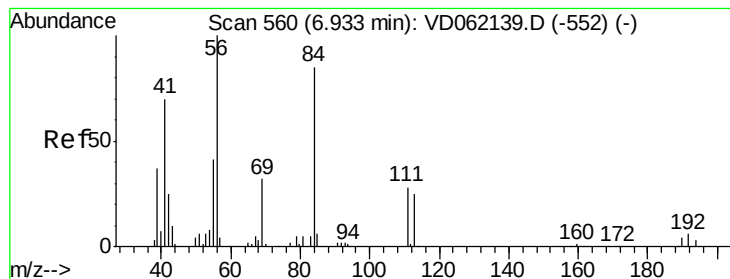
Tot Ion: 42 Resp: 56172
Ion Ratio Lower Upper
42 100
72 41.6 37.8 56.6
71 40.3 36.7 55.1



#30
Chloroform
Concen: 20.313 ug/l
RT: 6.67 min Scan# 533
Delta R.T. 0.03 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 83 Resp: 222173
Ion Ratio Lower Upper
83 100
85 61.7 51.7 77.5





#31

Cyclohexane

Concen: 15.302 ug/l

RT: 6.96 min Scan# 563

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBS01

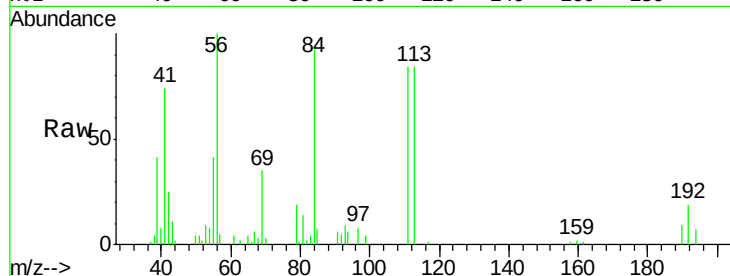
Tot Ion: 56 Resp: 95144

Ion Ratio Lower Upper

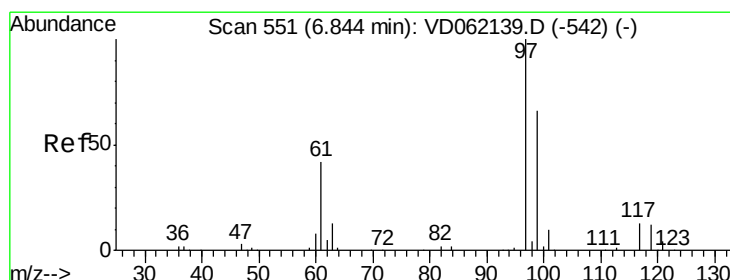
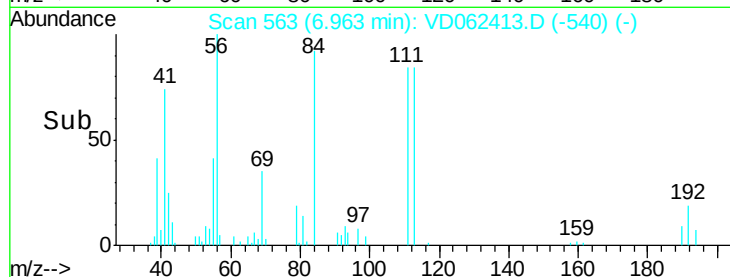
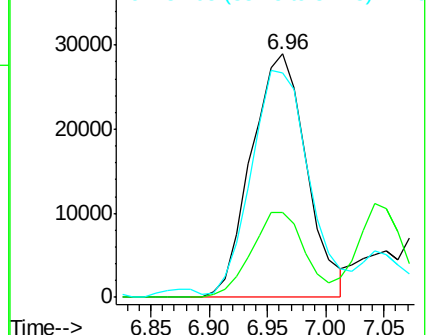
56 100

69 35.1 25.8 38.6

84 92.2 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: 20.343 ug/l

RT: 6.87 min Scan# 554

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

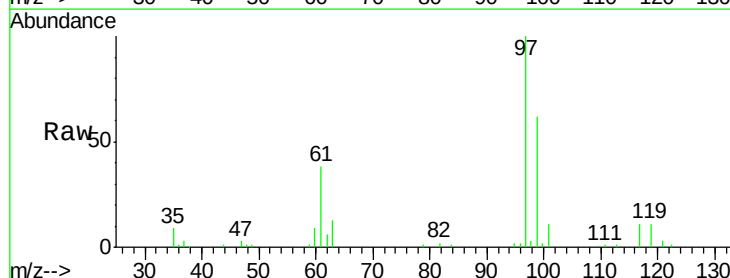
Tgt Ion: 97 Resp: 210311

Ion Ratio Lower Upper

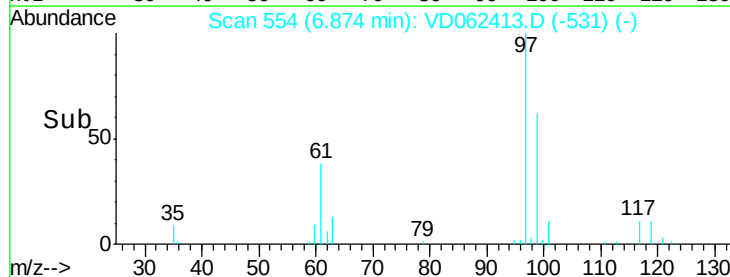
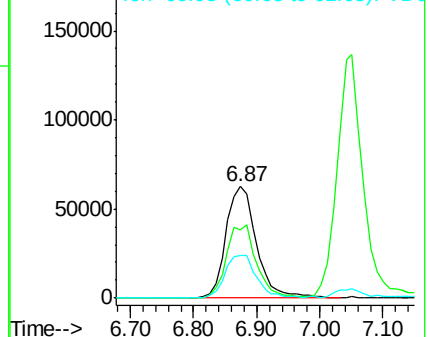
97 100

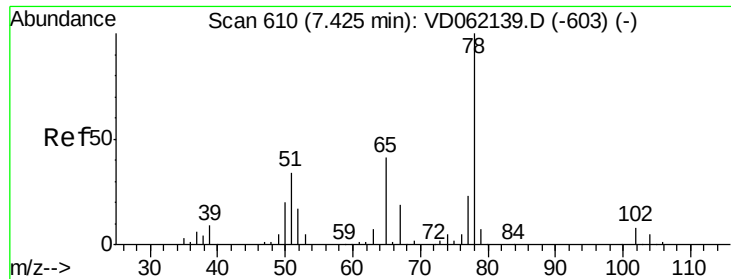
99 61.6 52.2 78.2

61 38.4 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

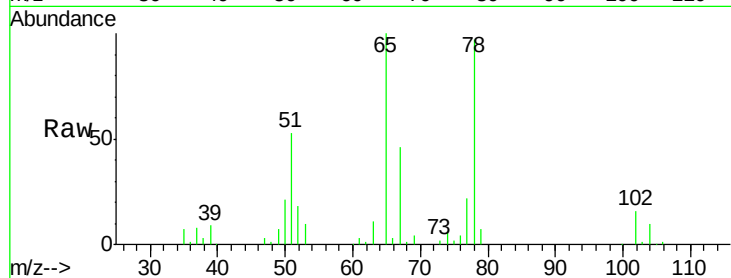




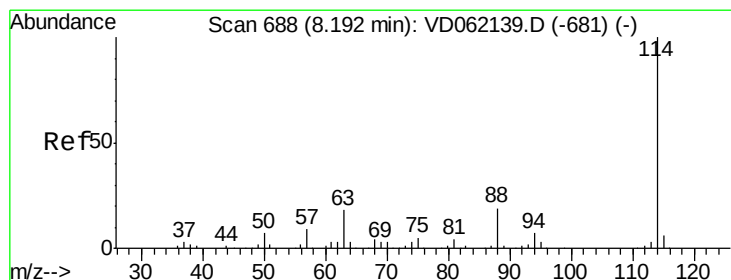
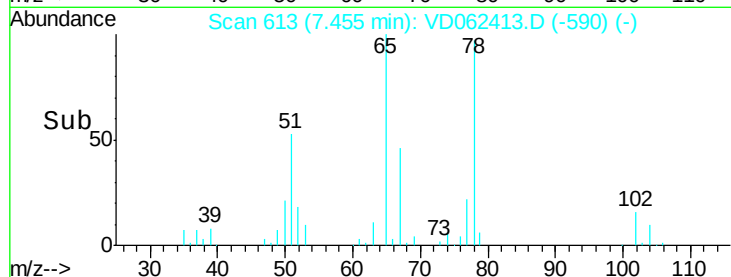
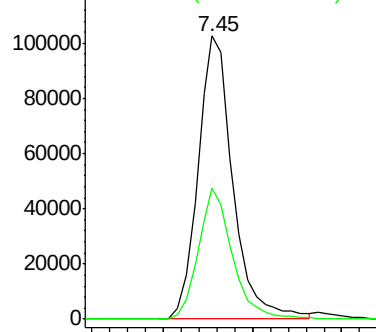
#33
 1,2-Dichloroethane-d4
 Concen: 47.153 ug/l
 RT: 7.45 min Scan# 613
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

Tot Ion: 65 Resp: 279435
 Ion Ratio Lower Upper
 65 100
 67 46.2 0.0 98.0

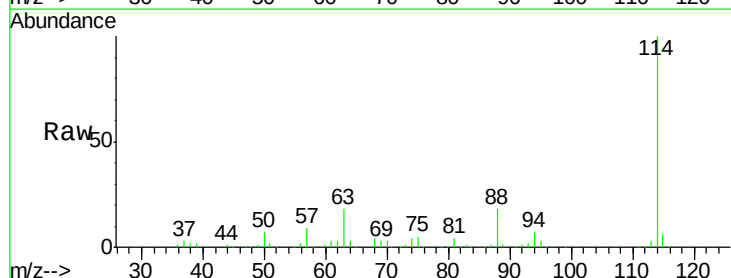


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC

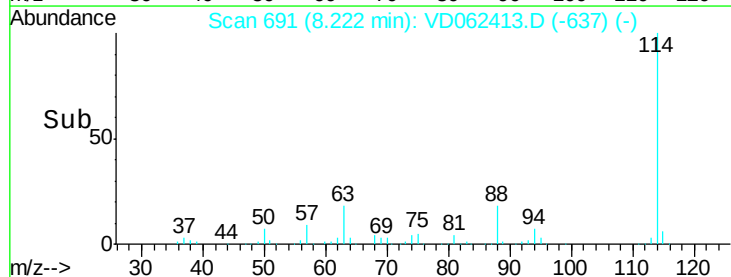
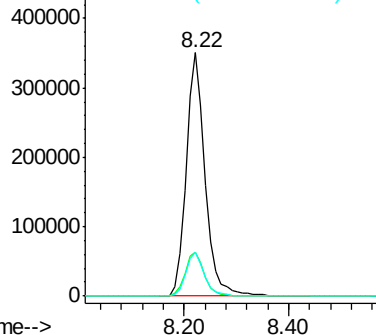


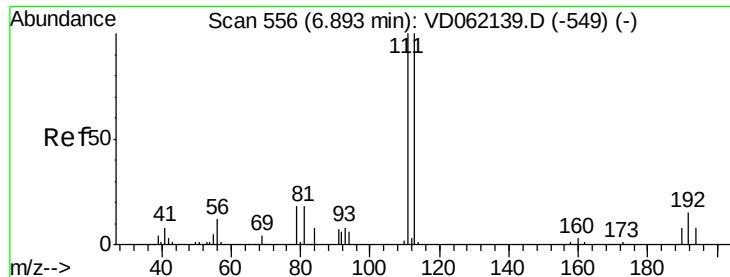
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 691
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion: 114 Resp: 876943
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 32.4
 88 18.0 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): VDC
 Ion 62.95 (62.65 to 63.65): VDC
 Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 46.006 ug/l

RT: 6.92 min Scan# 559

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

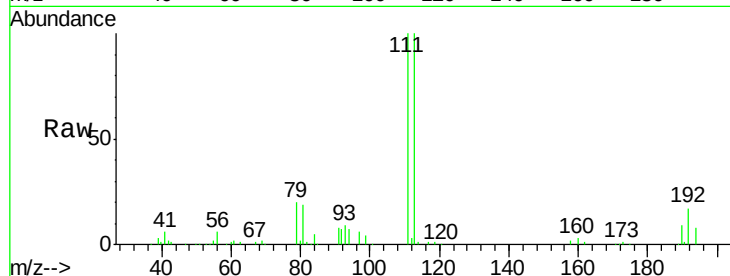
Tot Ion:113 Resp: 334744

Ion Ratio Lower Upper

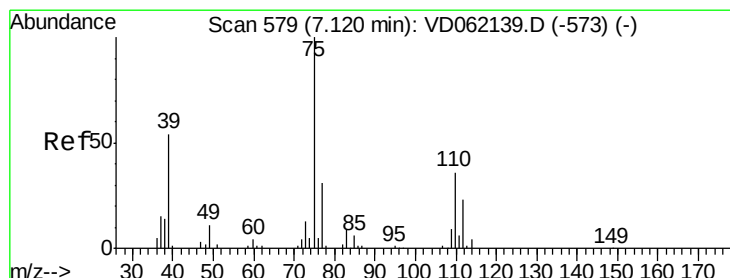
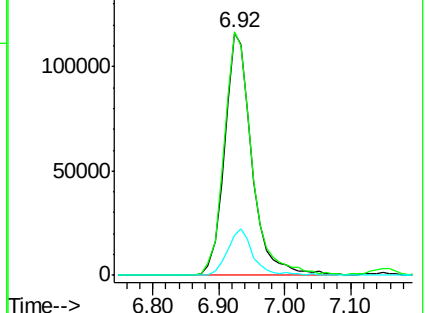
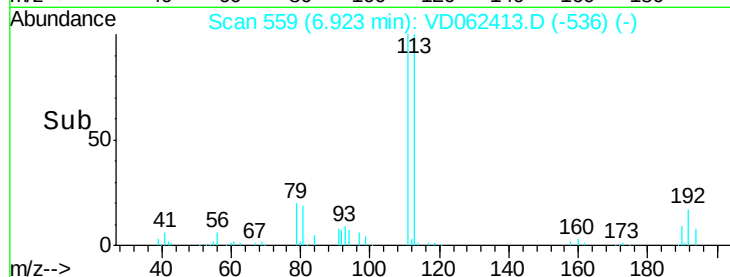
113 100

111 100.4 78.5 117.7

192 16.7 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: 18.197 ug/l

RT: 7.15 min Scan# 582

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

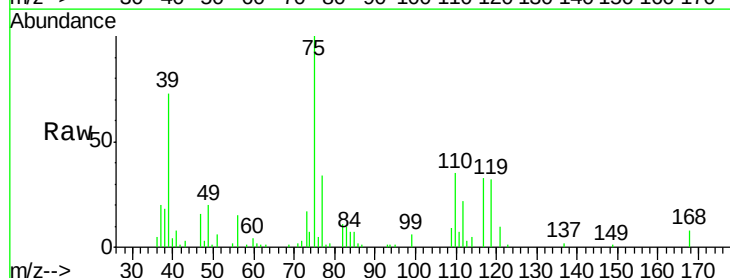
Tgt Ion: 75 Resp: 130837

Ion Ratio Lower Upper

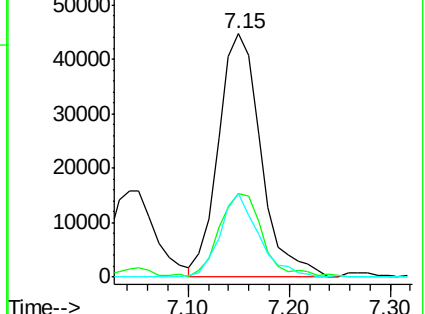
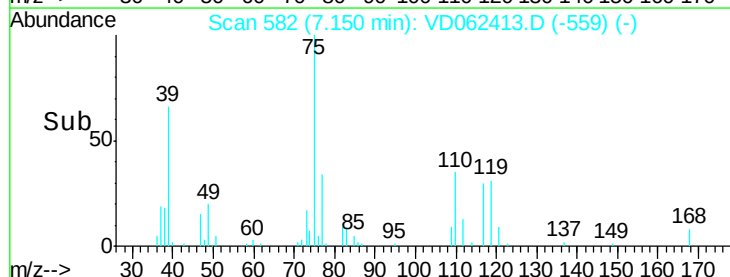
75 100

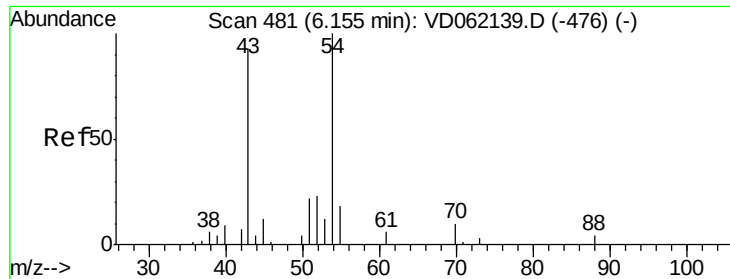
110 34.6 19.1 57.1

77 34.4 25.6 38.4



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

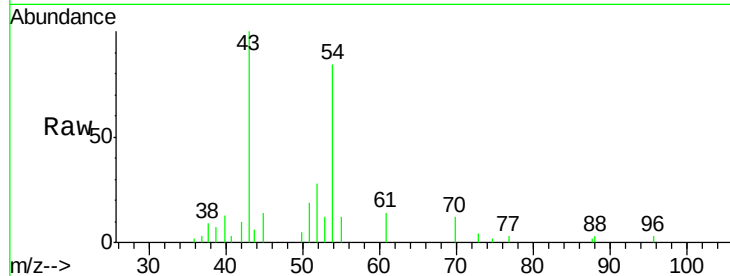




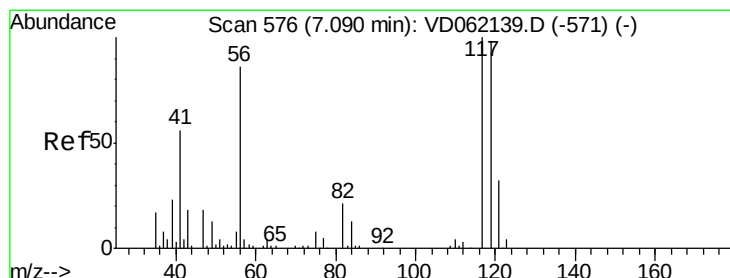
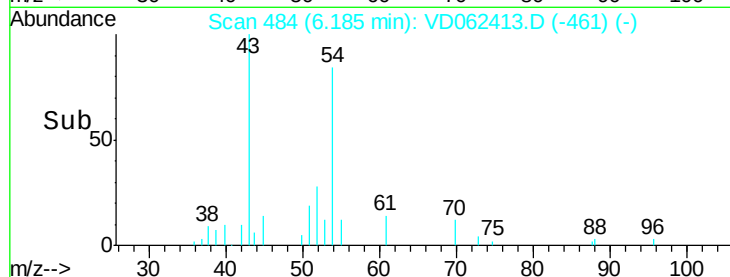
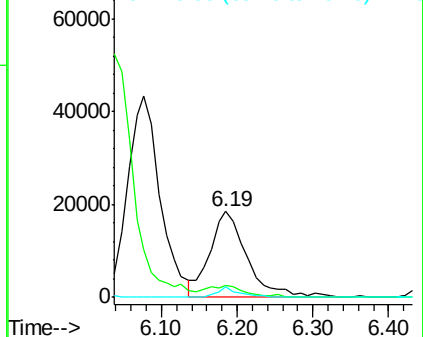
#37
Ethyl Acetate
Concen: 20.870 ug/l
RT: 6.19 min Scan# 484
Delta R.T. 0.03 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBS01

Tot Ion: 43 Resp: 63638
Ion Ratio Lower Upper
43 100
61 14.1 14.7 22.1#
70 11.9 7.8 11.6#

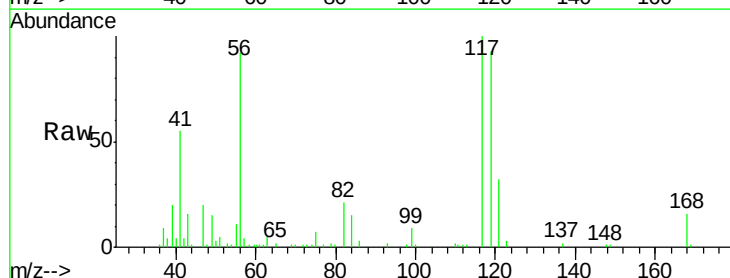


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

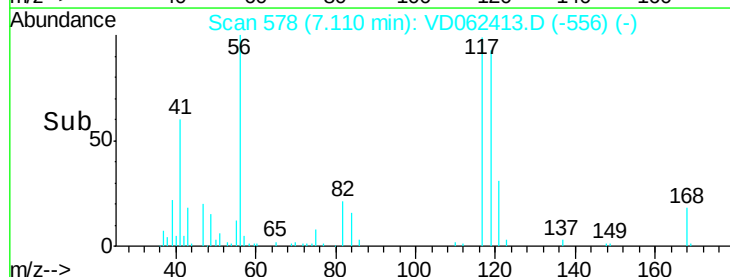
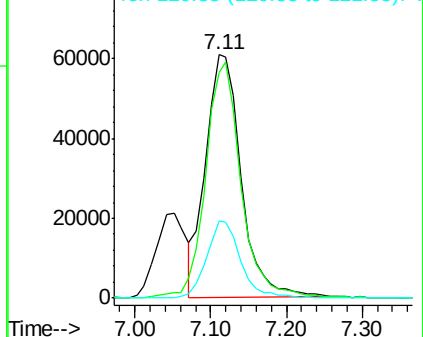


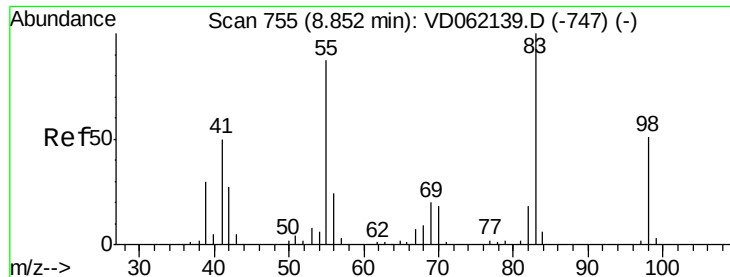
#38
Carbon Tetrachloride
Concen: 19.996 ug/l
RT: 7.11 min Scan# 578
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 117 Resp: 198995
Ion Ratio Lower Upper
117 100
119 92.8 75.8 113.8
121 31.6 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

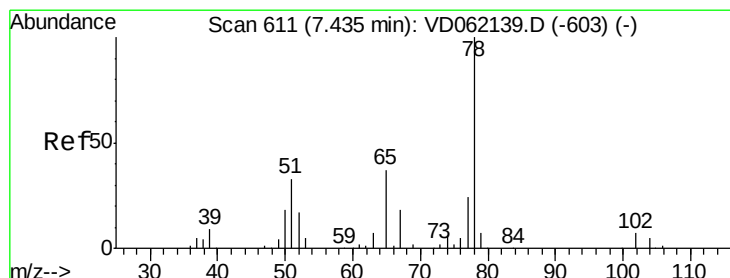
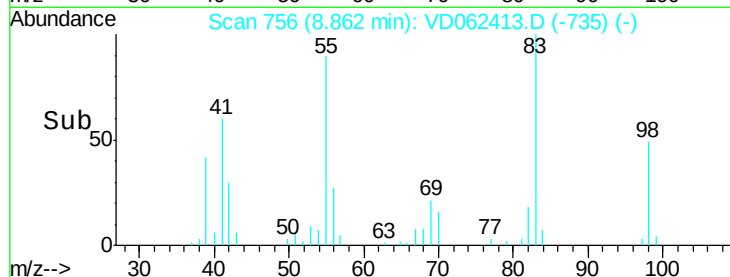
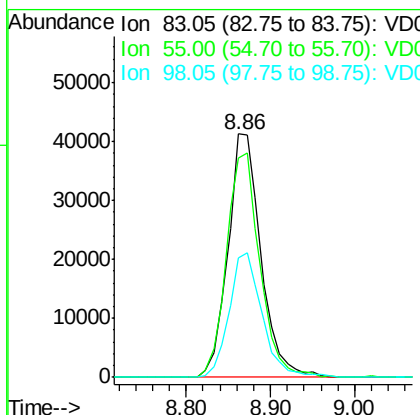
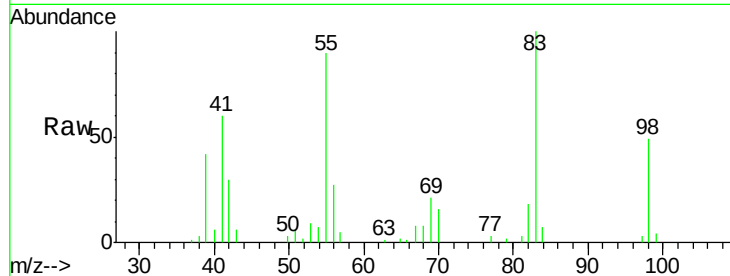




#39
Methylvlcyclohexane
Concen: 16.303 ug/l
RT: 8.86 min Scan# 756
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

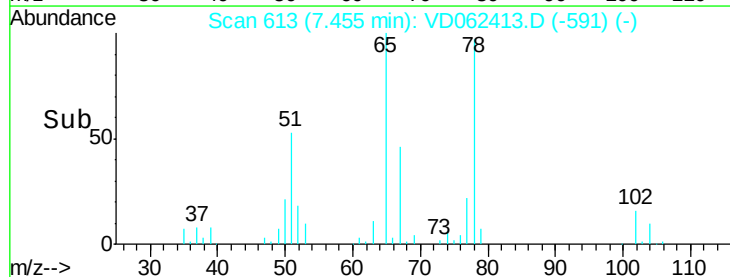
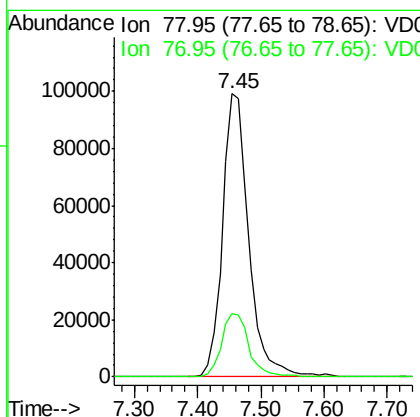
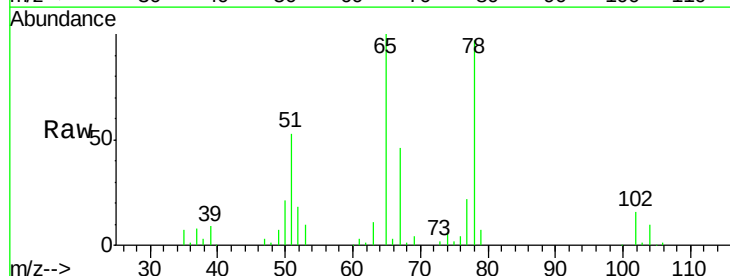
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBS01

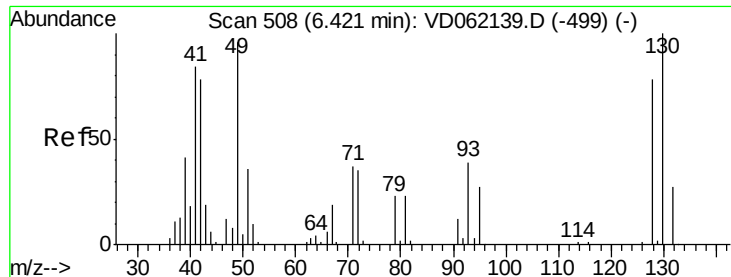
Tot Ion: 83 Resp: 112310
Ion Ratio Lower Upper
83 100
55 90.2 68.2 102.4
98 49.3 38.2 57.4



#40
Benzene
Concen: 17.561 ug/l
RT: 7.45 min Scan# 613
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 78 Resp: 285128
Ion Ratio Lower Upper
78 100
77 22.6 19.7 29.5

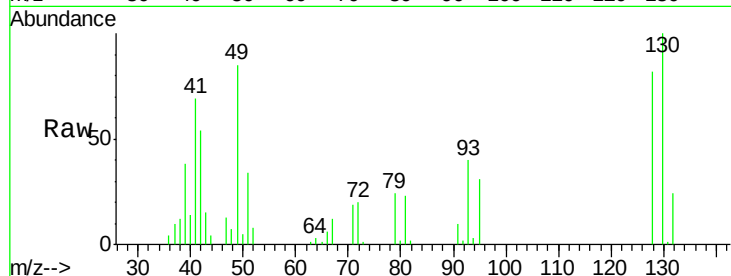




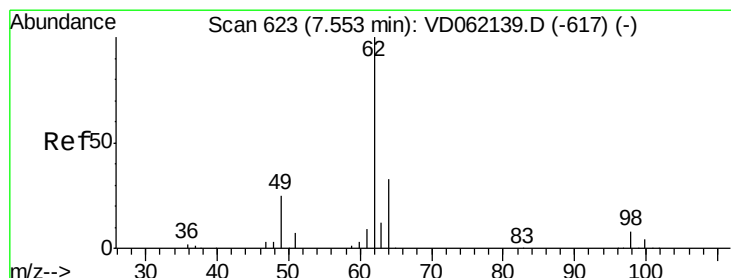
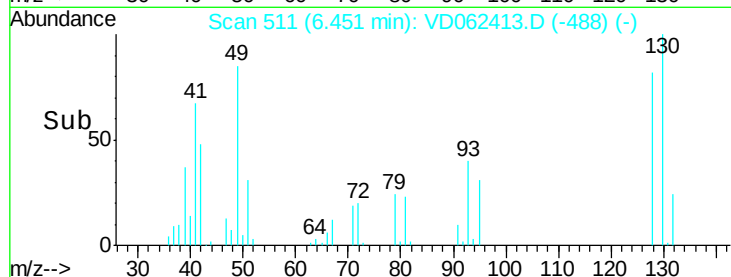
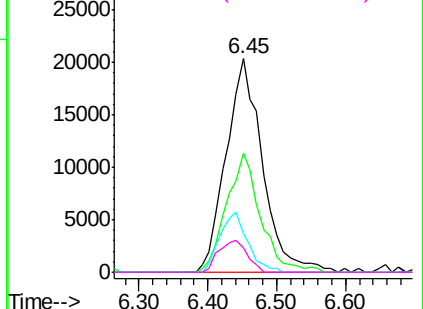
#41
Methacrylonitrile
Concen: 19.943 ug/l
RT: 6.45 min Scan# 511
Delta R.T. 0.03 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBS01

Tot Ion: 41 Resp: 74315
Ion Ratio Lower Upper
41 100
39 56.0 34.1 51.1#
67 18.0 23.8 35.6#
52 11.3 8.8 13.2

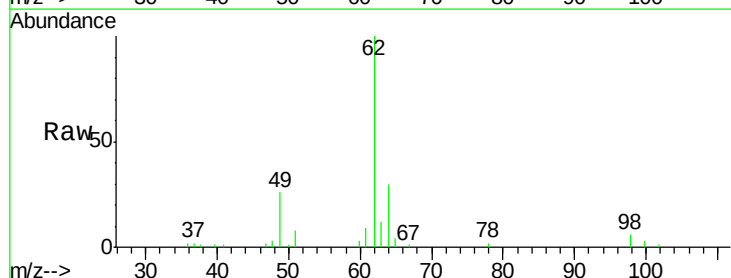


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

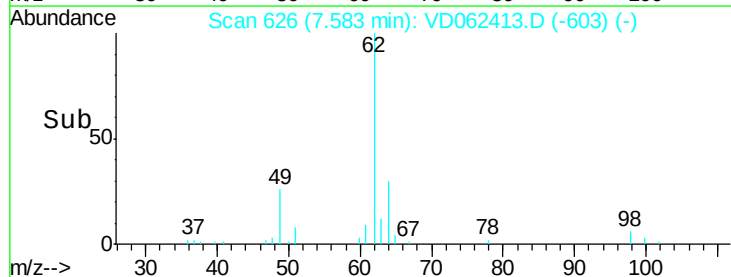
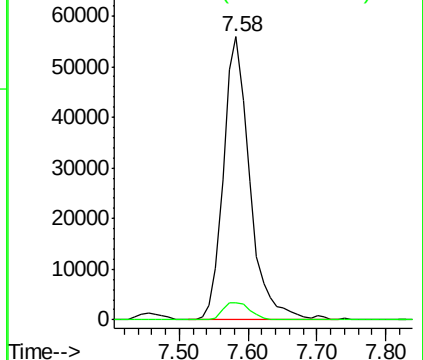


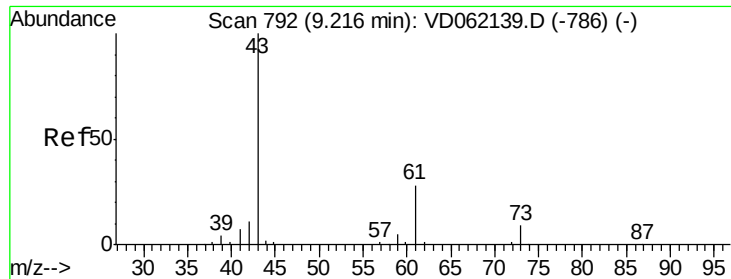
#42
1,2-Dichloroethane
Concen: 21.561 ug/l
RT: 7.58 min Scan# 626
Delta R.T. 0.03 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 62 Resp: 148315
Ion Ratio Lower Upper
62 100
98 6.3 0.0 17.8



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





#43

Isopropyl Acetate

Concen: 18.453 ug/l

RT: 9.25 min Scan# 795

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

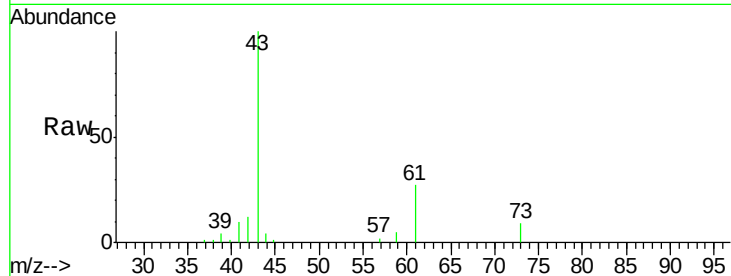
Tot Ion: 43 Resp: 79798

Ion Ratio Lower Upper

43 100

61 26.8 25.1 37.7

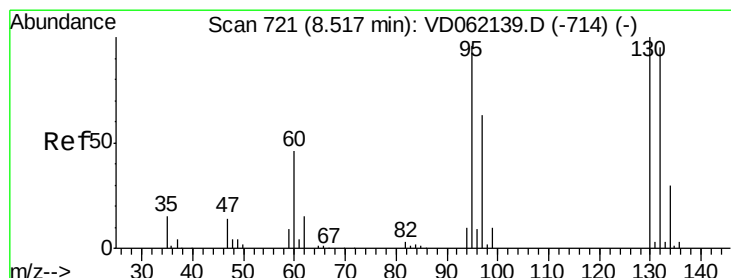
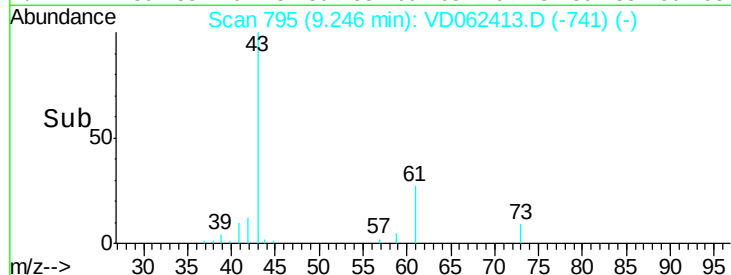
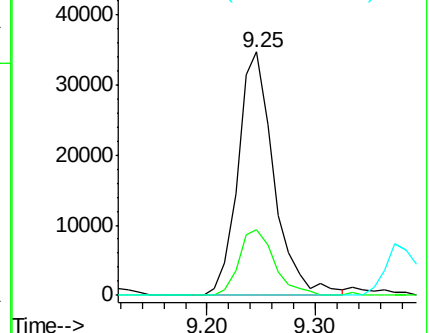
87 0.0 0.0 0.0



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: 17.719 ug/l

RT: 8.55 min Scan# 724

Delta R.T. 0.03 min

Lab File: VD062413.D

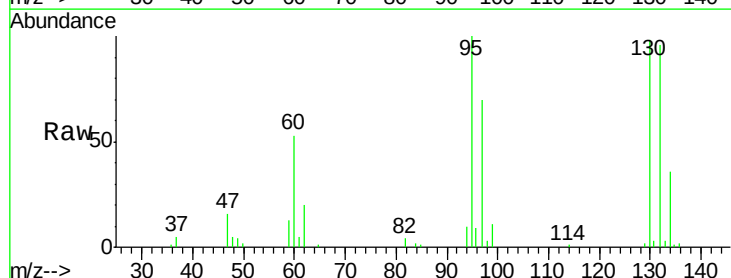
Acq: 16 May 2019 13:13

Tgt Ion:130 Resp: 109625

Ion Ratio Lower Upper

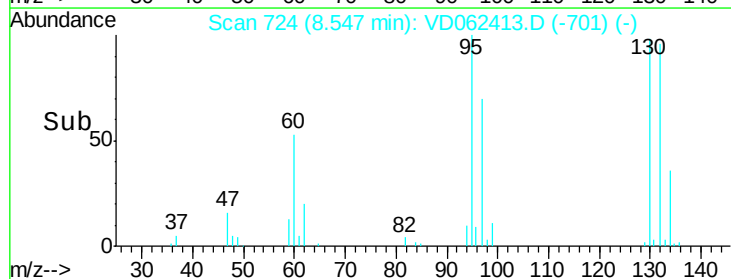
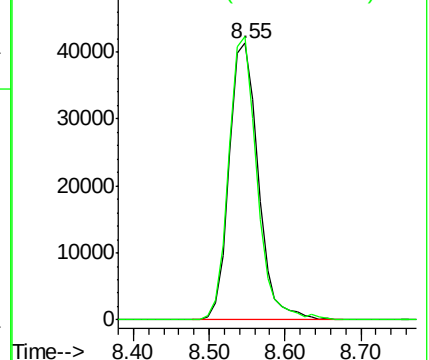
130 100

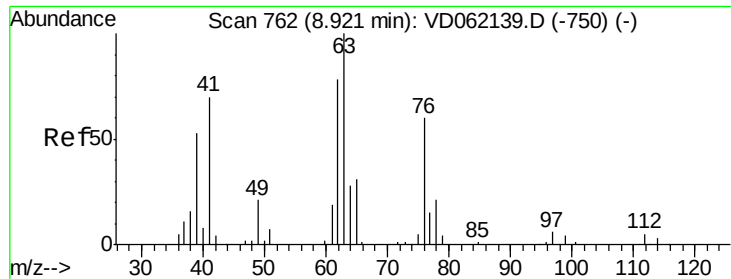
95 102.3 0.0 174.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

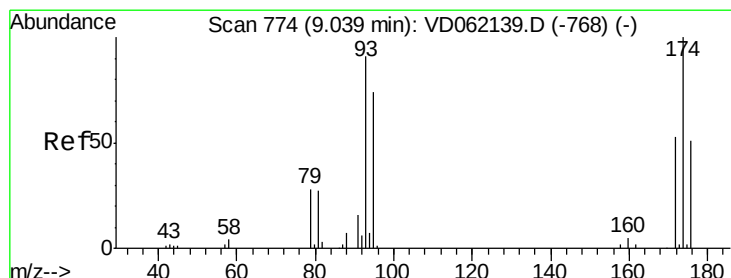
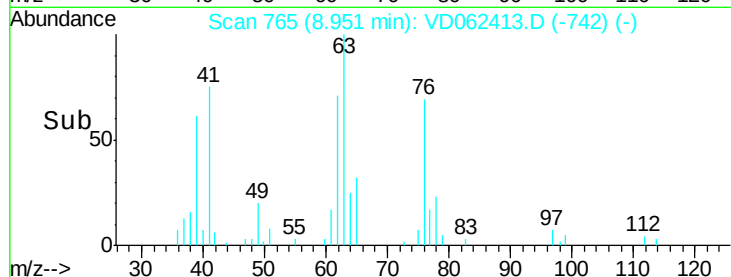
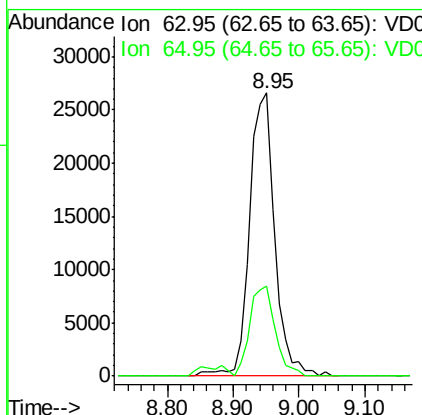
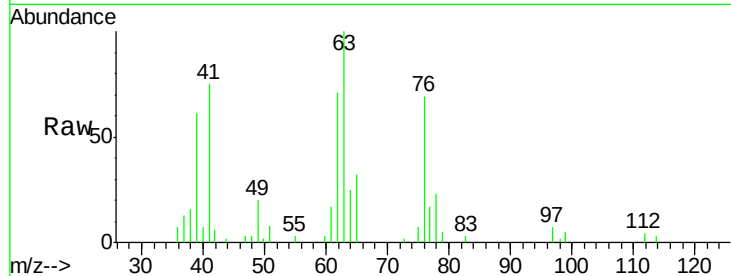




#45
 1,2-Dichloropropane
 Concen: 17.804 ug/l
 RT: 8.95 min Scan# 765
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

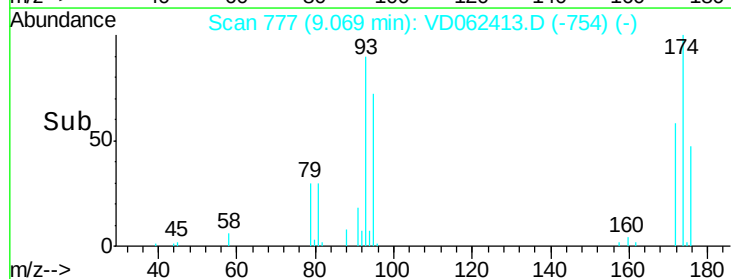
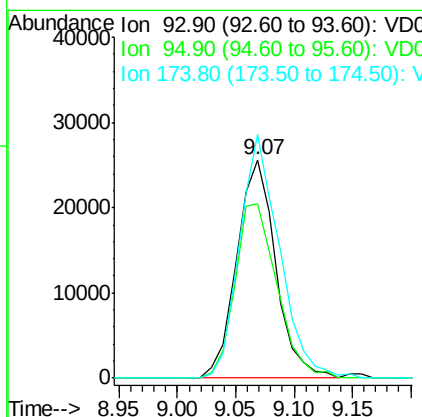
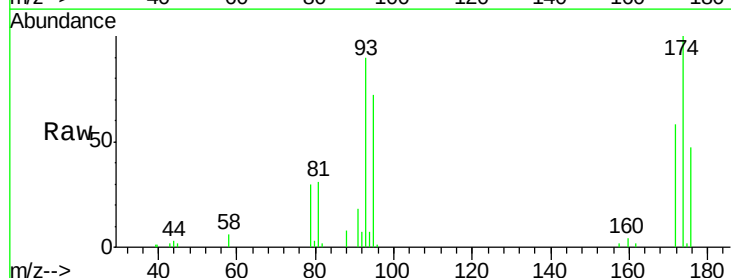
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

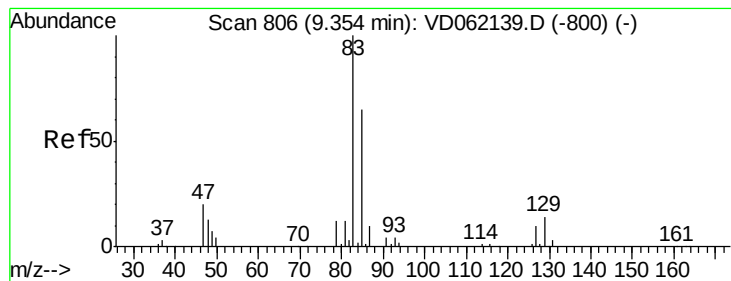
Tot Ion: 63 Resp: 71502
 Ion Ratio Lower Upper
 63 100
 65 31.9 23.8 35.6



#46
 Dibromomethane
 Concen: 18.155 ug/l
 RT: 9.07 min Scan# 777
 Delta R.T. 0.03 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion: 93 Resp: 59291
 Ion Ratio Lower Upper
 93 100
 95 80.0 64.8 97.2
 174 111.4 79.3 118.9





#47

Bromodichloromethane

Concen: 19.768 ug/l

RT: 9.38 min Scan# 809

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

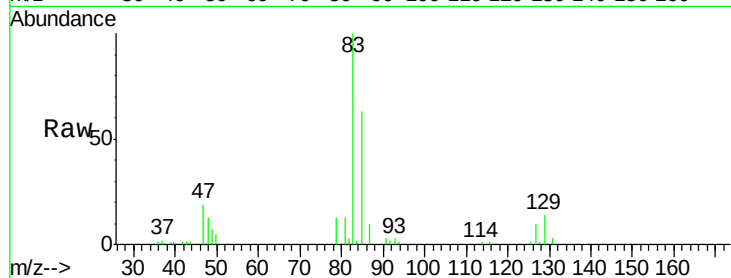
Tot Ion: 83 Resp: 157912

Ion Ratio Lower Upper

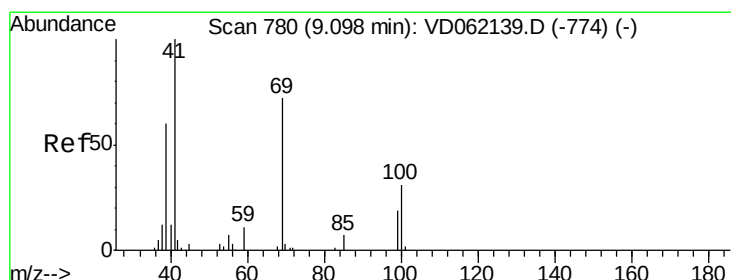
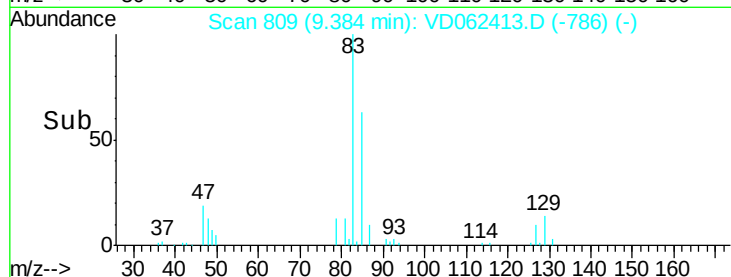
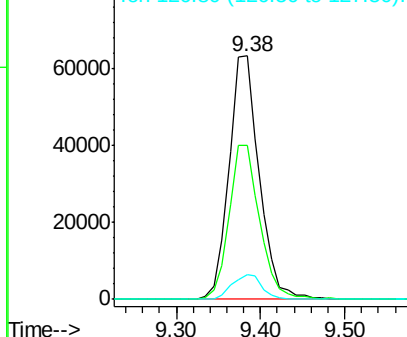
83 100

85 63.5 50.9 76.3

127 10.3 8.1 12.1



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 19.352 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

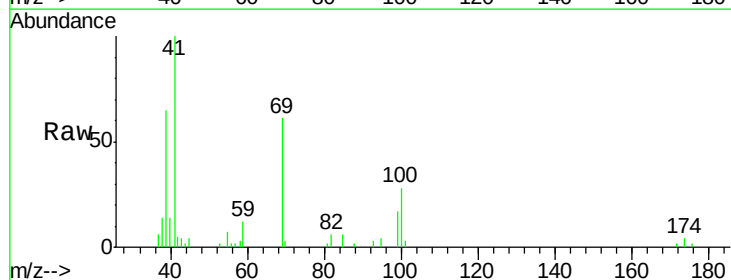
Tgt Ion: 41 Resp: 51548

Ion Ratio Lower Upper

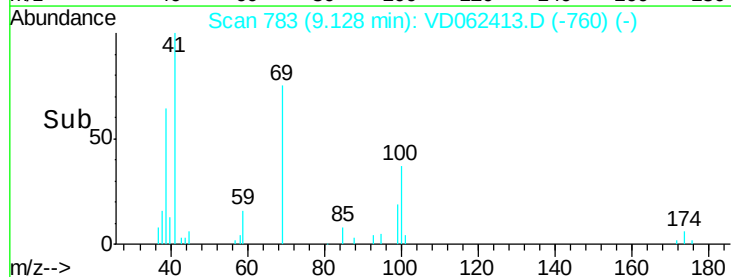
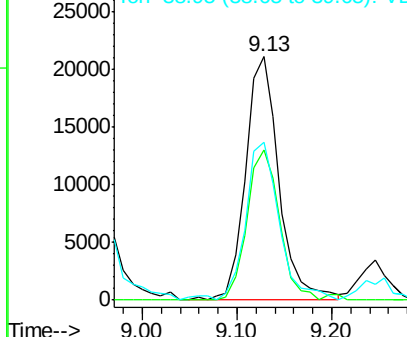
41 100

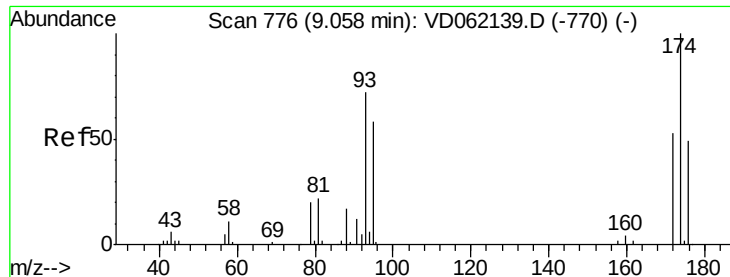
69 61.4 64.2 96.2#

39 64.8 46.8 70.2



Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 38.95 (38.65 to 39.65): VDC

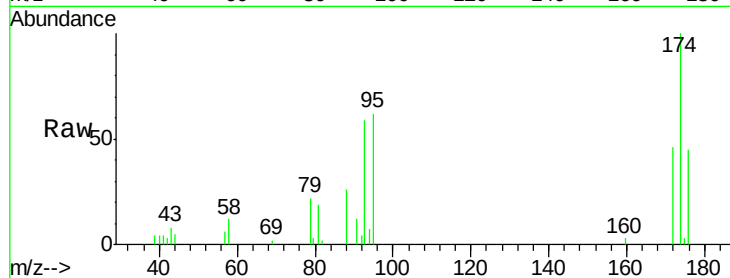




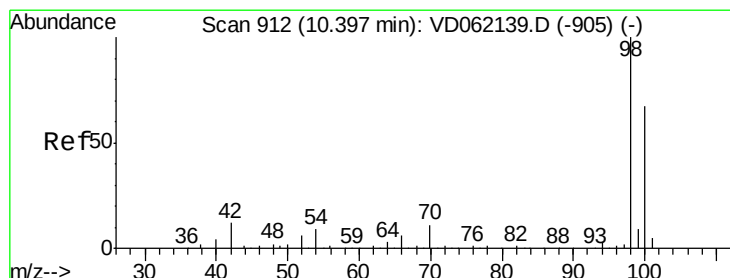
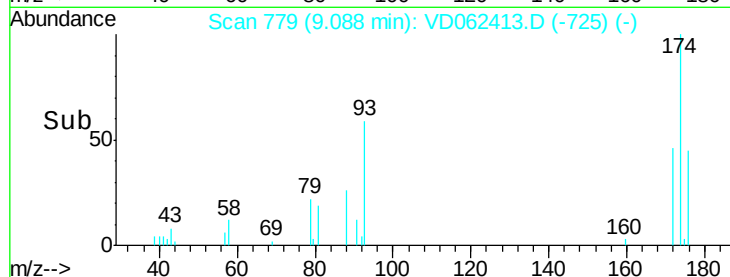
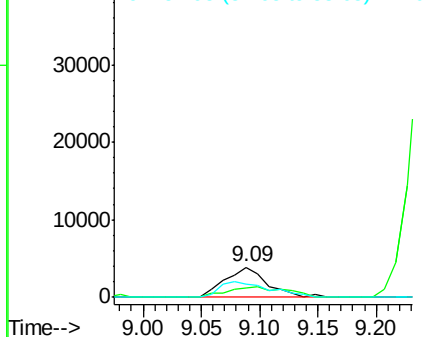
#49
1,4-Dioxane
Concen: 334.063 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.03 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

Tot Ion: 88 Resp: 9601
Ion Ratio Lower Upper
88 100
43 30.0 23.4 35.0
58 46.3 44.0 66.0

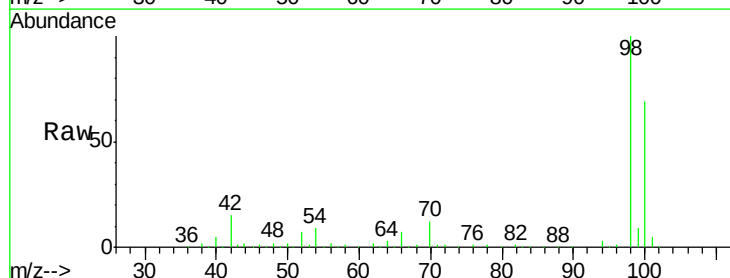


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

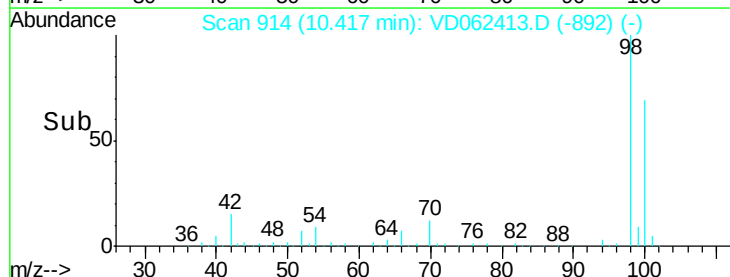
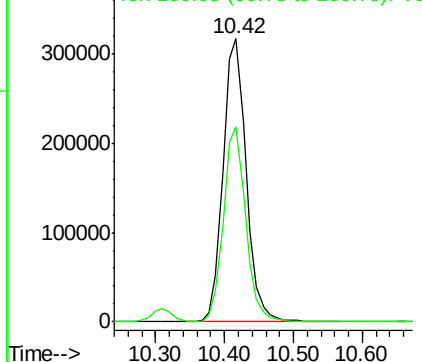


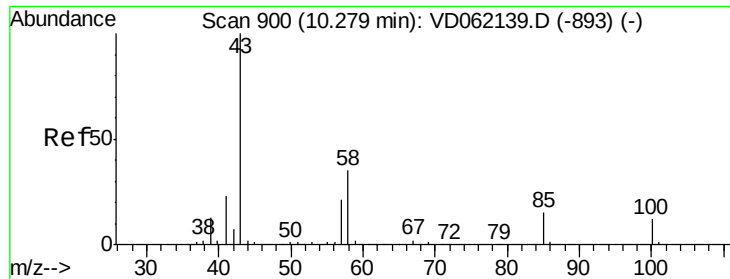
#50
Toluene-d8
Concen: 41.882 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 98 Resp: 734744
Ion Ratio Lower Upper
98 100
100 69.1 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: 97.095 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.03 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

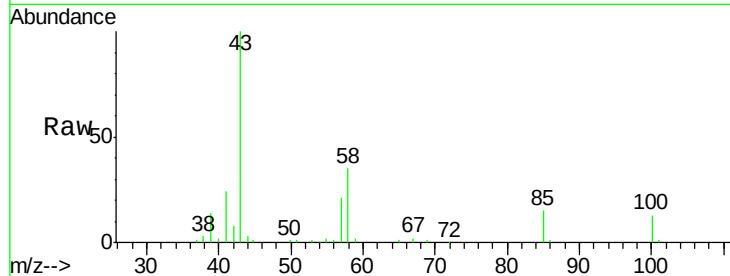
VD0516SBS01

Tot Ion: 43 Resp: 269906

Ion Ratio Lower Upper

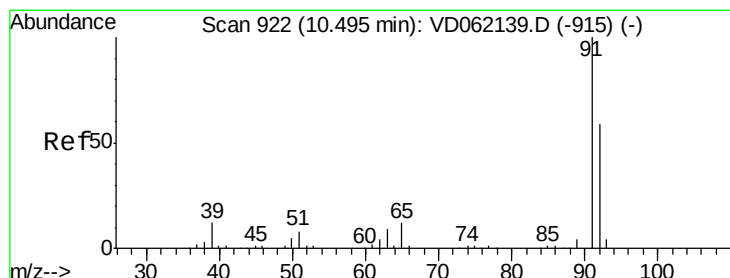
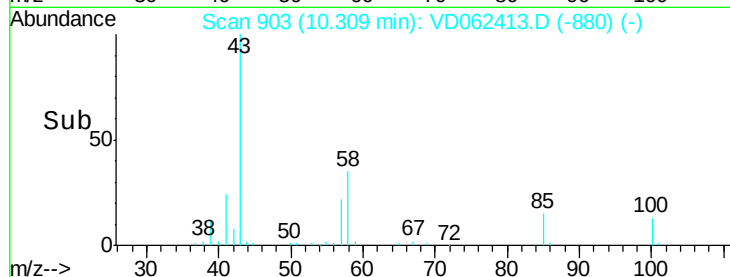
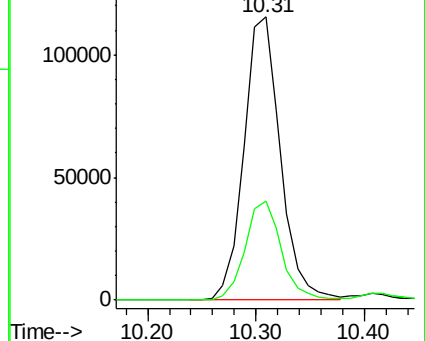
43 100

58 35.1 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 18.637 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD062413.D

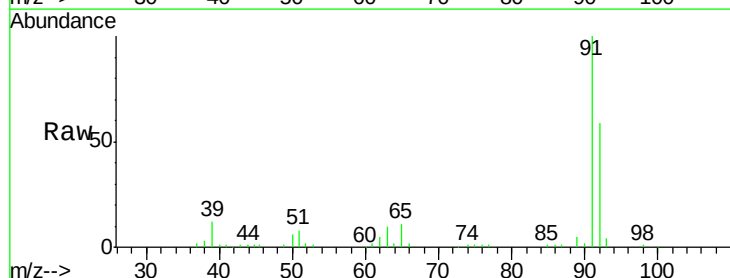
Acq: 16 May 2019 13:13

Tgt Ion: 92 Resp: 196875

Ion Ratio Lower Upper

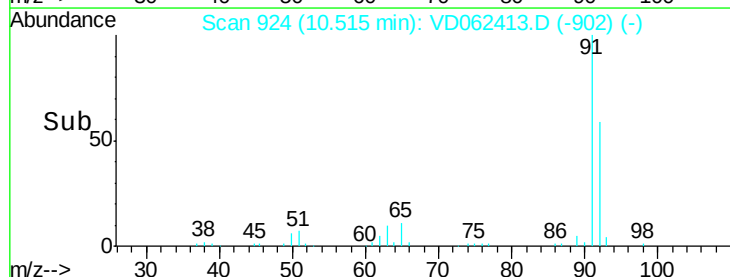
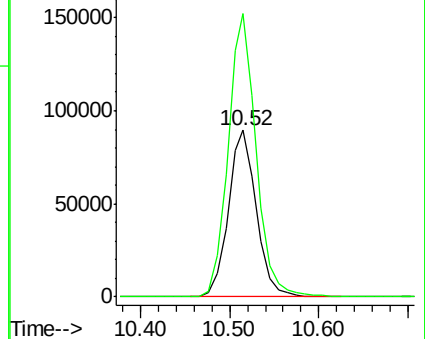
92 100

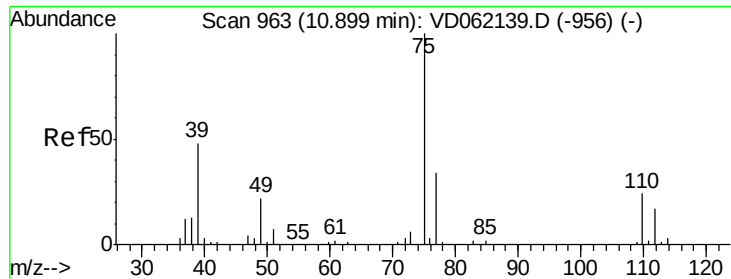
91 169.8 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

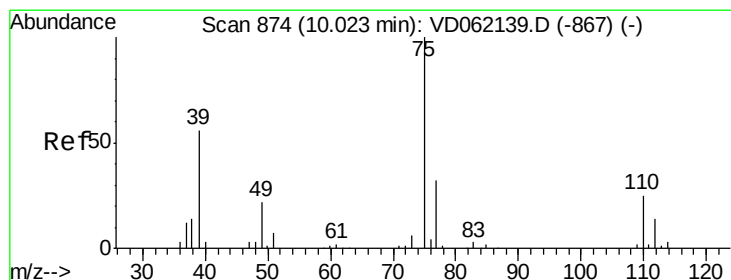
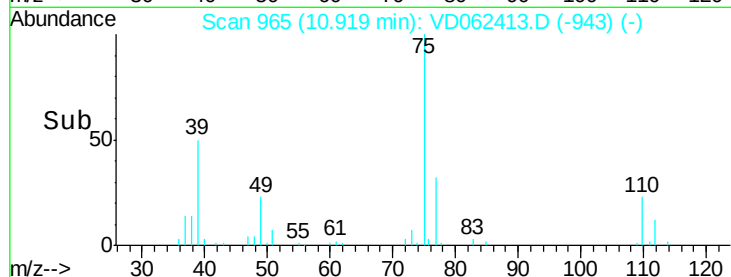
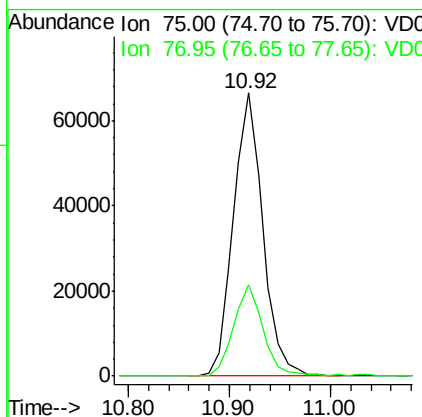
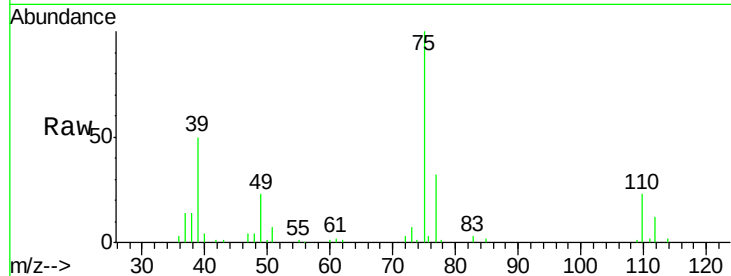




#53
 t-1,3-Dichloropropene
 Concen: 19.555 ug/l
 RT: 10.92 min Scan# 965
 Delta R.T. 0.02 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

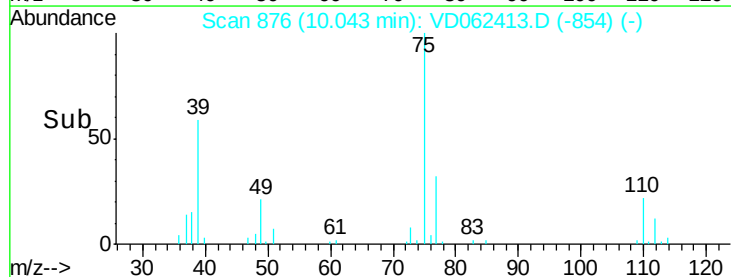
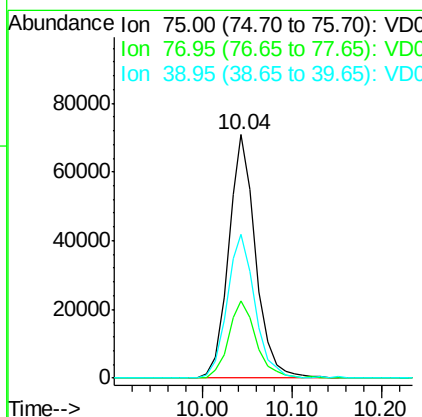
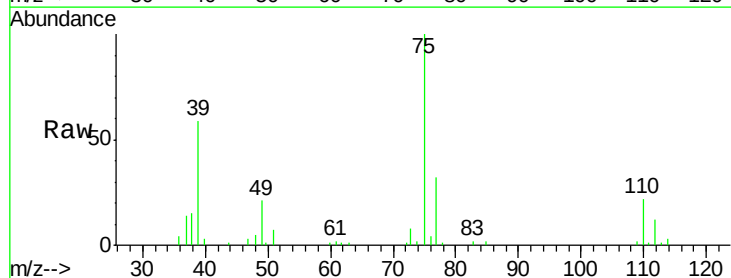
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

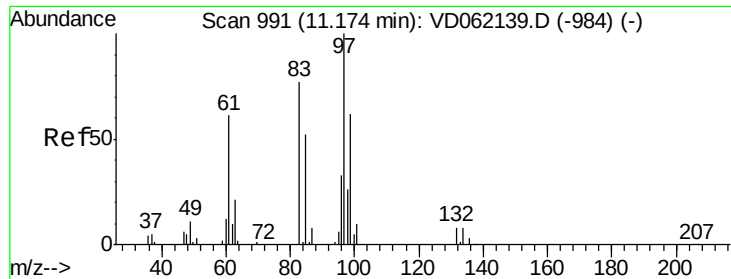
Tot Ion: 75 Resp: 135010
 Ion Ratio Lower Upper
 75 100
 77 32.1 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 19.968 ug/l
 RT: 10.04 min Scan# 876
 Delta R.T. 0.02 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion: 75 Resp: 150396
 Ion Ratio Lower Upper
 75 100
 77 32.0 25.5 38.3
 39 59.1 39.4 59.2

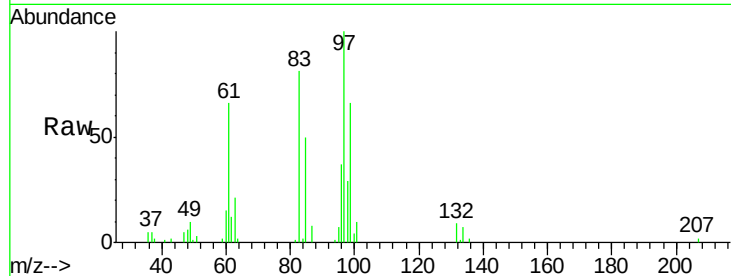




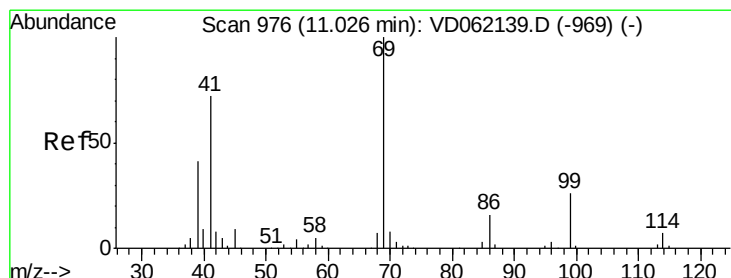
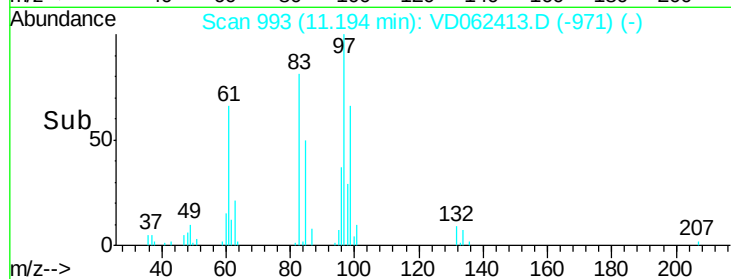
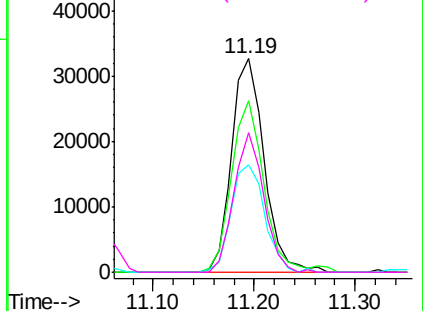
#55
 1,1,2-Trichloroethane
 Concen: 19.618 ug/l
 RT: 11.19 min Scan# 993
 Delta R.T. 0.02 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

Tot Ion:	97	Resp:	73327
Ion	Ratio	Lower	Upper
97	100		
83	80.5	65.7	98.5
85	50.4	45.6	68.4
99	65.5	48.4	72.6

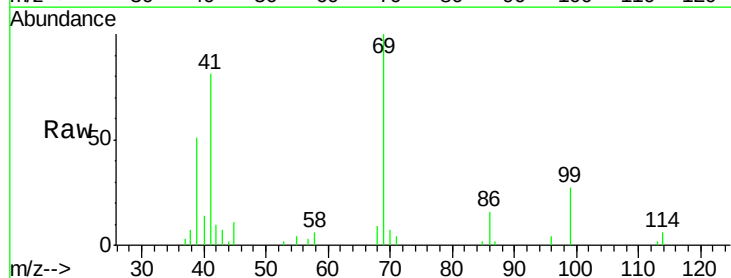


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

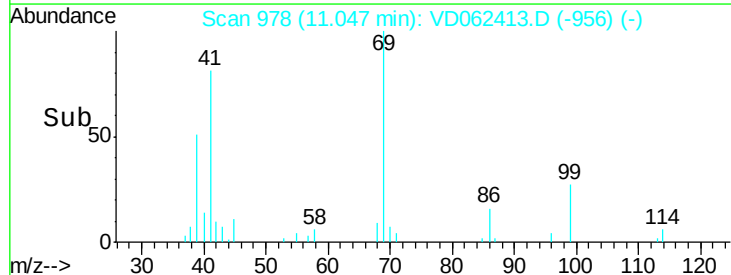
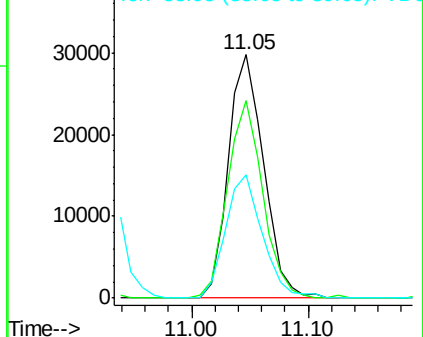


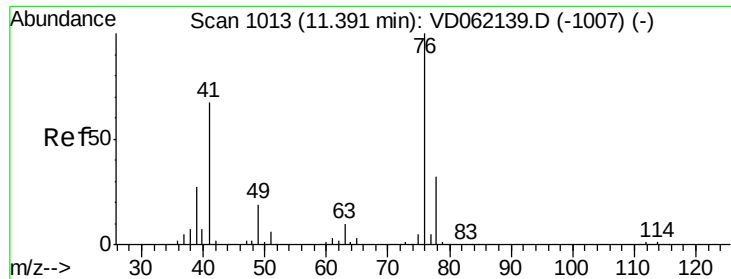
#56
 Ethyl methacrylate
 Concen: 16.070 ug/l
 RT: 11.05 min Scan# 978
 Delta R.T. 0.02 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion:	69	Resp:	62417
Ion	Ratio	Lower	Upper
69	100		
41	81.3	56.3	84.5
39	50.5	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

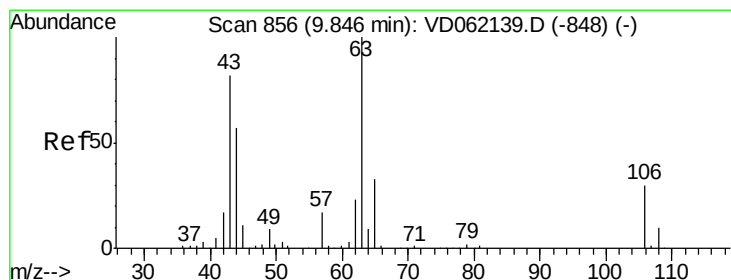
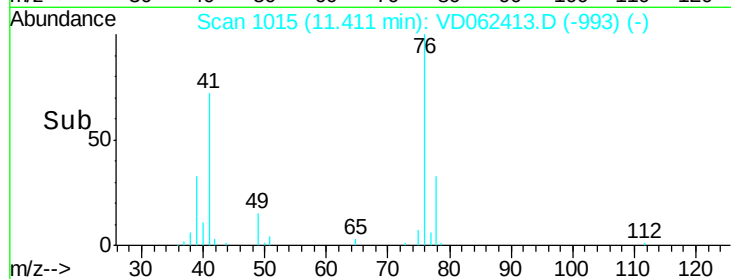
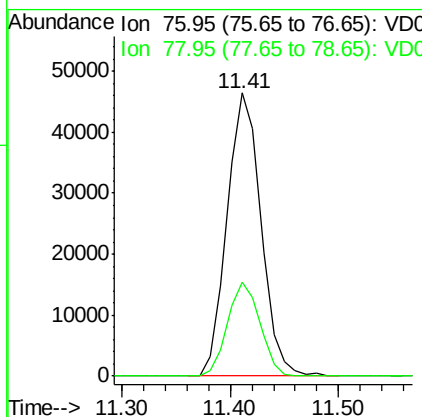
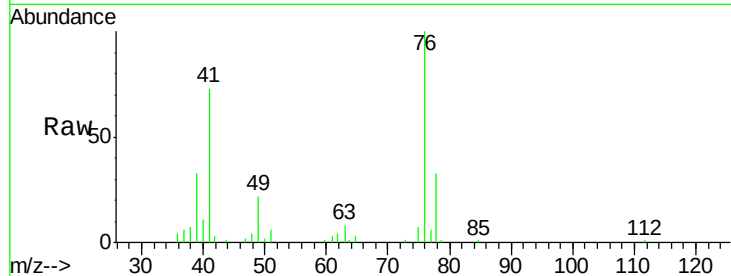




#57
 1,3-Dichloropropane
 Concen: 17.902 ug/l
 RT: 11.41 min Scan# 1015
 Delta R.T. 0.02 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

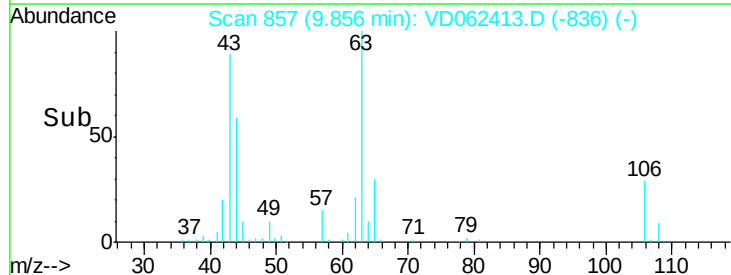
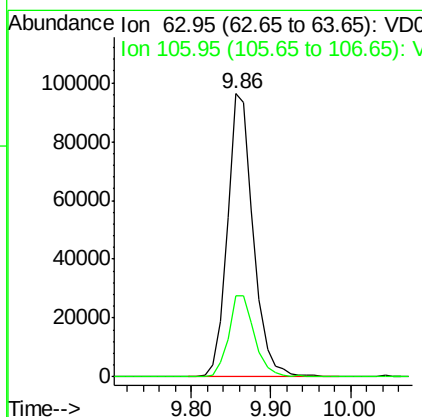
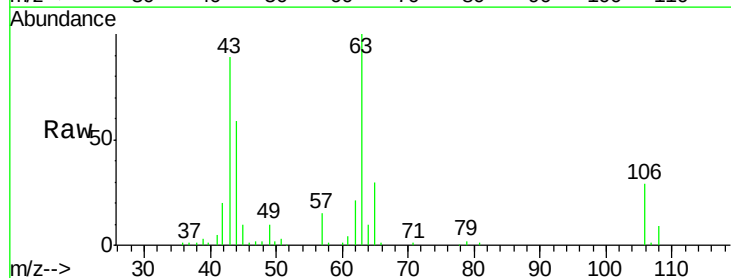
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

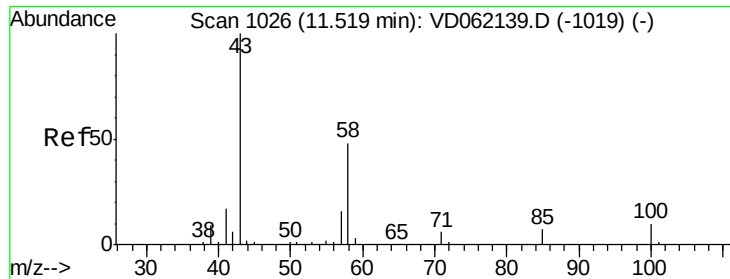
Tot Ion: 76 Resp: 101089
 Ion Ratio Lower Upper
 76 100
 78 33.3 26.2 39.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 102.898 ug/l
 RT: 9.86 min Scan# 857
 Delta R.T. 0.01 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion: 63 Resp: 218309
 Ion Ratio Lower Upper
 63 100
 106 28.7 22.6 34.0

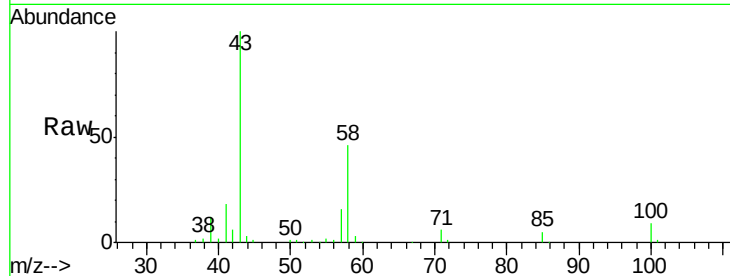




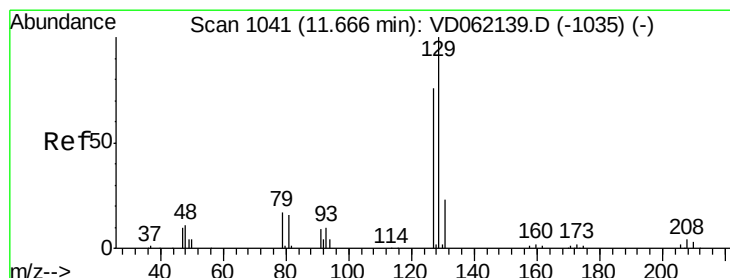
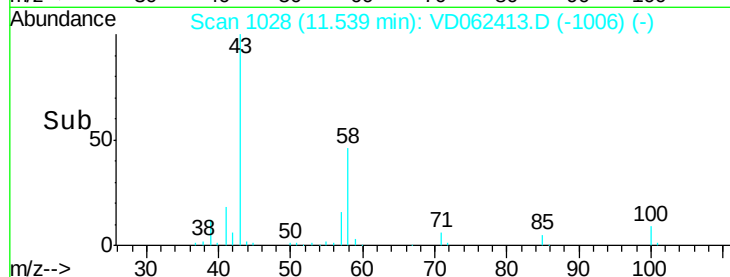
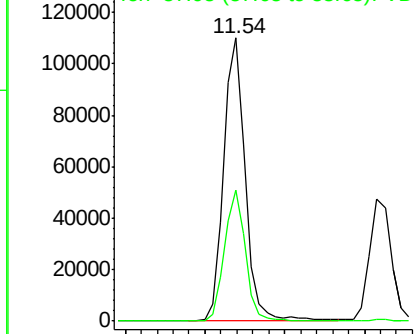
#59
2-Hexanone
Concen: 103.154 ug/l
RT: 11.54 min Scan# 1028
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

Tot Ion: 43 Resp: 211345
Ion Ratio Lower Upper
43 100
58 46.1 25.4 76.4

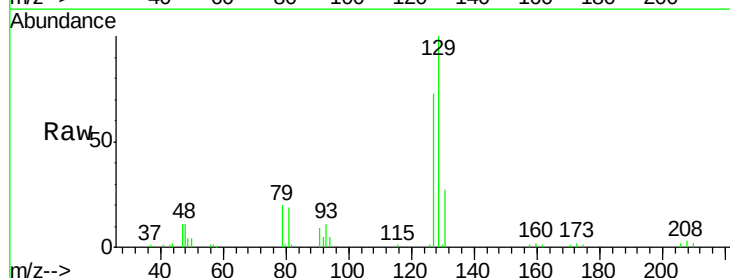


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

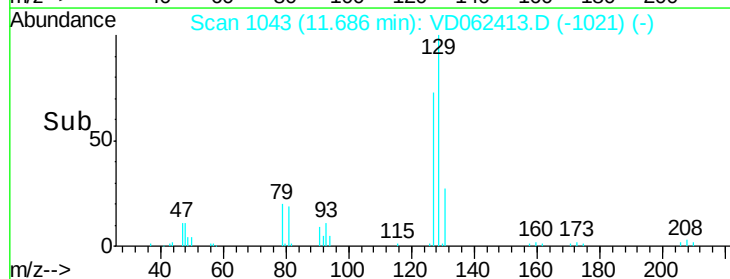
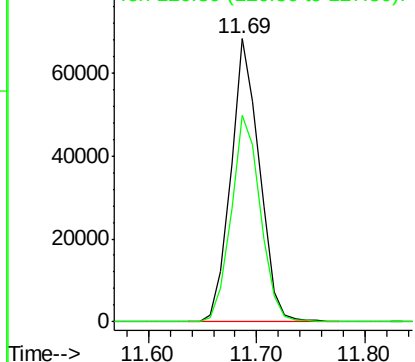


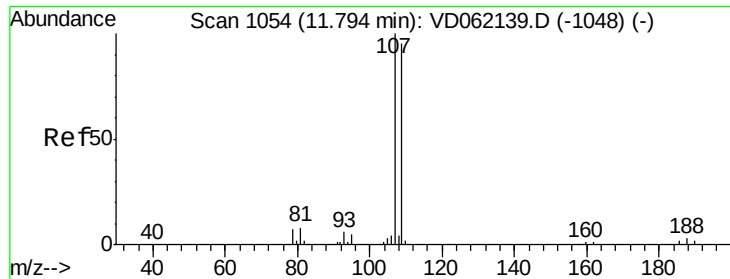
#60
Dibromochloromethane
Concen: 19.293 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 129 Resp: 124623
Ion Ratio Lower Upper
129 100
127 73.1 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

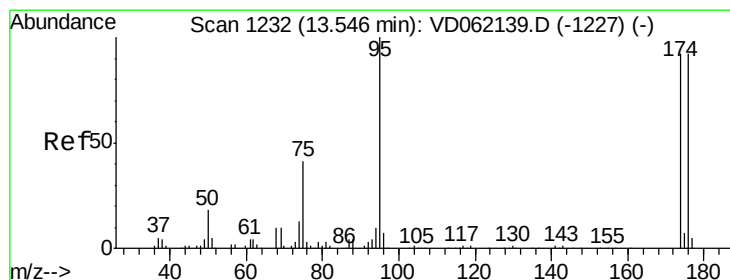
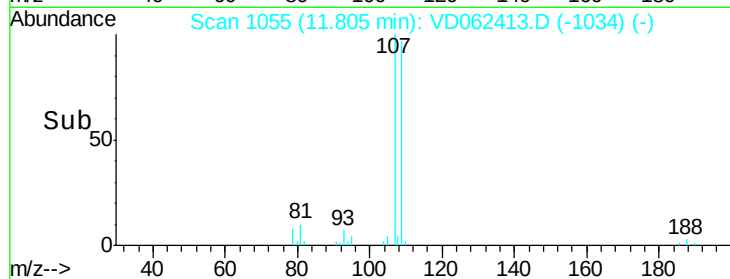
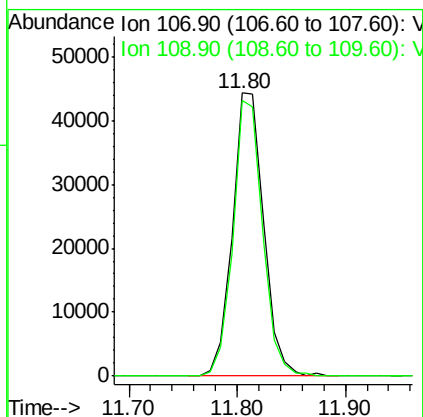
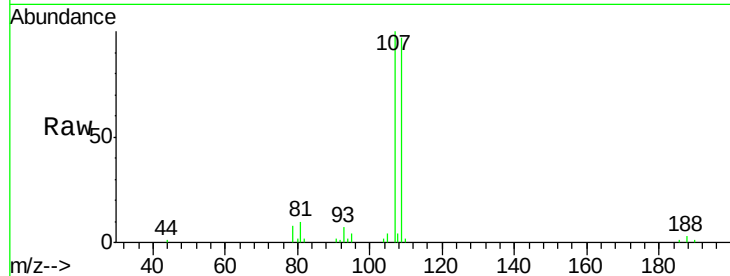




#61
1,2-Dibromoethane
Concen: 19.446 ug/l
RT: 11.80 min Scan# 1055
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

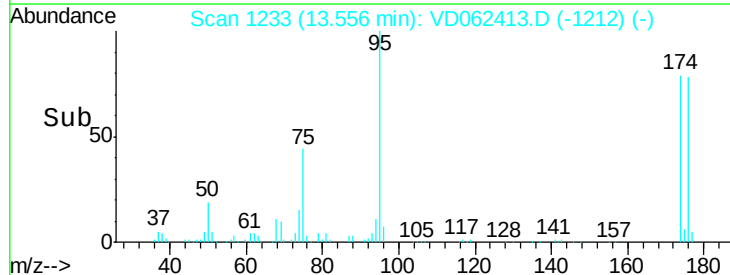
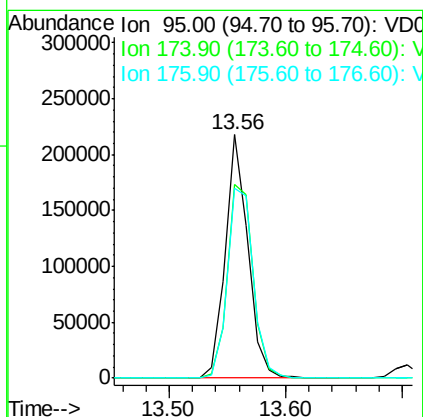
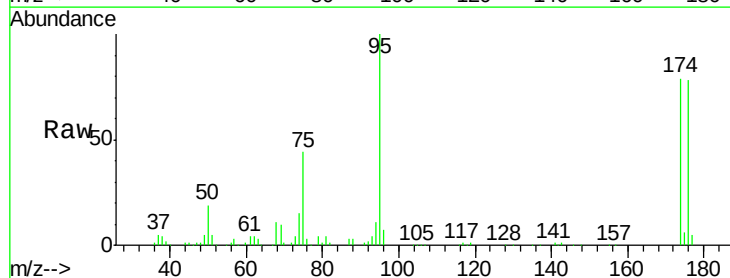
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

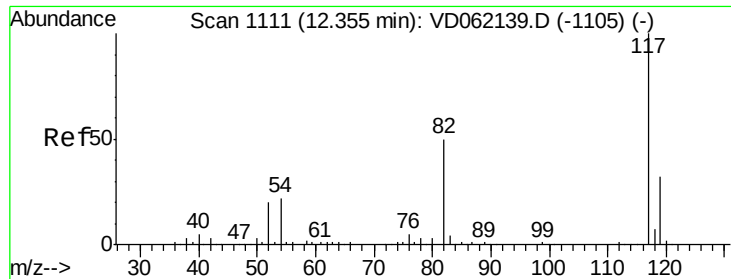
Tot Ion:107 Resp: 88368
Ion Ratio Lower Upper
107 100
109 97.4 78.3 117.5



#62
4-Bromofluorobenzene
Concen: 41.424 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 95 Resp: 291818
Ion Ratio Lower Upper
95 100
174 79.4 0.0 181.8
176 77.9 0.0 174.4

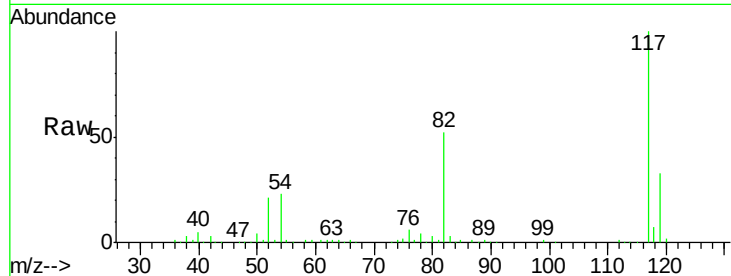




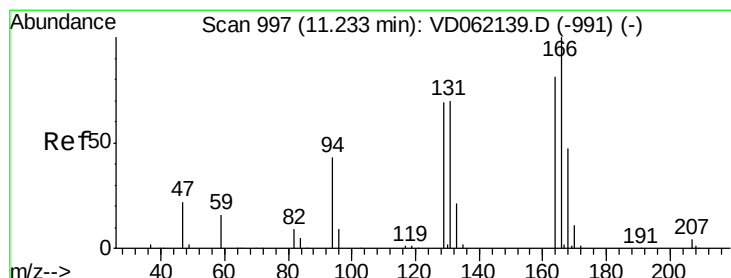
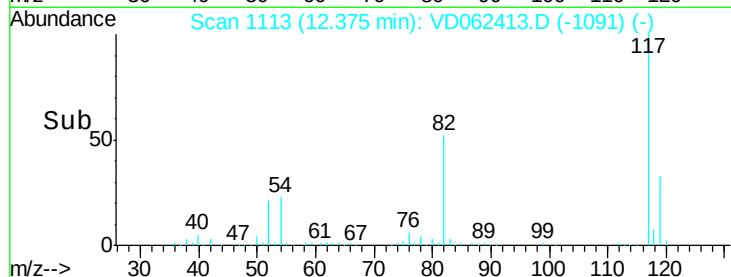
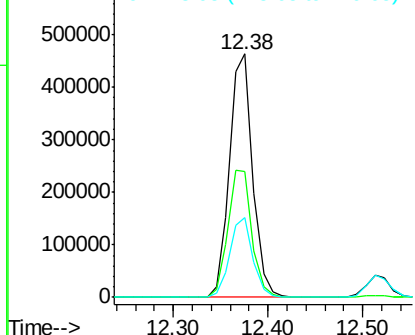
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

Tot Ion:117 Resp: 786413
Ion Ratio Lower Upper
117 100
82 51.8 36.2 54.2
119 32.9 26.2 39.4

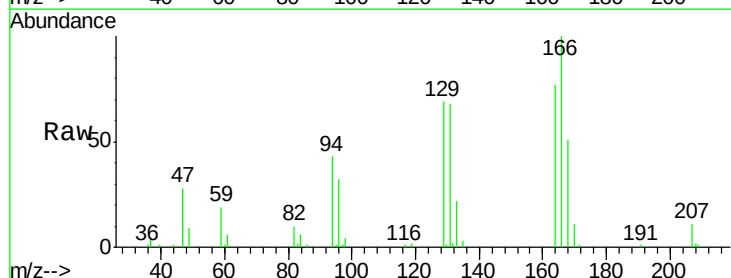


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

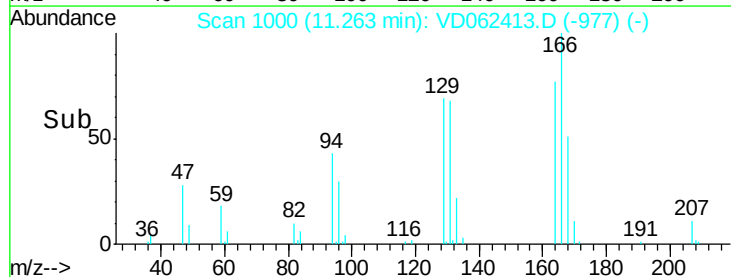
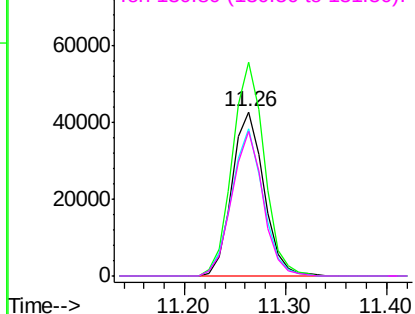


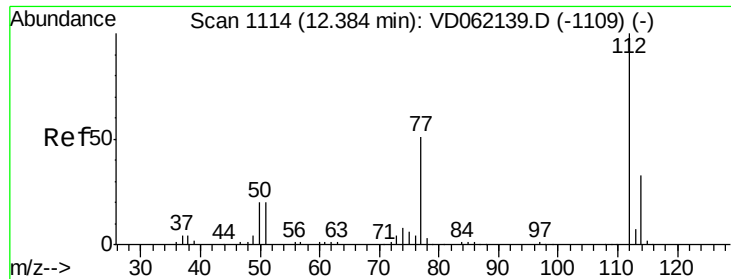
#64
Tetrachloroethene
Concen: 15.257 ug/l
RT: 11.26 min Scan# 1000
Delta R.T. 0.03 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion:164 Resp: 93822
Ion Ratio Lower Upper
164 100
166 129.9 101.5 152.3
129 89.3 74.6 112.0
131 88.2 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

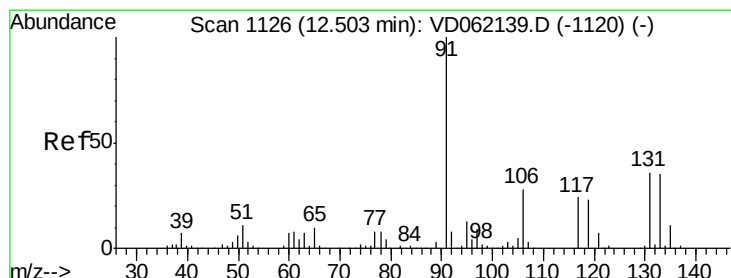
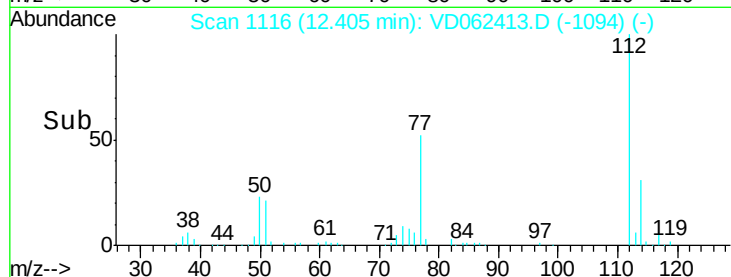
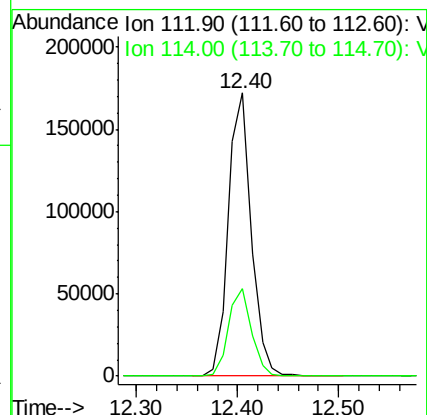
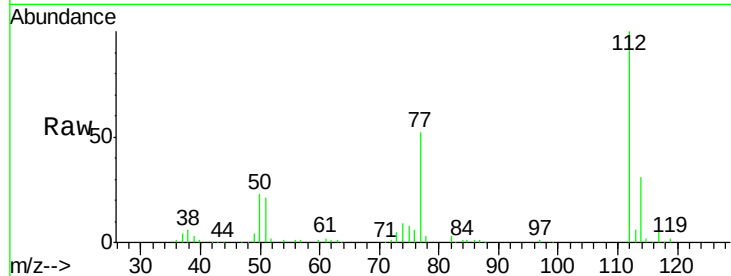




#65
Chlorobenzene
Concen: 18.588 ug/l
RT: 12.40 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

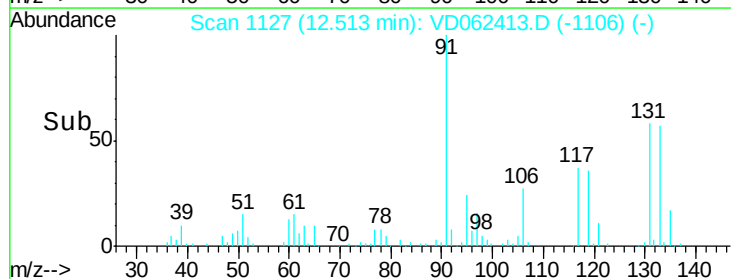
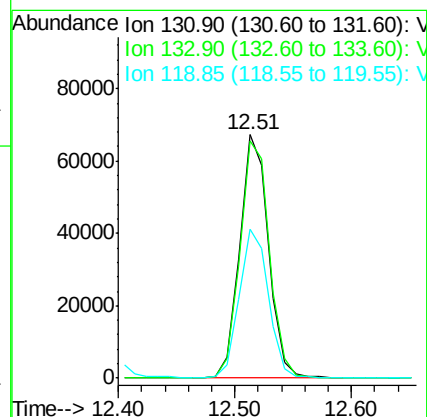
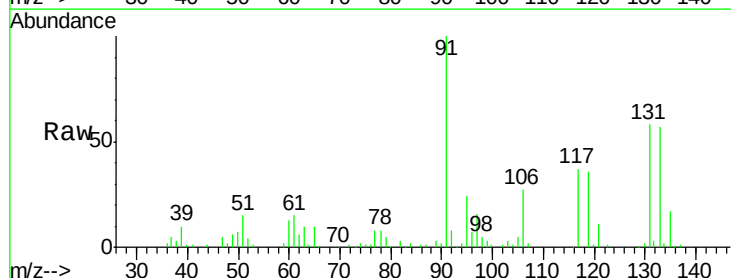
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBS01

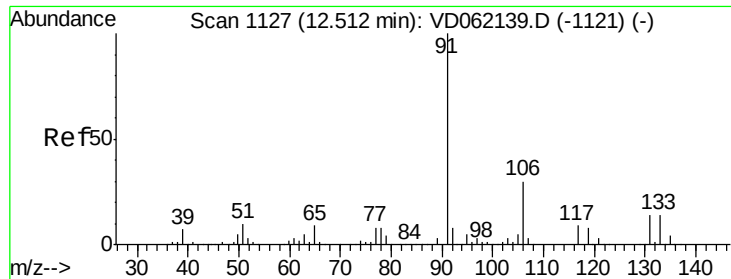
Tot Ion:112 Resp: 272267
Ion Ratio Lower Upper
112 100
114 31.1 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 17.888 ug/l
RT: 12.51 min Scan# 1127
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion:131 Resp: 114027
Ion Ratio Lower Upper
131 100
133 97.6 48.6 145.8
119 61.4 34.7 104.1

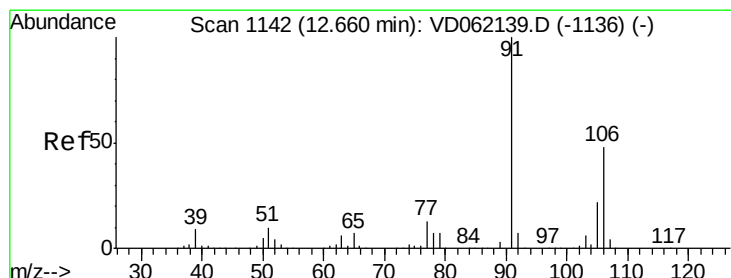
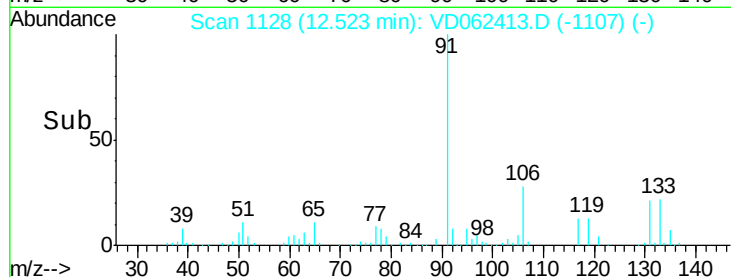
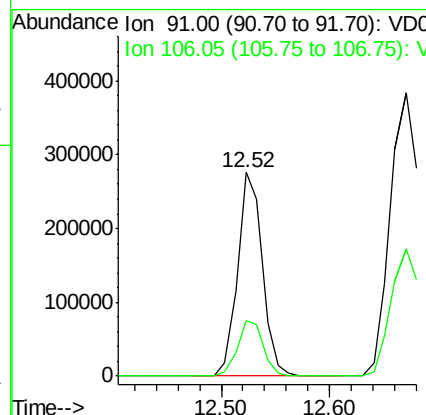
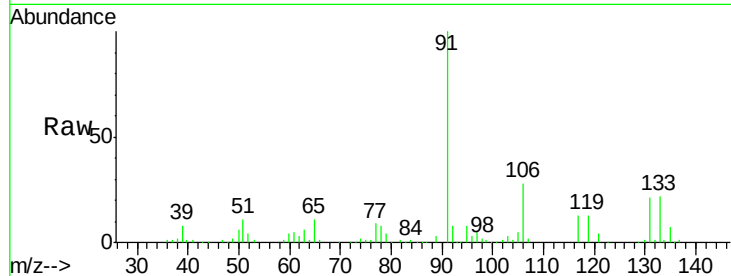




#67
Ethyl Benzene
Concen: 17.903 ug/l
RT: 12.52 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

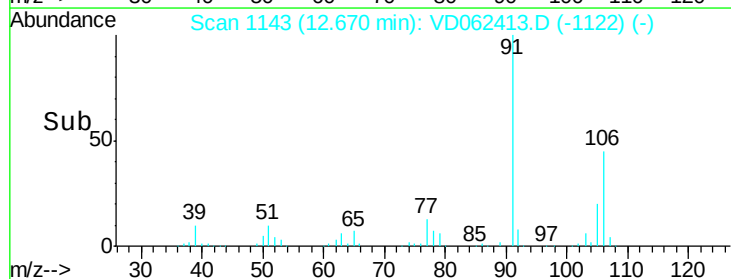
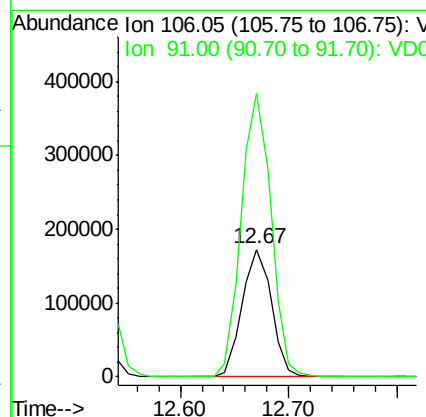
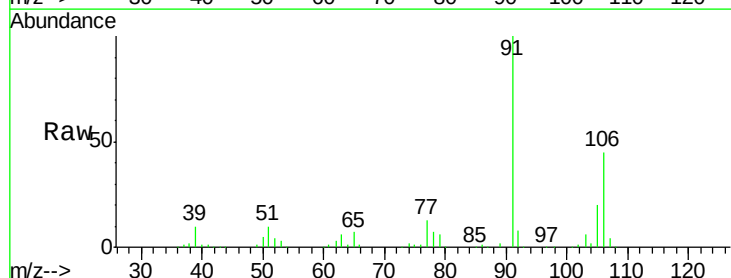
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBS01

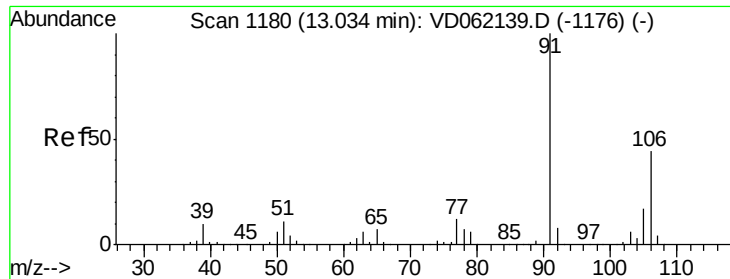
Tot Ion: 91 Resp: 439001
Ion Ratio Lower Upper
91 100
106 27.6 24.7 37.1



#68
m/p-Xylenes
Concen: 36.723 ug/l
RT: 12.67 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 106 Resp: 327622
Ion Ratio Lower Upper
106 100
91 221.8 164.0 246.0

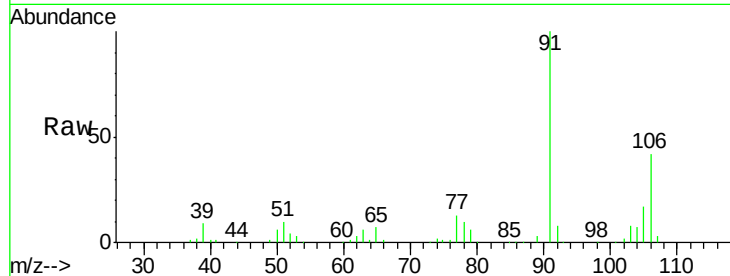




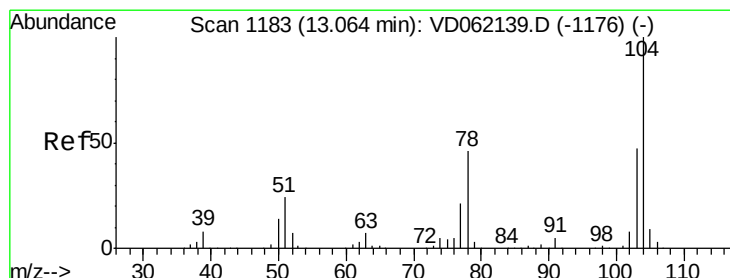
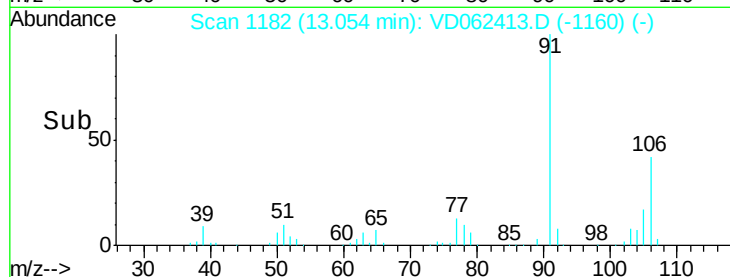
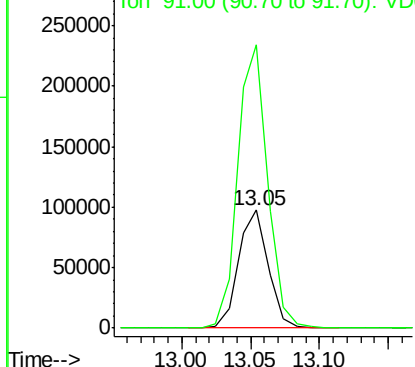
#69
o-Xylene
Concen: 17.673 ug/l
RT: 13.05 min Scan# 1182
Delta R.T. 0.02 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBS01

Tot Ion:106 Resp: 146582
Ion Ratio Lower Upper
106 100
91 240.2 106.7 319.9

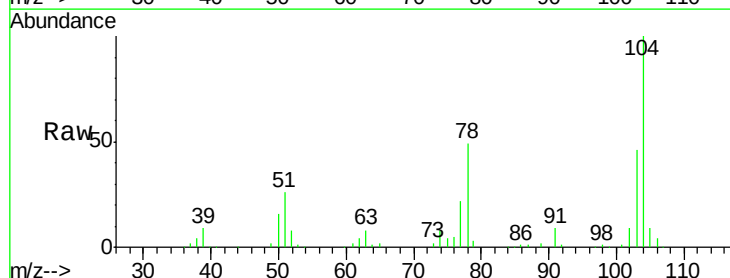


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

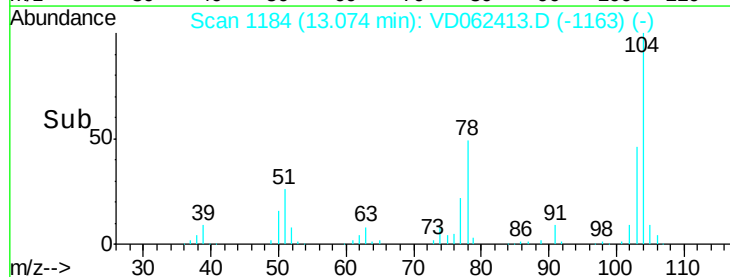
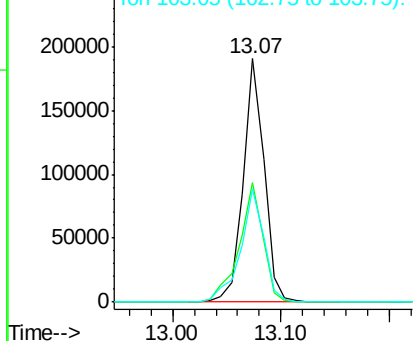


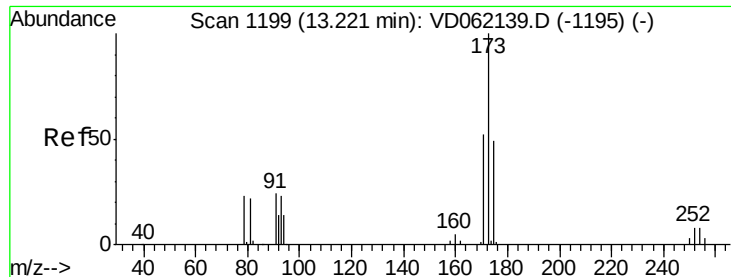
#70
Styrene
Concen: 18.170 ug/l
RT: 13.07 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion:104 Resp: 255296
Ion Ratio Lower Upper
104 100
78 49.2 35.4 53.2
103 46.5 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: 18.177 ug/l

RT: 13.24 min Scan# 1201

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

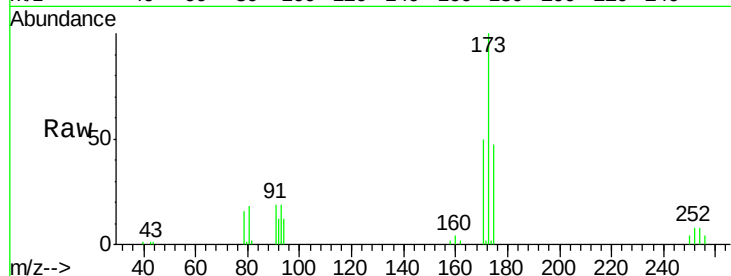
Tot Ion:173 Resp: 80618

Ion Ratio Lower Upper

173 100

175 46.9 24.4 73.4

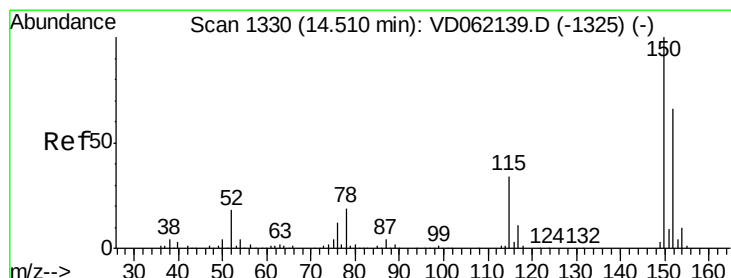
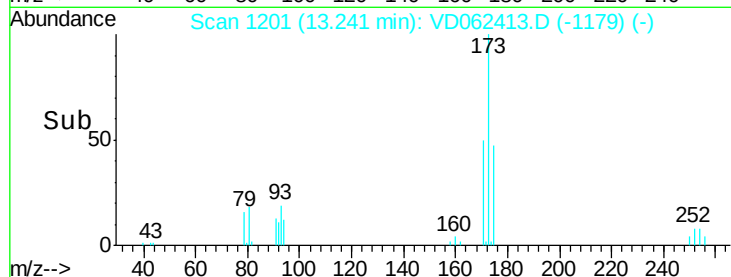
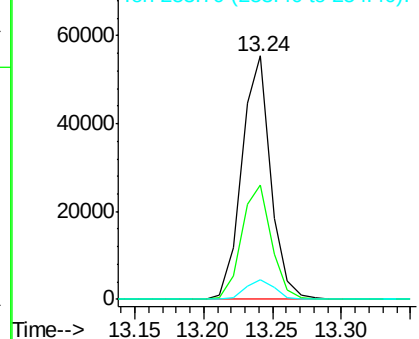
254 8.1 5.4 8.2



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

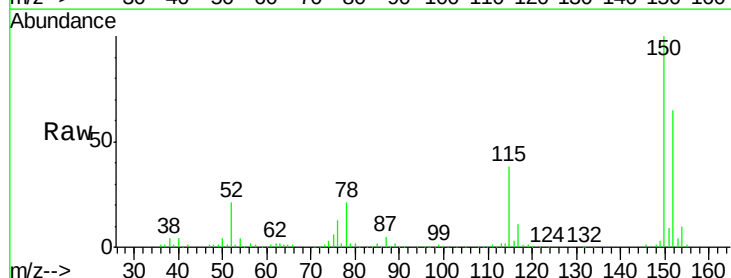
Tgt Ion:152 Resp: 435369

Ion Ratio Lower Upper

152 100

115 58.0 30.9 92.7

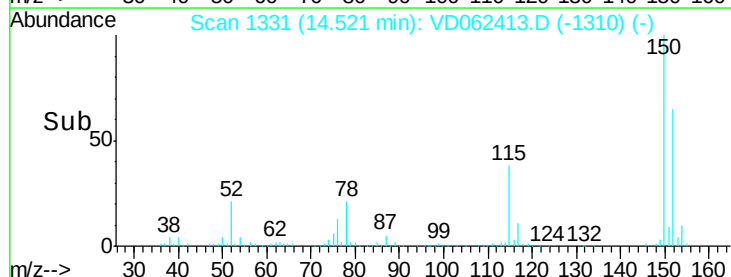
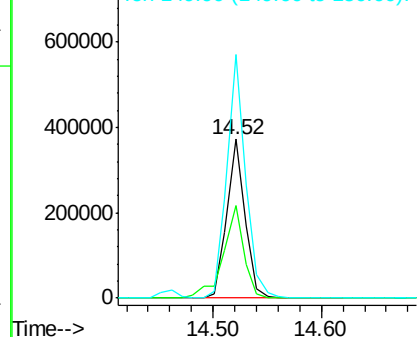
150 153.4 0.0 314.8

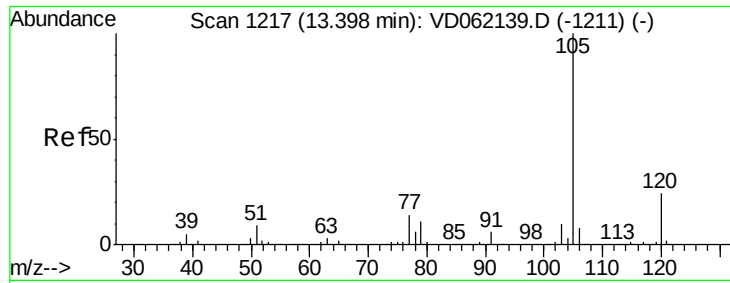


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 18.068 ug/l

RT: 13.41 min Scan# 1218

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

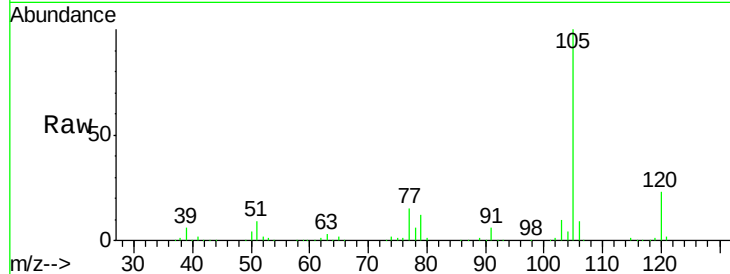
VD0516SBS01

Tot Ion:105 Resp: 471540

Ion Ratio Lower Upper

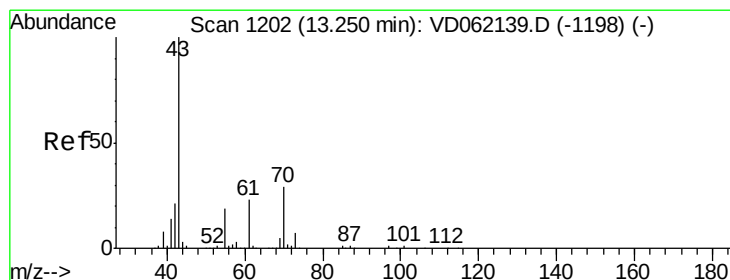
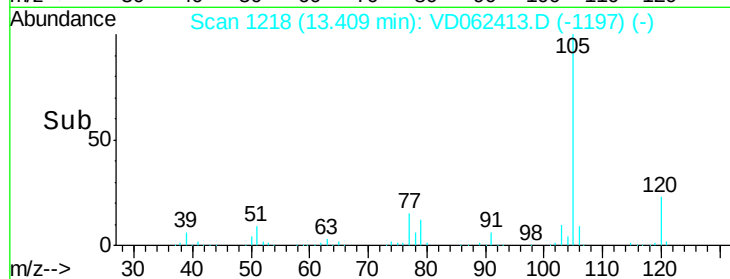
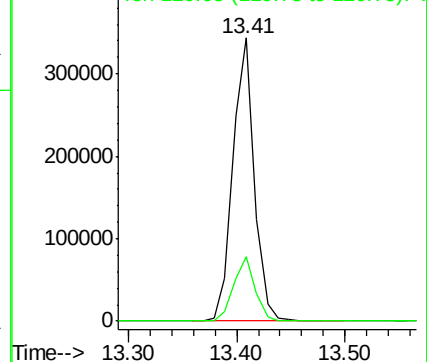
105 100

120 22.7 12.0 36.1



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 15.769 ug/l

RT: 13.27 min Scan# 1204

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Tgt Ion: 43 Resp: 107897

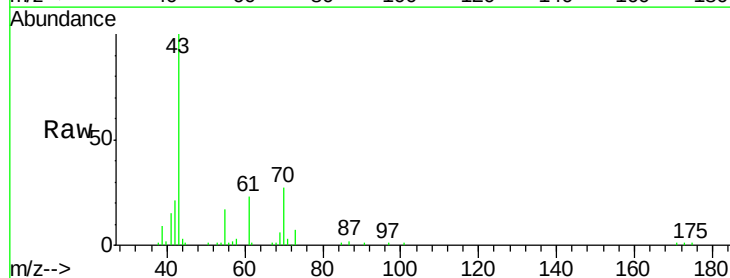
Ion Ratio Lower Upper

43 100

70 27.0 24.2 36.4

55 17.4 16.0 24.0

61 22.7 21.6 32.4

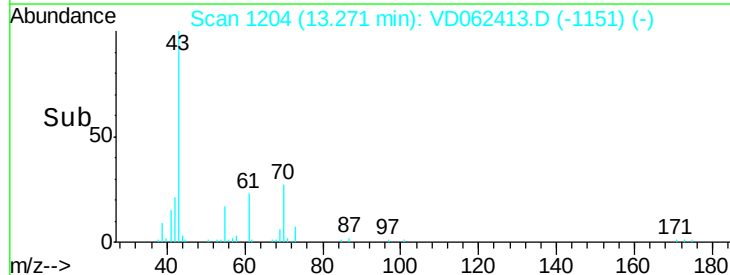
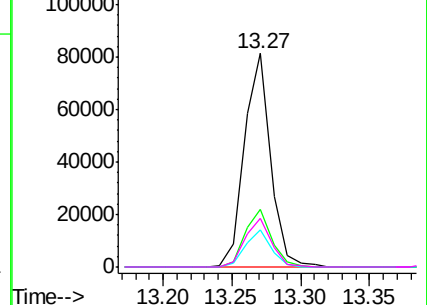


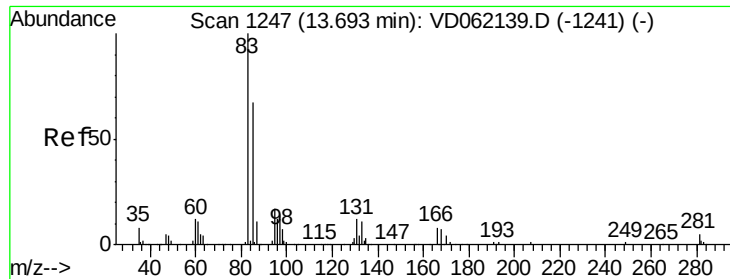
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#75

1,1,2,2-Tetrachloroethane

Concen: 15.754 ug/l

RT: 13.70 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBS01

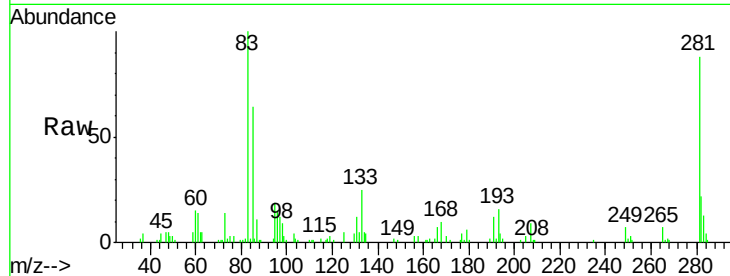
Tot Ion: 83 Resp: 77832

Ion Ratio Lower Upper

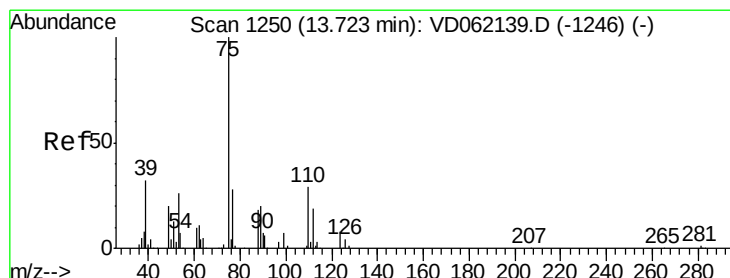
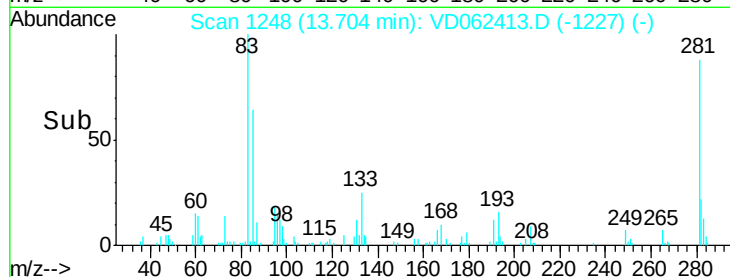
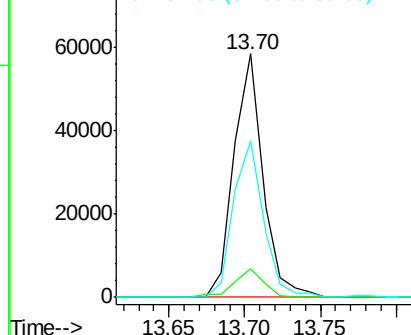
83 100

131 11.9 5.0 14.9

85 64.5 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: 15.631 ug/l

RT: 13.73 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD062413.D

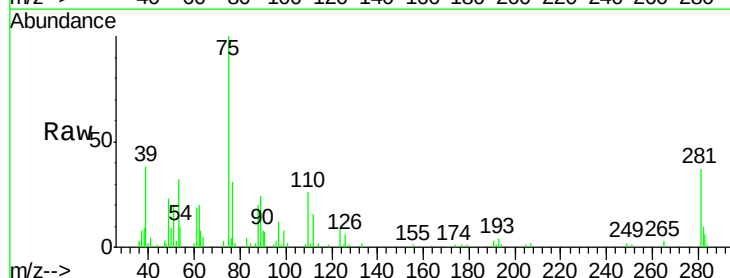
Acq: 16 May 2019 13:13

Tgt Ion: 75 Resp: 80875

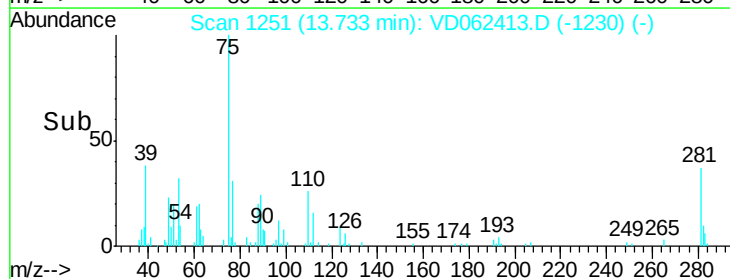
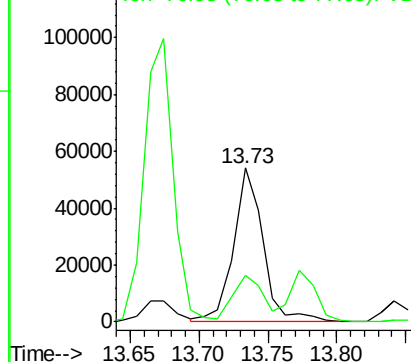
Ion Ratio Lower Upper

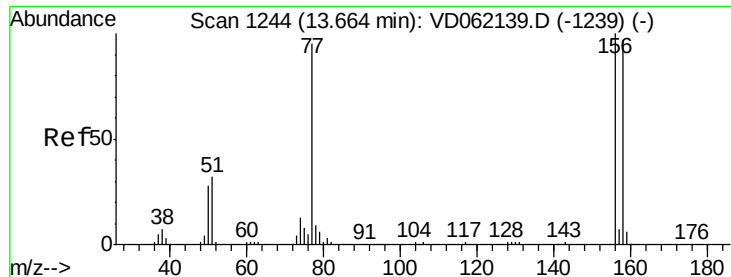
75 100

77 30.6 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: 16.861 ug/l

RT: 13.67 min Scan# 1245

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

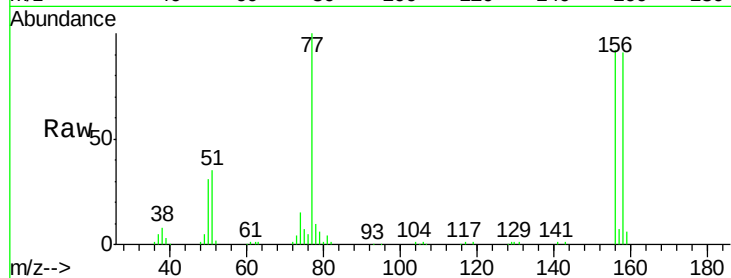
Tot Ion:156 Resp: 123180

Ion Ratio Lower Upper

156 100

77 108.1 53.1 159.4

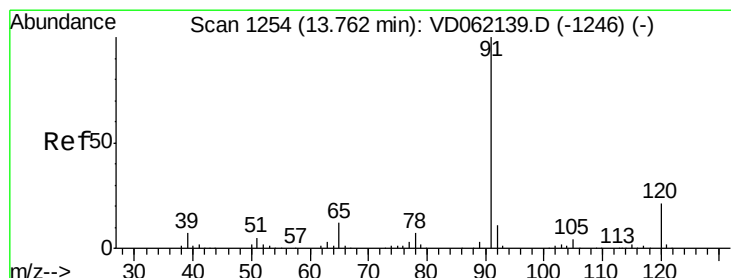
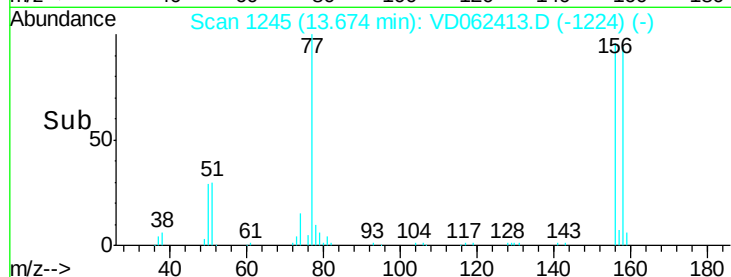
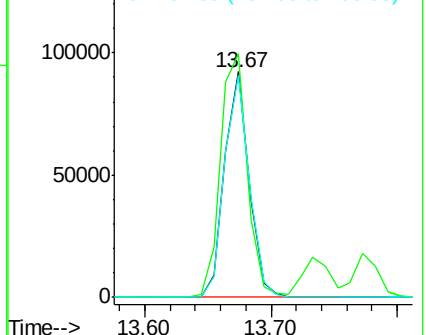
158 98.7 49.4 148.0



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: 17.001 ug/l

RT: 13.77 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD062413.D

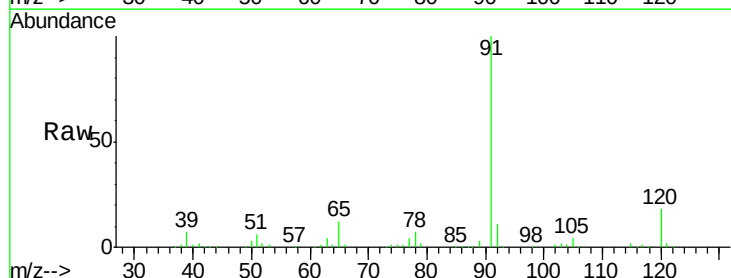
Acq: 16 May 2019 13:13

Tgt Ion: 91 Resp: 529259

Ion Ratio Lower Upper

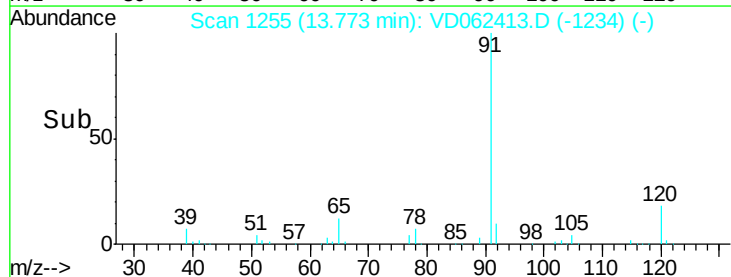
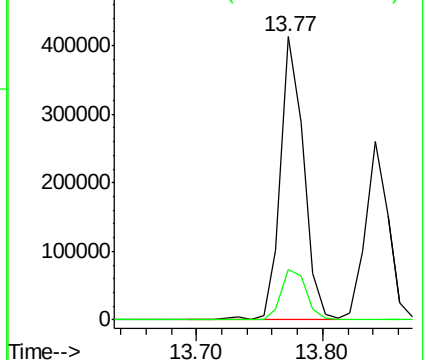
91 100

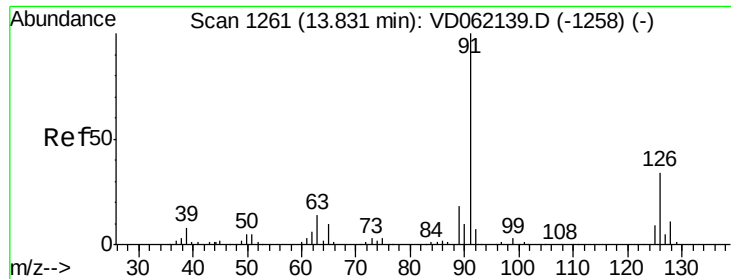
120 17.9 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V





#79

2-Chlorotoluene

Concen: 18.092 ug/l

RT: 13.84 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

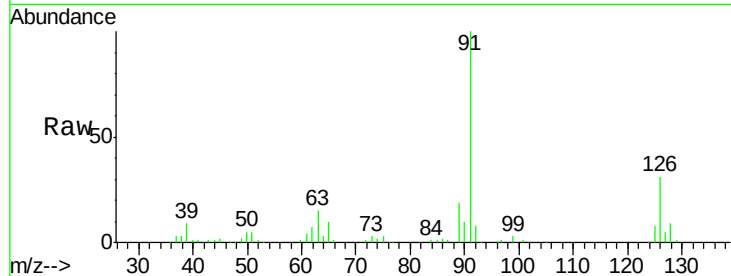
VD0516SBSD01

Tot Ion: 91 Resp: 322570

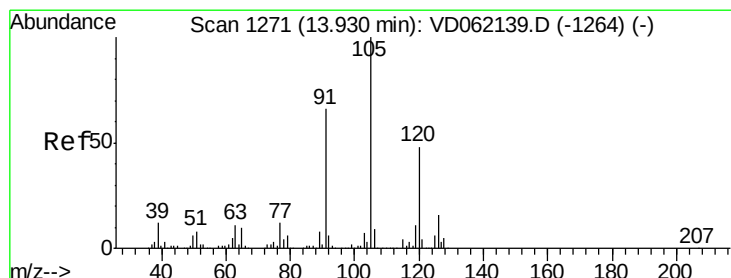
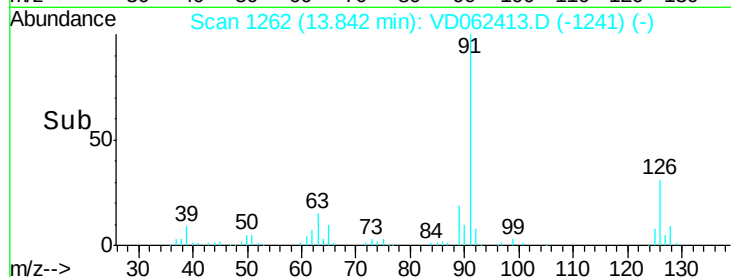
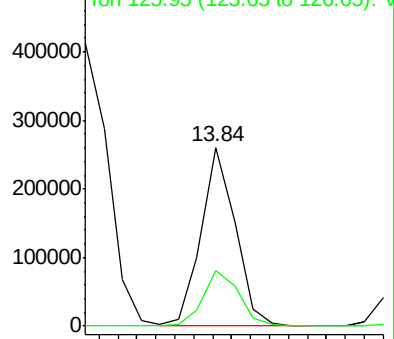
Ion Ratio Lower Upper

91 100

126 30.8 18.6 55.8



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 16.704 ug/l

RT: 13.94 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VD062413.D

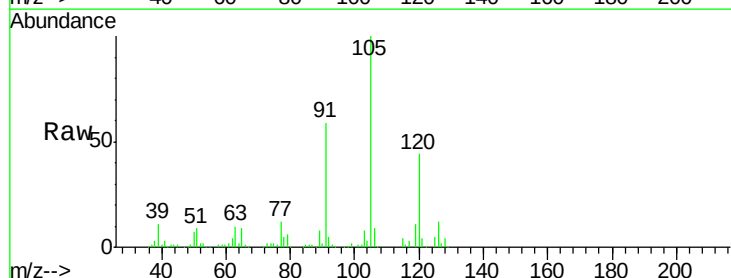
Acq: 16 May 2019 13:13

Tgt Ion: 105 Resp: 367084

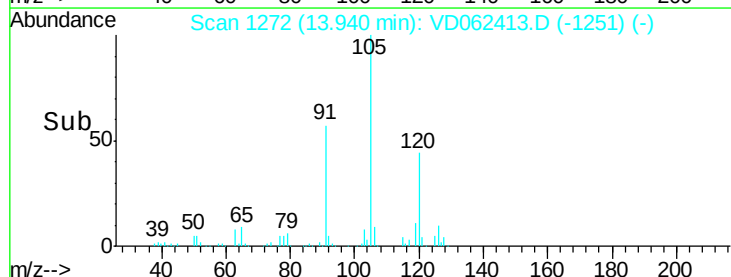
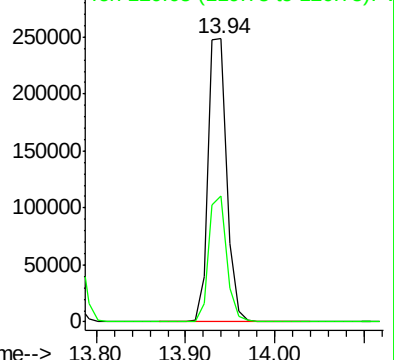
Ion Ratio Lower Upper

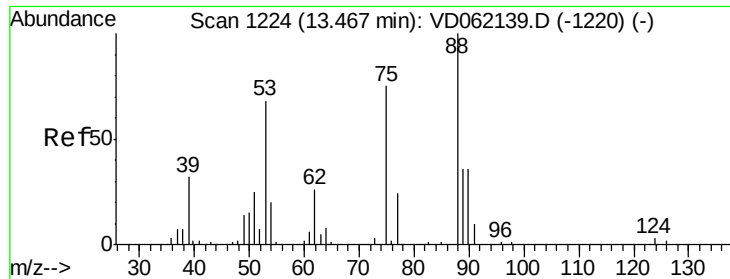
105 100

120 44.3 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

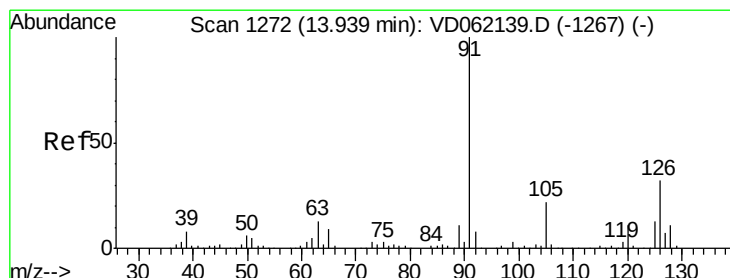
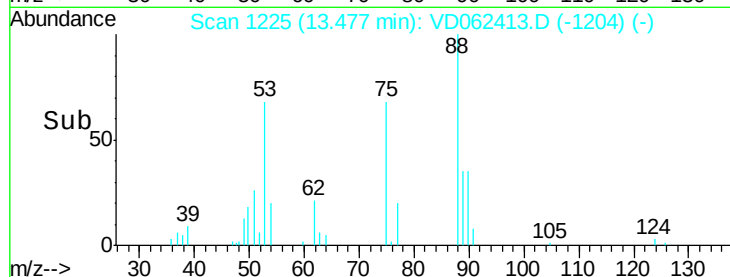
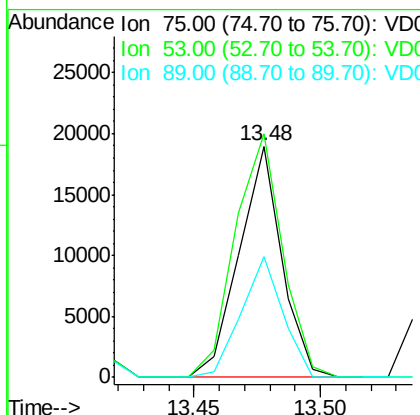
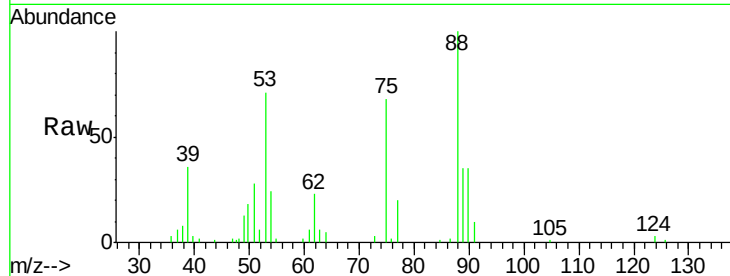




#81
trans-1,4-Dichloro-2-butene
Concen: 15.292 ug/l
RT: 13.48 min Scan# 1225
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

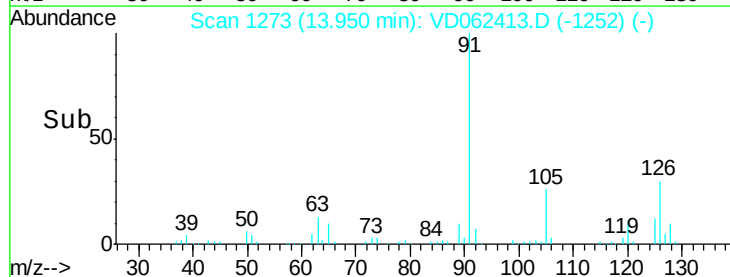
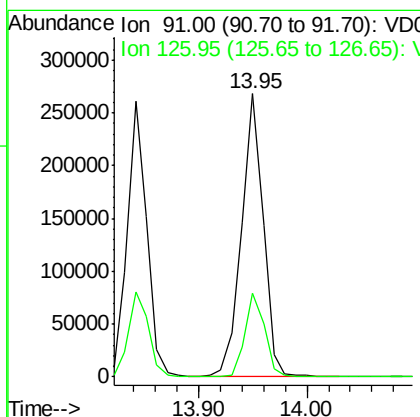
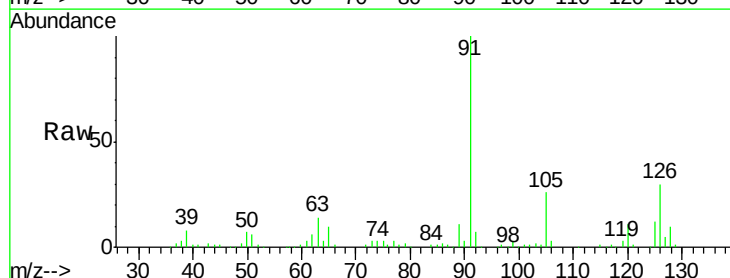
Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

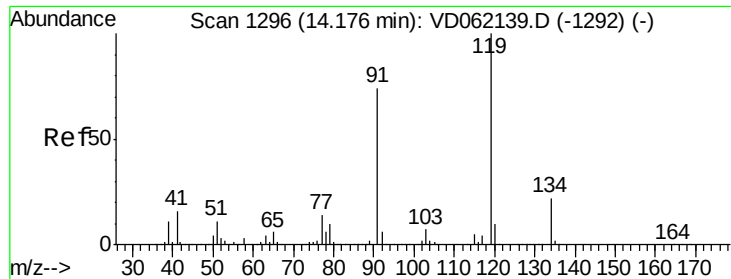
Tot Ion: 75 Resp: 22337
Ion Ratio Lower Upper
75 100
53 105.3 65.8 98.8#
89 52.2 35.0 52.6



#82
4-Chlorotoluene
Concen: 17.748 ug/l
RT: 13.95 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion: 91 Resp: 372364
Ion Ratio Lower Upper
91 100
126 29.7 19.1 57.5





#83

tert-Butylbenzene

Concen: 17.181 ug/l

RT: 14.20 min Scan# 1298

Delta R.T. 0.02 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBSD01

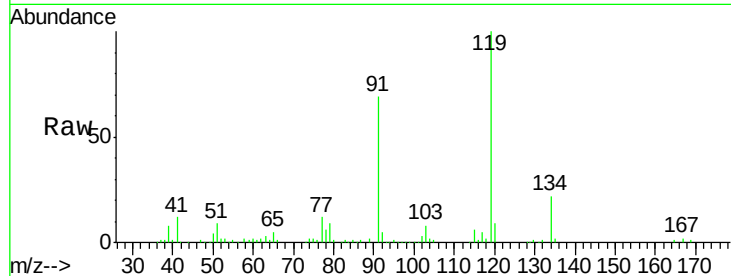
Tot Ion:119 Resp: 424391

Ion Ratio Lower Upper

119 100

91 69.0 34.2 102.6

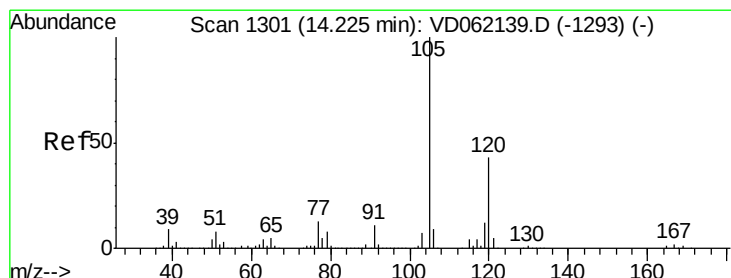
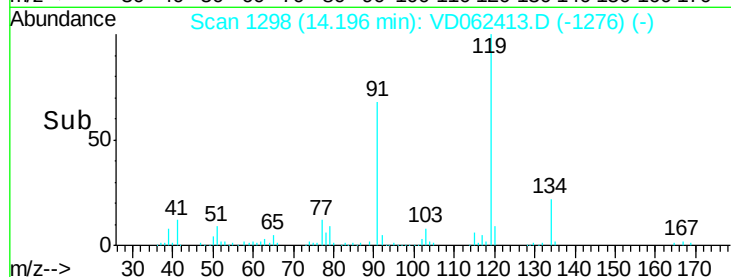
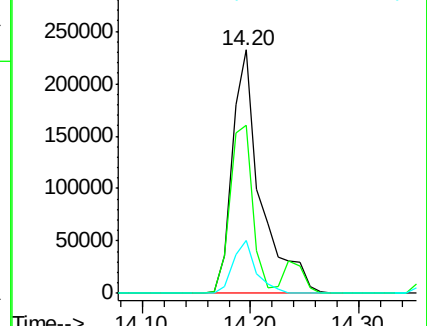
134 21.8 12.0 36.0



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: 17.795 ug/l

RT: 14.25 min Scan# 1303

Delta R.T. 0.02 min

Lab File: VD062413.D

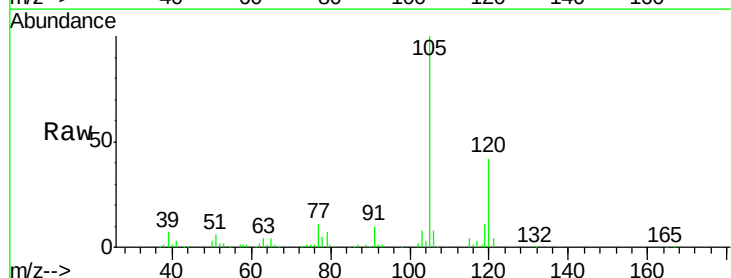
Acq: 16 May 2019 13:13

Tgt Ion:105 Resp: 392428

Ion Ratio Lower Upper

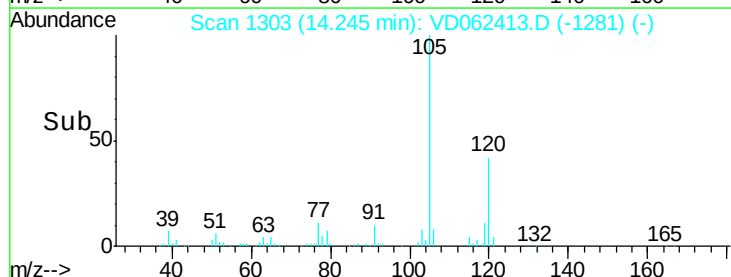
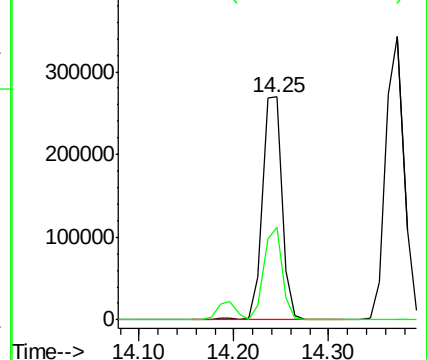
105 100

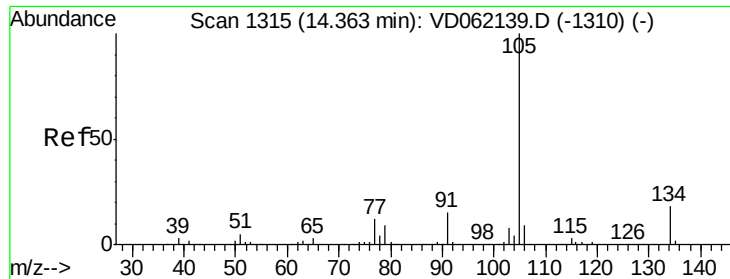
120 41.8 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 17.214 ug/l

RT: 14.37 min Scan# 1316

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

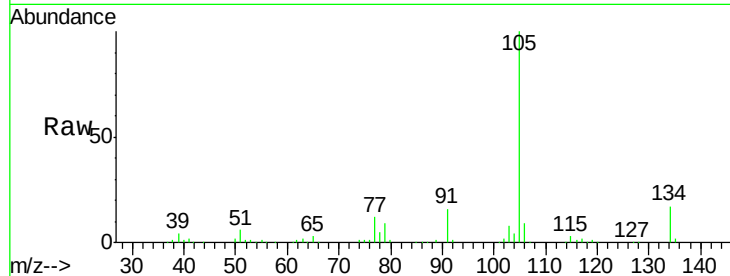
VD0516SBSD01

Tot Ion:105 Resp: 466202

Ion Ratio Lower Upper

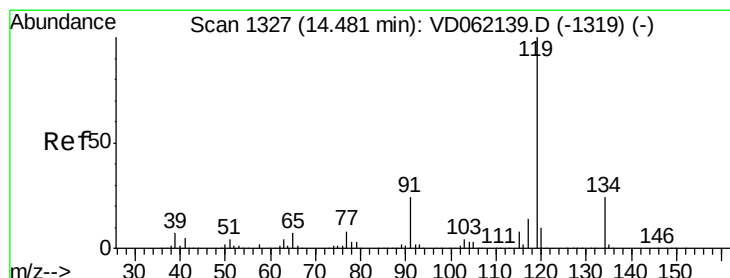
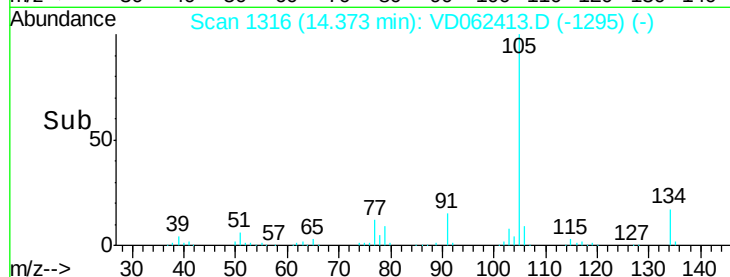
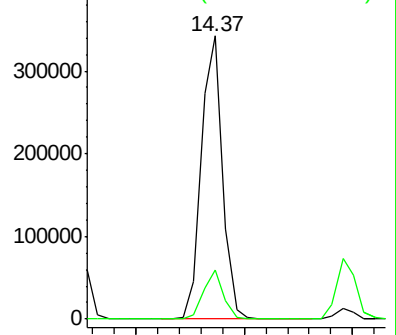
105 100

134 17.4 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 16.985 ug/l

RT: 14.49 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

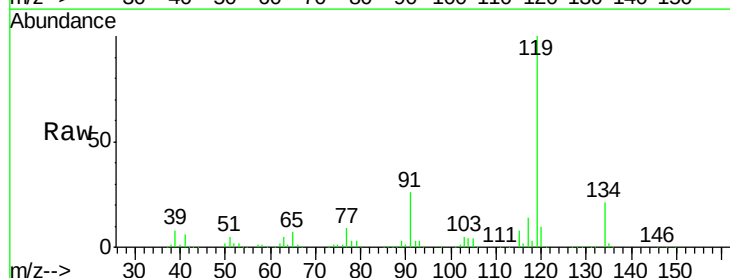
Tgt Ion:119 Resp: 410984

Ion Ratio Lower Upper

119 100

134 21.4 12.8 38.3

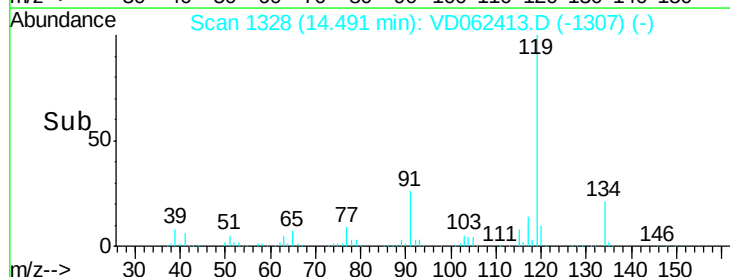
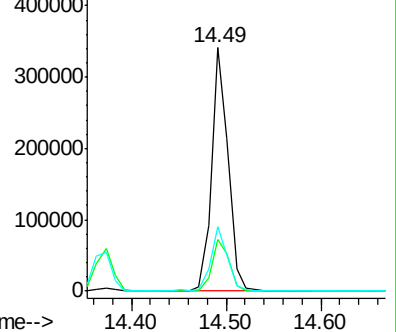
91 26.3 10.7 32.1

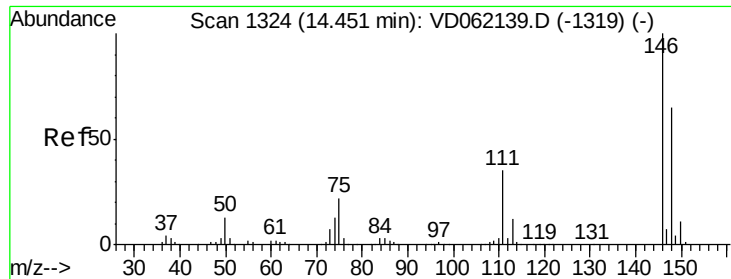


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

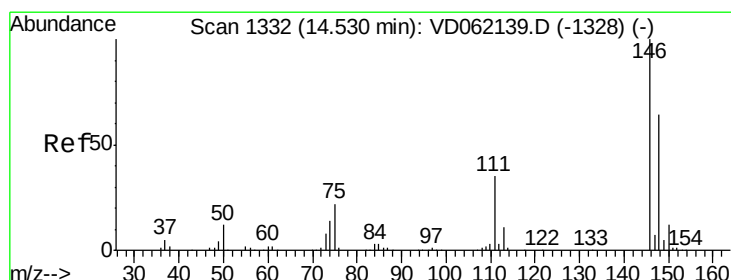
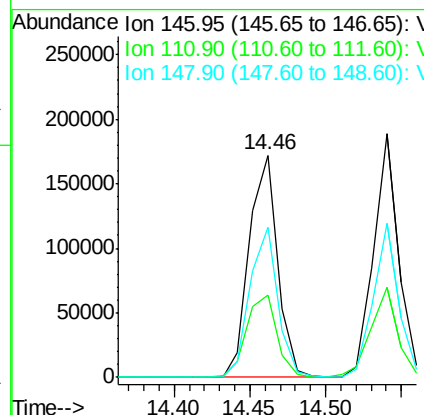
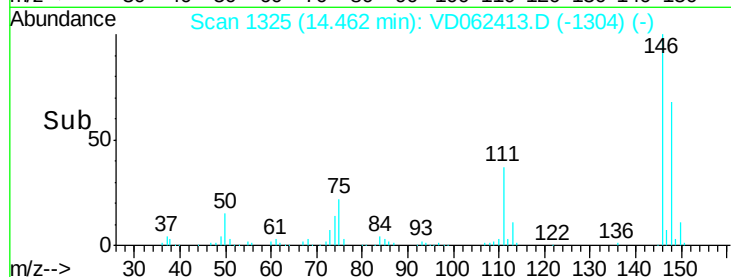
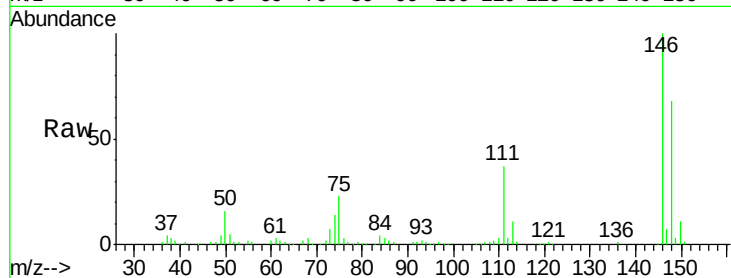




#87
 1,3-Dichlorobenzene
 Concen: 16.893 ug/l
 RT: 14.46 min Scan# 1325
 Delta R.T. 0.01 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

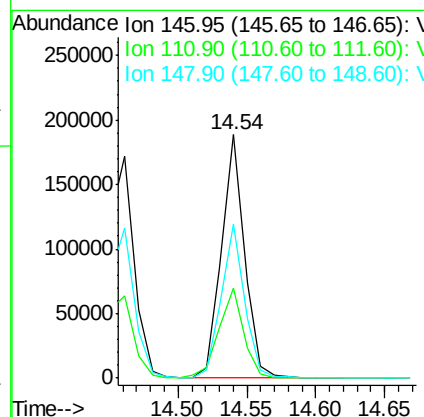
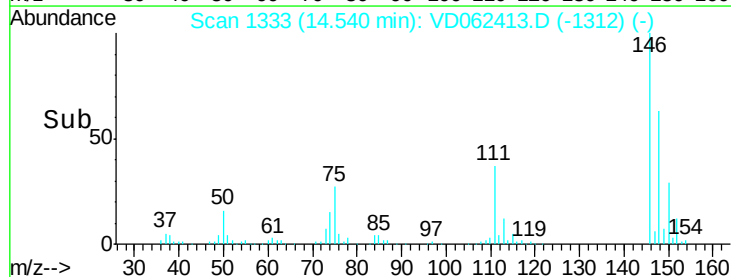
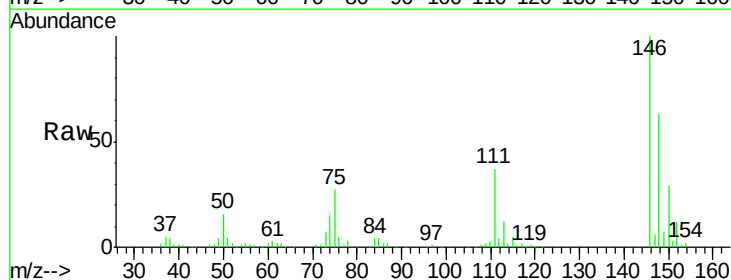
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBS01

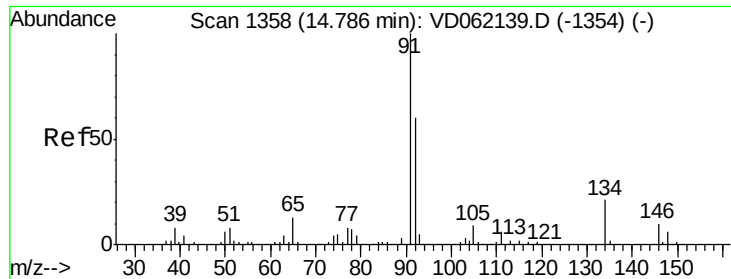
Tot Ion:146 Resp: 225447
 Ion Ratio Lower Upper
 146 100
 111 37.0 20.0 60.0
 148 67.7 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 16.635 ug/l
 RT: 14.54 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion:146 Resp: 218134
 Ion Ratio Lower Upper
 146 100
 111 37.0 20.2 60.5
 148 63.1 32.0 96.2





#89

n-Butylbenzene

Concen: 17.951 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD062413.D

Acq: 16 May 2019 13:13

Instrument :

MSVOA_D

ClientSampleId :

VD0516SBS01

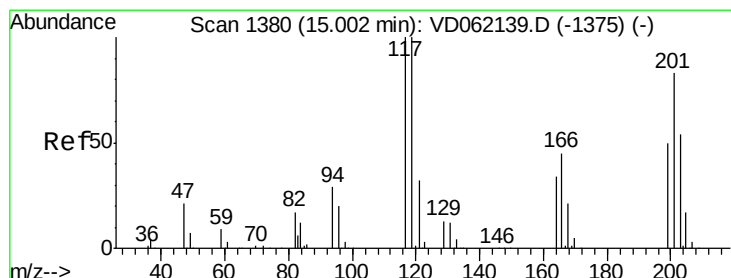
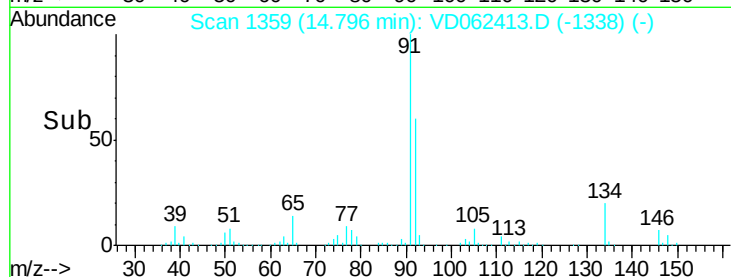
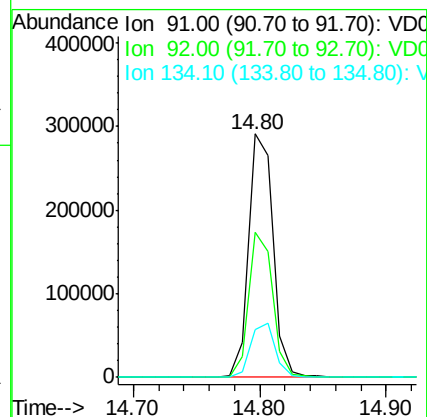
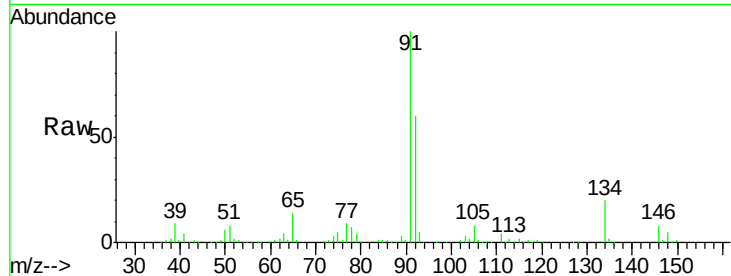
Tot Ion: 91 Resp: 389853

Ion Ratio Lower Upper

91 100

92 59.5 30.3 91.0

134 19.6 14.5 43.6



#90

Hexachloroethane

Concen: 16.803 ug/l

RT: 15.01 min Scan# 1381

Delta R.T. 0.01 min

Lab File: VD062413.D

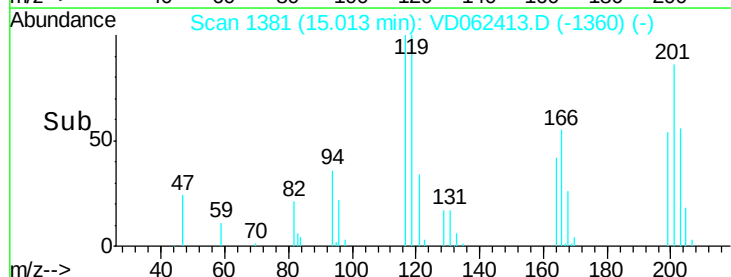
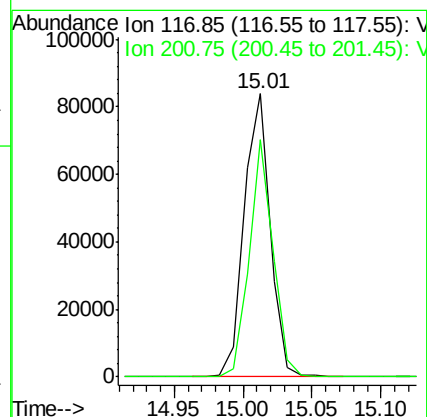
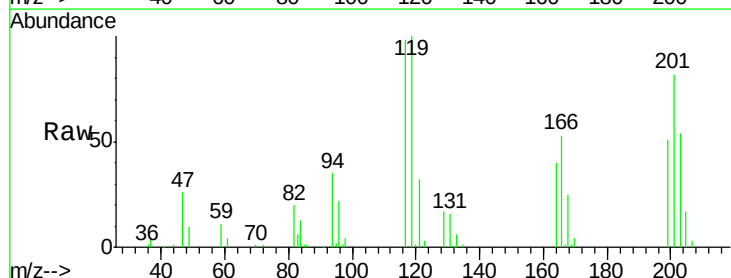
Acq: 16 May 2019 13:13

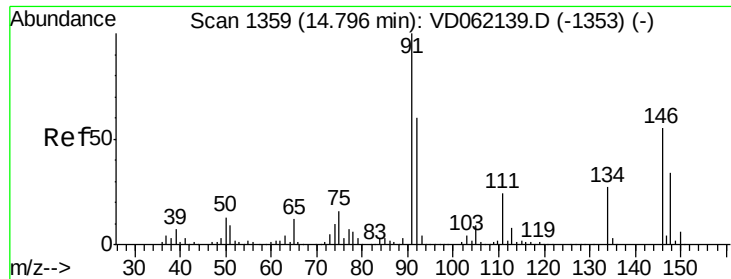
Tgt Ion: 117 Resp: 110564

Ion Ratio Lower Upper

117 100

201 83.9 30.2 90.6

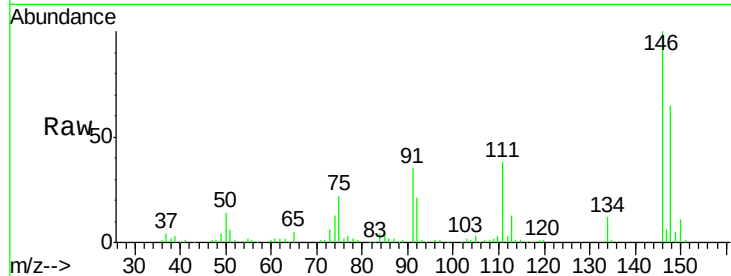




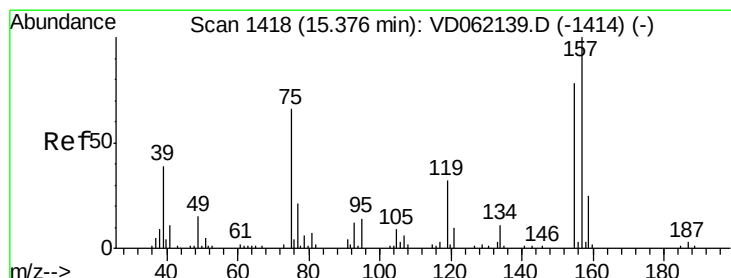
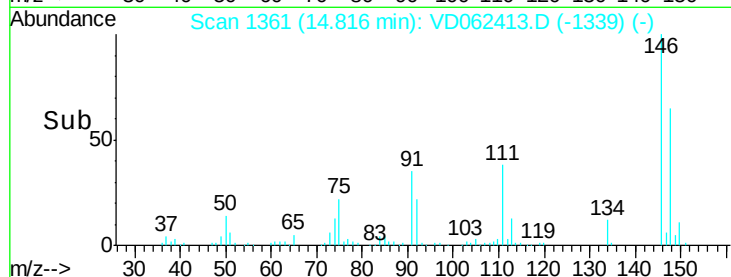
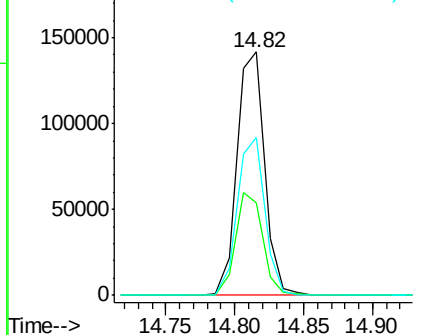
#91
 1,2-Dichlorobenzene
 Concen: 18.034 ug/l
 RT: 14.82 min Scan# 1361
 Delta R.T. 0.02 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

Tot Ion:146 Resp: 198205
 Ion Ratio Lower Upper
 146 100
 111 37.9 20.0 59.9
 148 64.6 32.3 96.8

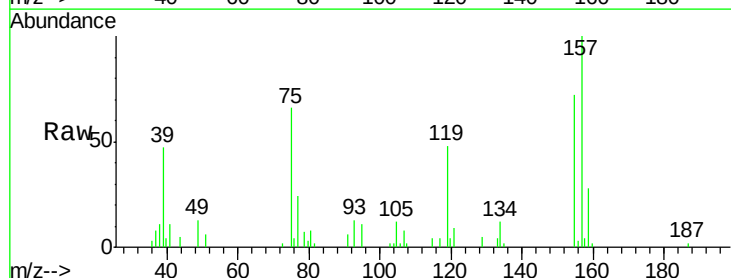


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

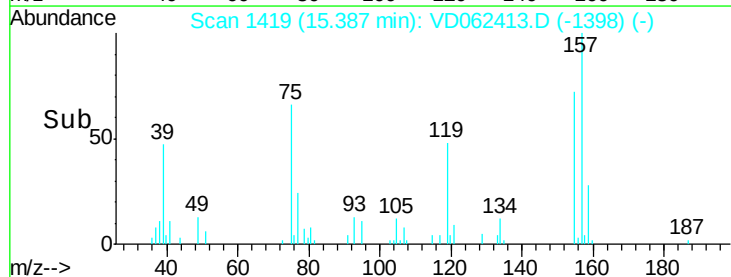
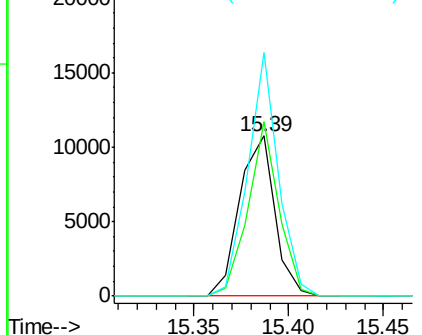


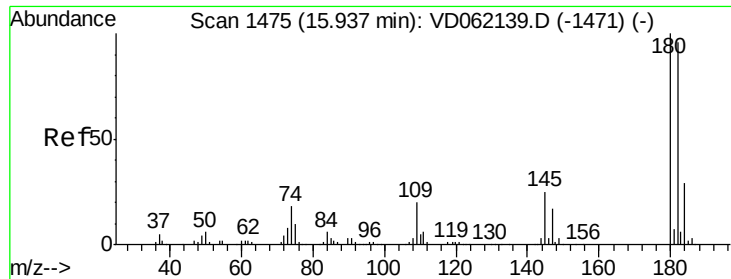
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 17.009 ug/l
 RT: 15.39 min Scan# 1419
 Delta R.T. 0.01 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion: 75 Resp: 13794
 Ion Ratio Lower Upper
 75 100
 155 109.1 55.3 165.8
 157 152.2 67.8 203.2



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

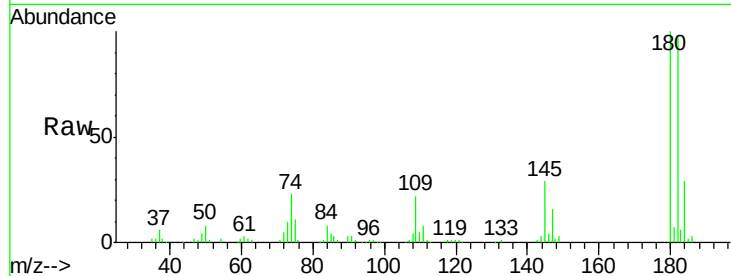




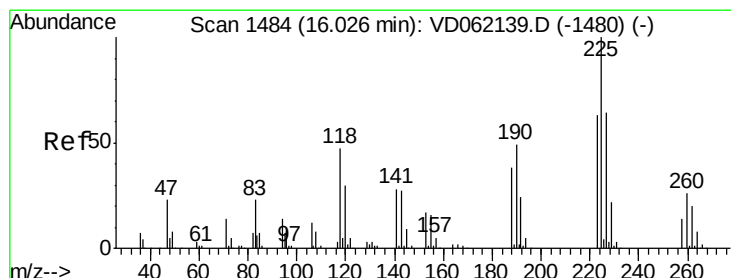
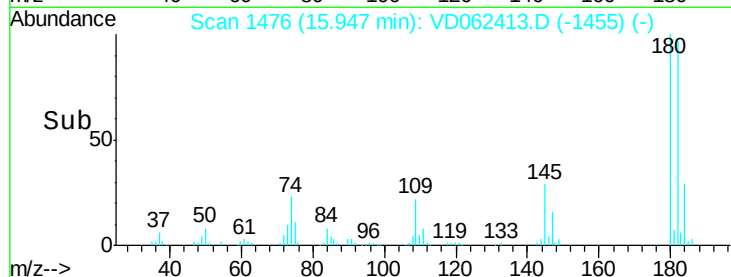
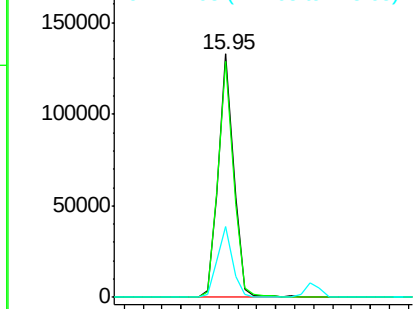
#93
 1,2,4-Trichlorobenzene
 Concen: 19.002 ug/l
 RT: 15.95 min Scan# 1476
 Delta R.T. 0.01 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0516SBSD01

Tot Ion:180 Resp: 152014
 Ion Ratio Lower Upper
 180 100
 182 96.7 49.3 147.8
 145 29.2 16.2 48.6

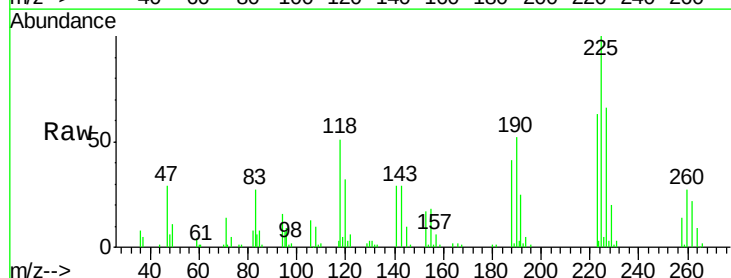


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

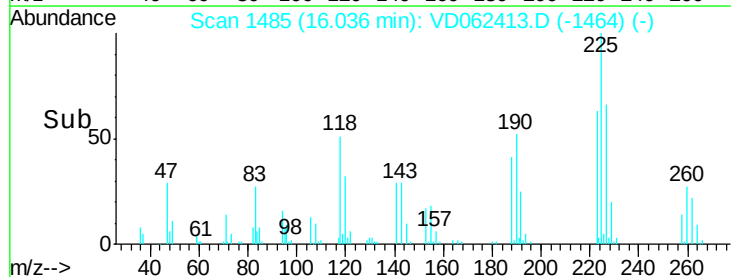
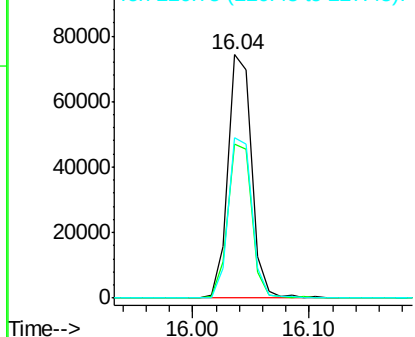


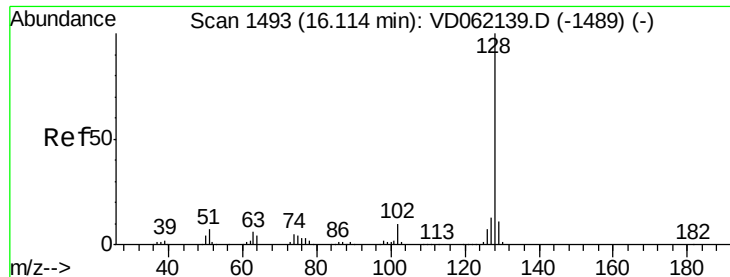
#94
 Hexachlorobutadiene
 Concen: 17.562 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD062413.D
 Acq: 16 May 2019 13:13

Tgt Ion:225 Resp: 104495
 Ion Ratio Lower Upper
 225 100
 223 63.3 30.6 92.0
 227 65.8 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

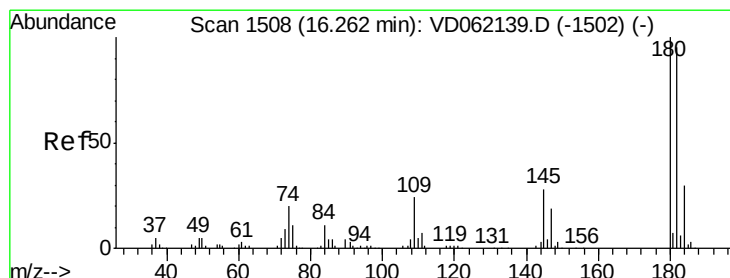
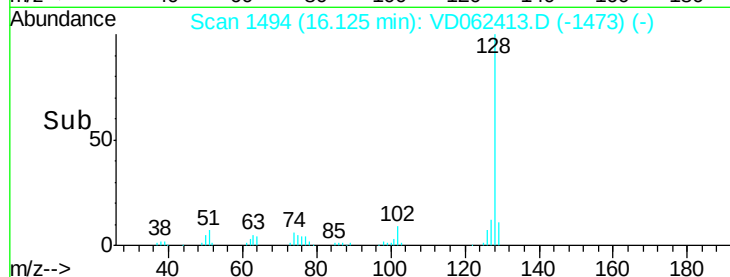
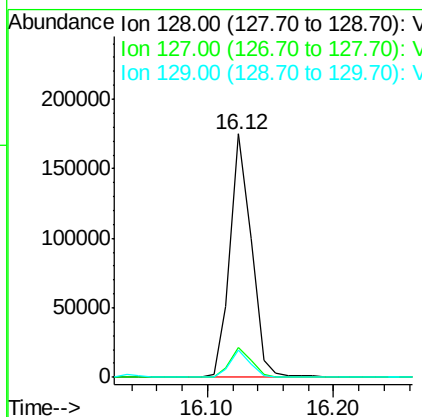
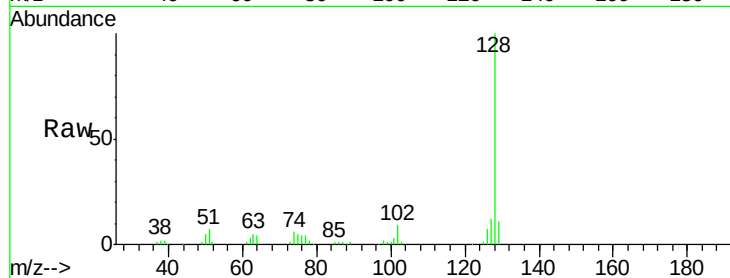




#95
Naphthalene
Concen: 18.317 ug/l
RT: 16.12 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Instrument :
MSVOA_D
ClientSampleId :
VD0516SBSD01

Tot Ion:128 Resp: 204583
Ion Ratio Lower Upper
128 100
127 12.4 9.8 14.8
129 11.5 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 23.668 ug/l
RT: 16.27 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VD062413.D
Acq: 16 May 2019 13:13

Tgt Ion:180 Resp: 119045
Ion Ratio Lower Upper
180 100
182 96.9 47.0 141.0
145 30.8 17.0 51.0

