

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD053119\
 Data File : VD062565.D
 Acq On : 31 May 2019 15:53
 Operator : VA/AP
 Sample : K3097-02RE
 Misc : 5.09g/5ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

Quant Time: May 31 23:27:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D053019S.M
 Quant Title : SW846 8260
 QLast Update : Fri May 31 02:08:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.08	168	4384	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	5356	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	4143	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	1478	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	1373	26.71	ug/l	0.00
Spiked Amount			Recovery	=	53.42%	
35) Dibromofluoromethane	6.93	113	1893	38.79	ug/l	0.00
Spiked Amount			Recovery	=	77.58%	
50) Toluene-d8	10.42	98	4827	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	
62) 4-Bromofluorobenzene	13.56	95	1897	39.34	ug/l	0.00
Spiked Amount			Recovery	=	78.68%	

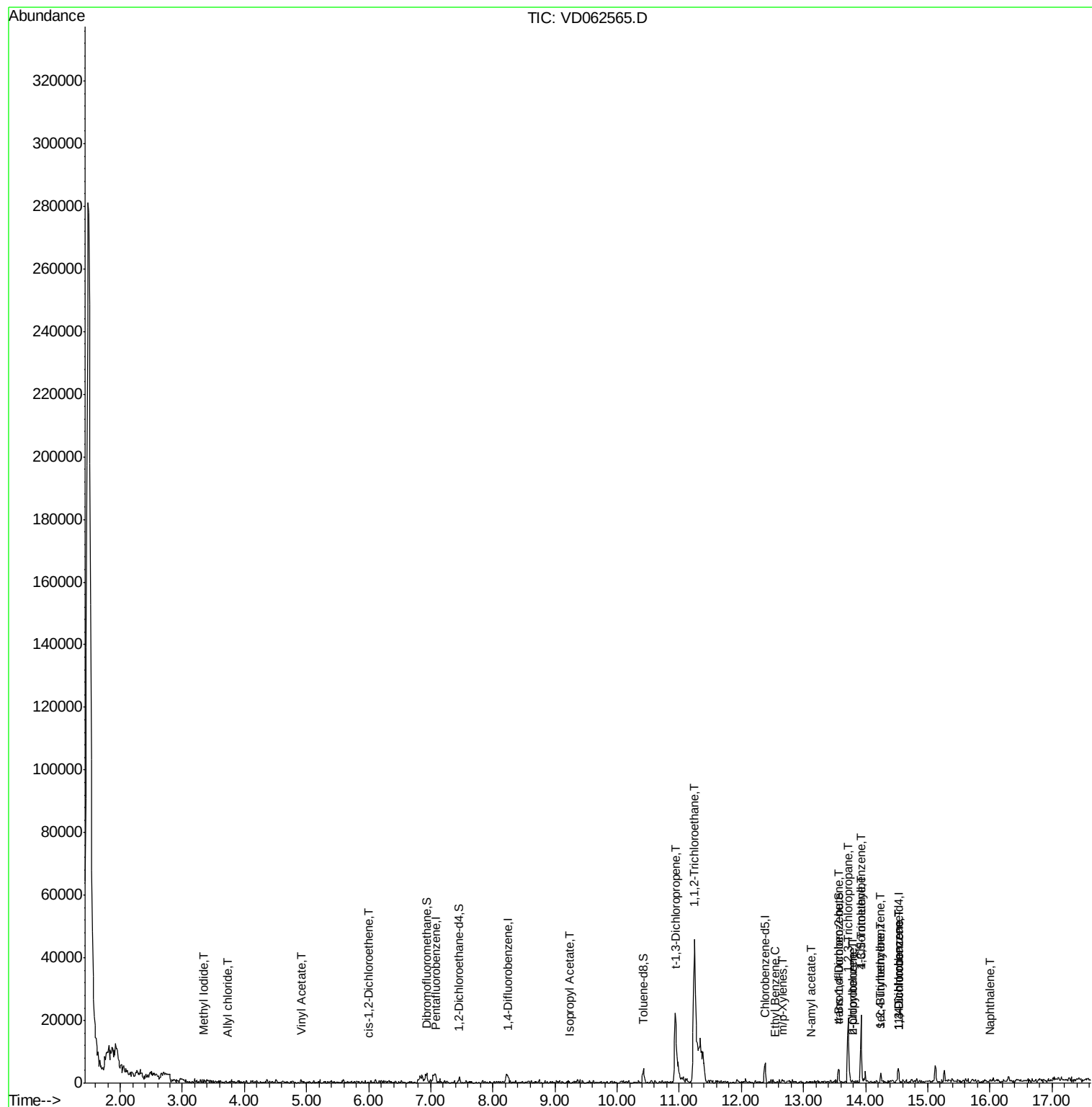
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.34	142	225	4.091	ug/l #	27
14) Allyl chloride	3.73	41	256	4.780	ug/l #	7
23) Vinyl Acetate	4.92	43	203	3.059	ug/l #	80
27) cis-1,2-Dichloroethene	6.00	96	189	4.725	ug/l	1
43) Isopropyl Acetate	9.23	43	179	6.398	ug/l #	50
53) t-1,3-Dichloropropene	10.93	75	421	8.392	ug/l #	1
55) 1,1,2-Trichloroethane	11.23	97	288	12.290	ug/l #	16
67) Ethyl Benzene	12.55	91	630	4.260	ug/l #	47
68) m/p-Xylenes	12.67	106	208	4.066	ug/l #	23
74) N-amyl acetate	13.12	43	207	8.332	ug/l #	51
76) 1,2,3-Trichloropropane	13.72	75	208	11.730	ug/l #	42
78) n-propylbenzene	13.78	91	200	1.781	ug/l #	57
79) 2-Chlorotoluene	13.78	91	200	3.071	ug/l #	41
80) 1,3,5-Trimethylbenzene	13.93	105	392	4.708	ug/l #	34
81) trans-1,4-Dichloro-2-buten	13.57	75	717	141.117	ug/l #	5
82) 4-Chlorotoluene	13.94	91	255	3.271	ug/l #	41
84) 1,2,4-Trimethylbenzene	14.24	105	997	11.751	ug/l #	59
85) sec-Butylbenzene	14.24	105	997	10.130	ug/l #	60
87) 1,3-Dichlorobenzene	14.55	146	190	4.103	ug/l #	25
88) 1,4-Dichlorobenzene	14.55	146	190	4.094	ug/l #	26
95) Naphthalene	16.00	128	180	4.243	ug/l #	71

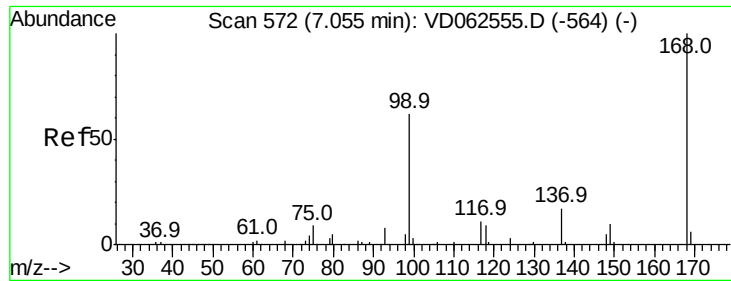
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 31 02:08:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 574

Delta R.T. 0.02 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

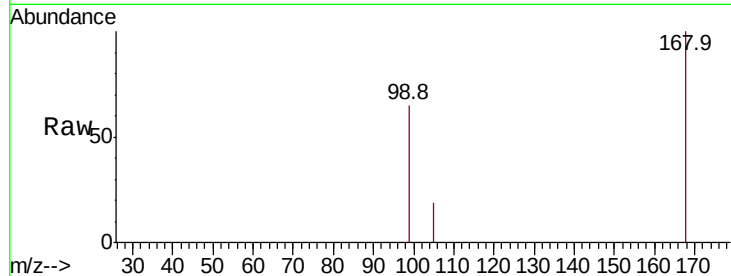
20190422-HR-2RE

Tot Ion:168 Resp: 4384

Ion Ratio Lower Upper

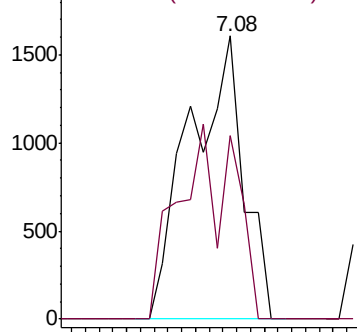
168 100

99 64.9 50.8 76.2

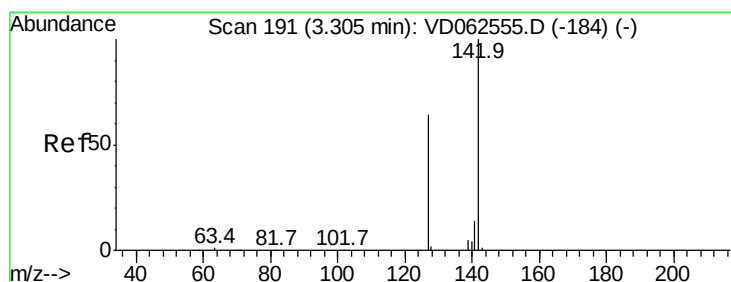
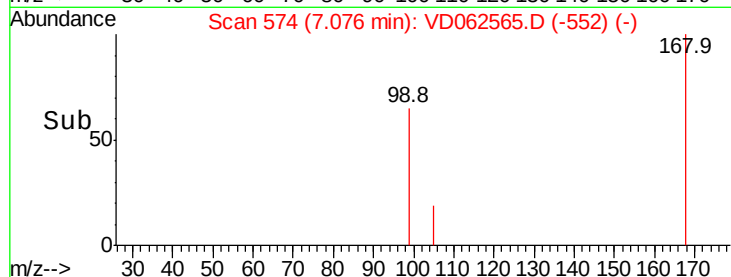


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V



Time-->



#10

Methyl Iodide

Concen: 4.091 ug/l

RT: 3.34 min Scan# 195

Delta R.T. 0.04 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

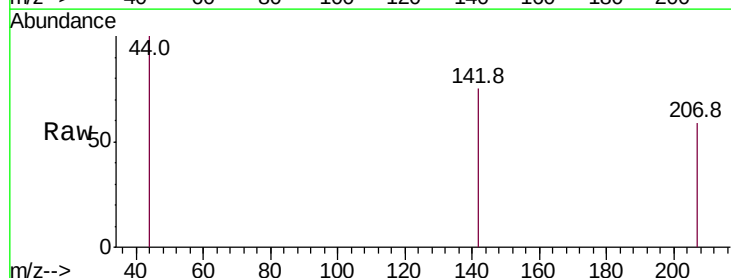
Tgt Ion:142 Resp: 225

Ion Ratio Lower Upper

142 100

127 0.0 51.2 76.8#

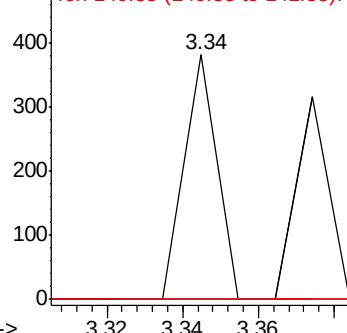
141 0.0 11.0 16.4#



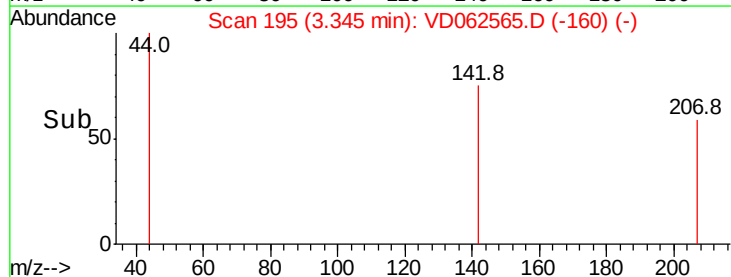
Abundance Ion 141.85 (141.55 to 142.55): V

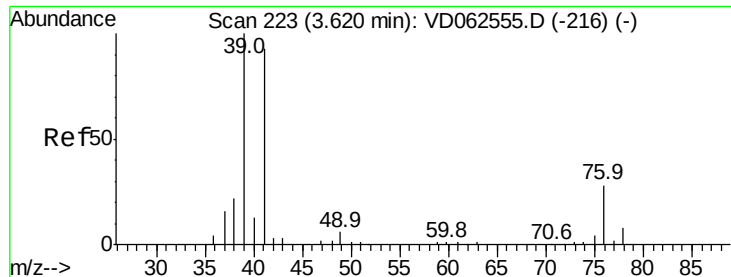
Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



Time-->

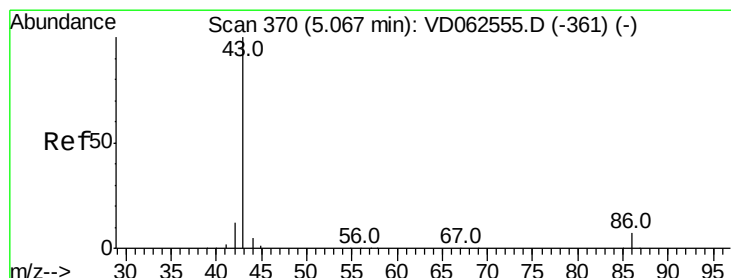
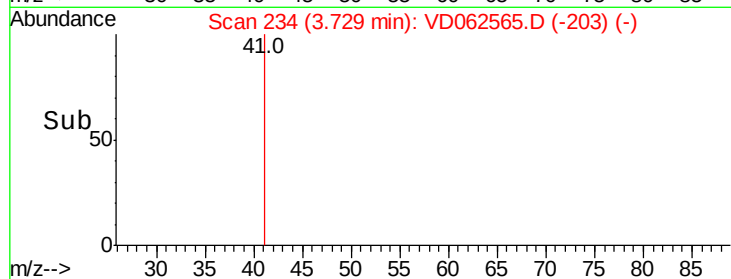
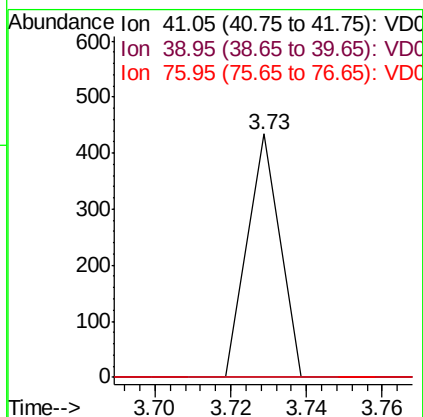
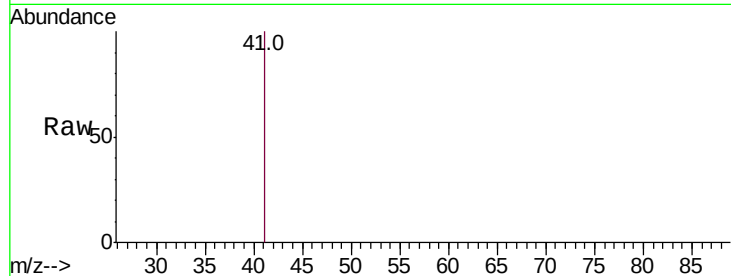




#14
 Allvl chloride
 Concen: 4.780 ug/l
 RT: 3.73 min Scan# 234
 Delta R.T. 0.11 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

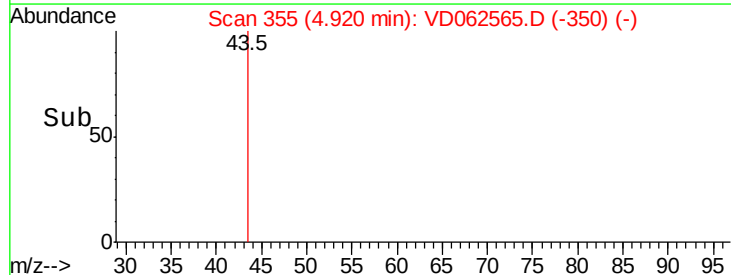
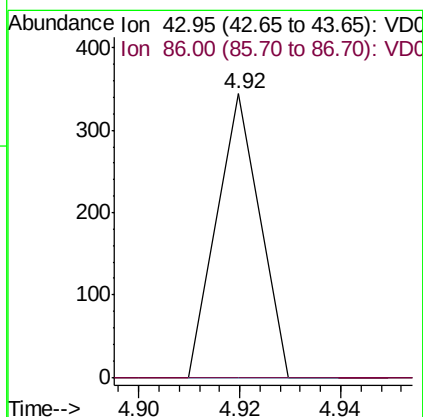
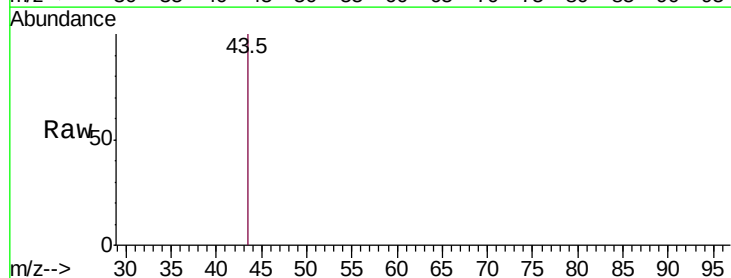
Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

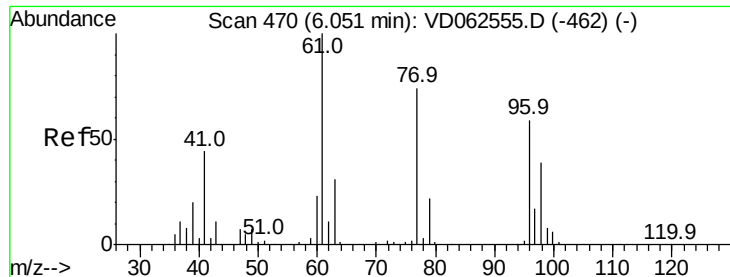
Tot Ion: 41 Resp: 256
 Ion Ratio Lower Upper
 41 100
 39 0.0 86.3 129.5#
 76 0.0 25.5 38.3#



#23
 Vinyl Acetate
 Concen: 3.059 ug/l
 RT: 4.92 min Scan# 355
 Delta R.T. -0.15 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Tgt Ion: 43 Resp: 203
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.5 8.3#



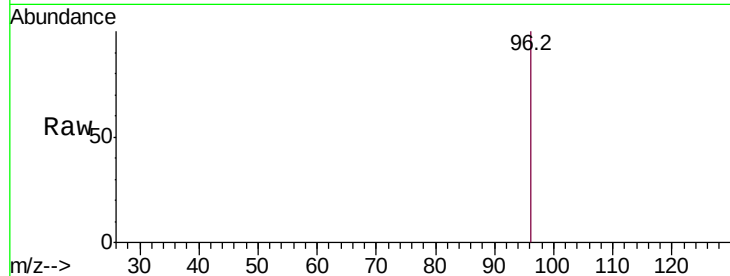


#27

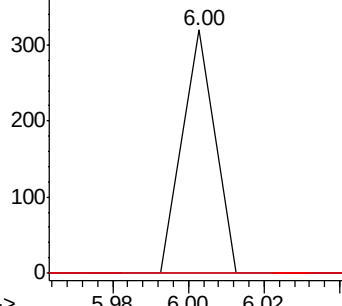
cis-1,2-Dichloroethene
 Concen: 4.725 ug/l
 RT: 6.00 min Scan# 465
 Delta R.T. -0.05 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

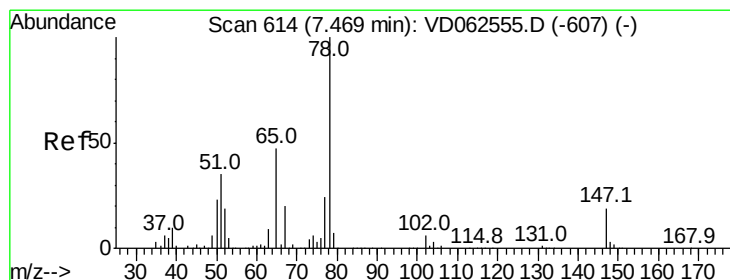
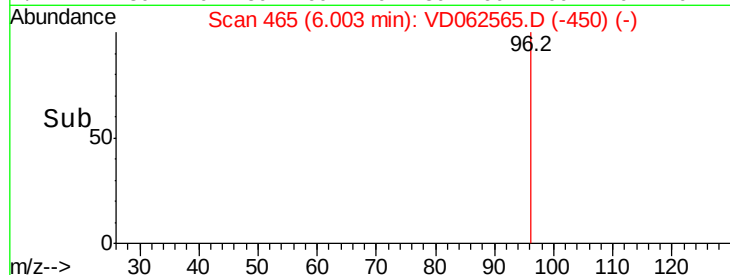
Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	342.4
98	0.0	0.0	134.6



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



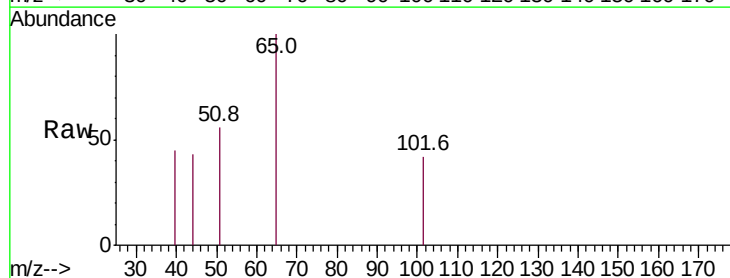
Time-->



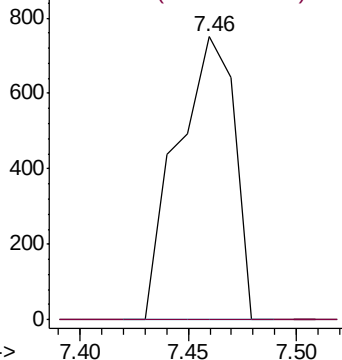
#33

1,2-Dichloroethane-d4
 Concen: 26.710 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. -0.01 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

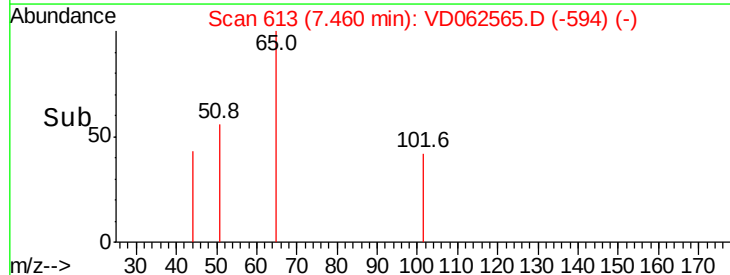
Tgt Ion	Ratio	Lower	Upper
65	100		
67	0.0	0.0	83.6

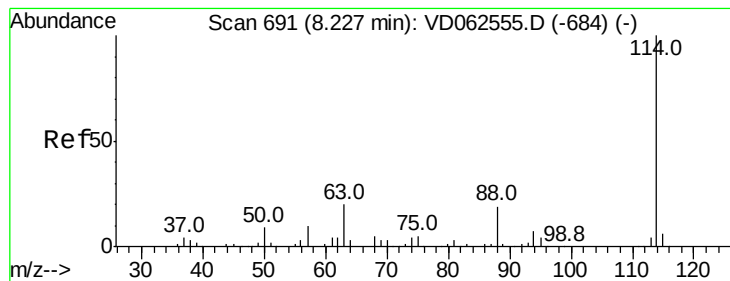


Abundance Ion 64.95 (64.65 to 65.65): VDC
 Ion 66.90 (66.60 to 67.60): VDC



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

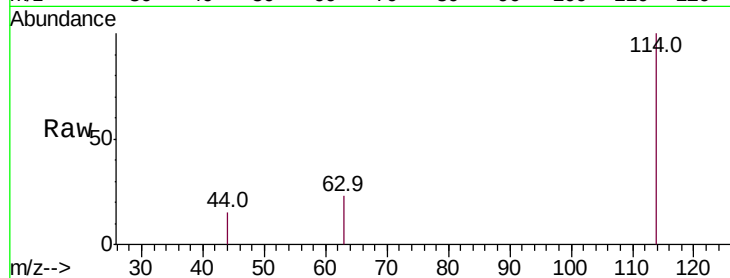
Tot Ion:114 Resp: 5356

Ion Ratio Lower Upper

114 100

63 22.6 0.0 40.6

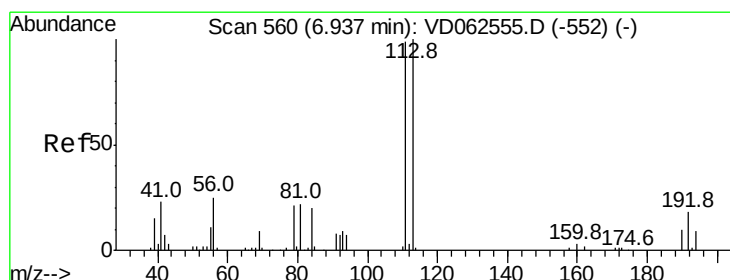
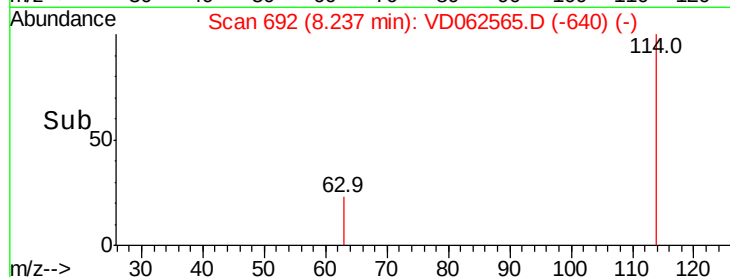
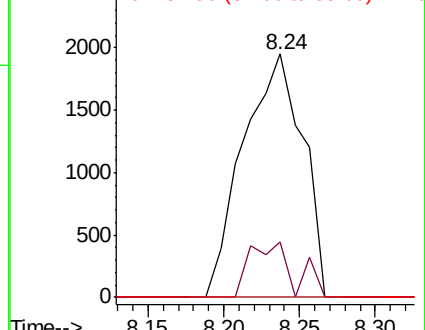
88 0.0 0.0 37.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 38.785 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.01 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

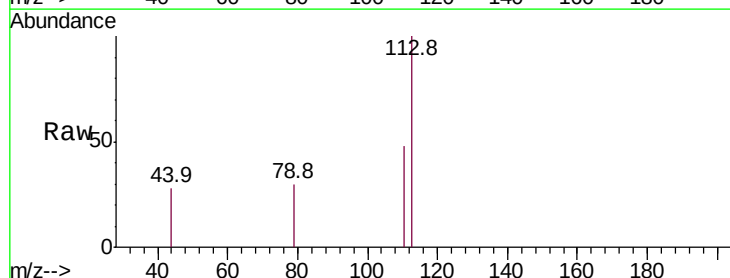
Tgt Ion:113 Resp: 1893

Ion Ratio Lower Upper

113 100

111 0.0 78.8 118.2#

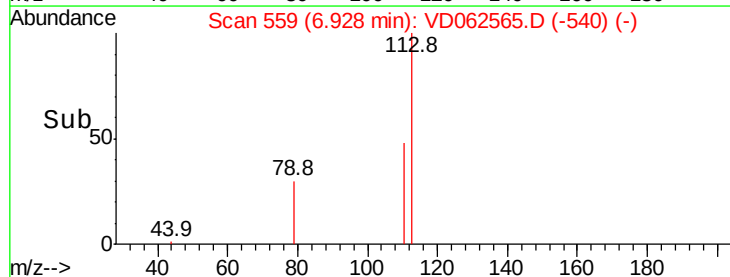
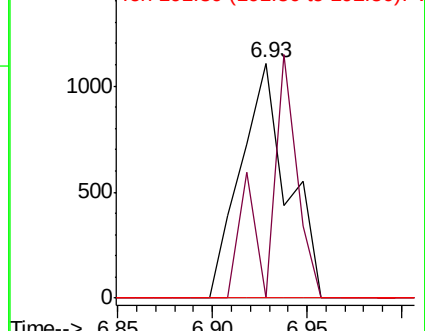
192 0.0 14.6 22.0#

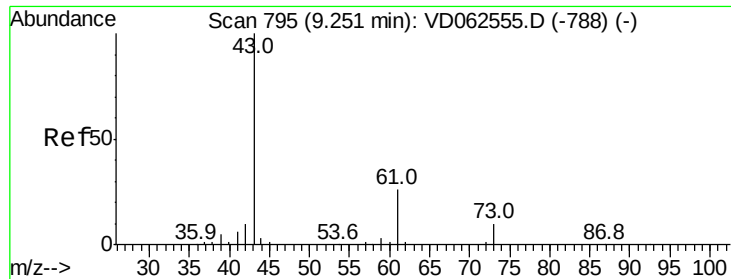


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#43

Isopropyl Acetate

Concen: 6.398 ug/l

RT: 9.23 min Scan# 793

Delta R.T. -0.02 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

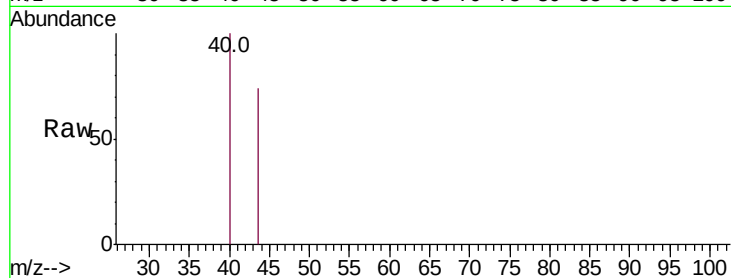
Tot Ion: 43 Resp: 179

Ion Ratio Lower Upper

43 100

61 0.0 20.5 30.7#

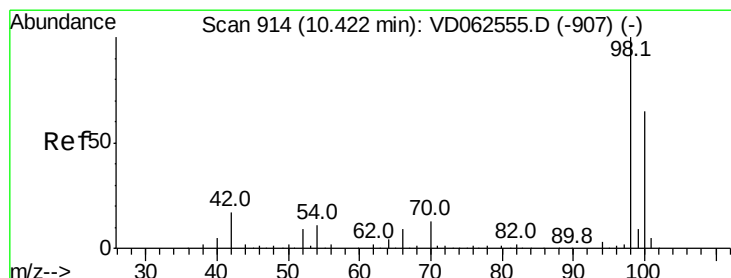
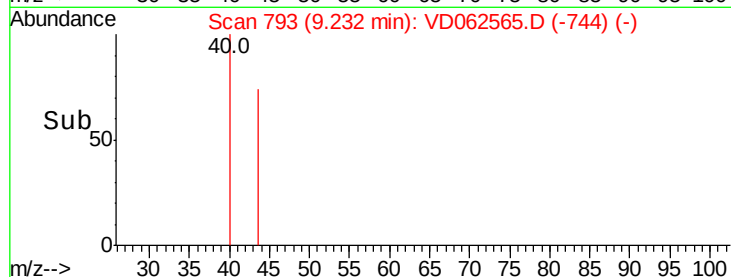
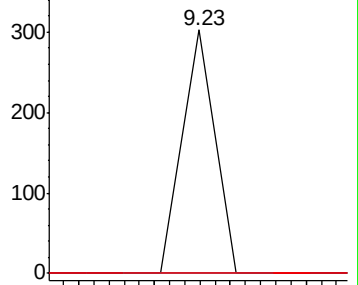
87 0.0 0.2 0.2#



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



#50

Toluene-d8

Concen: 45.138 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.00 min

Lab File: VD062565.D

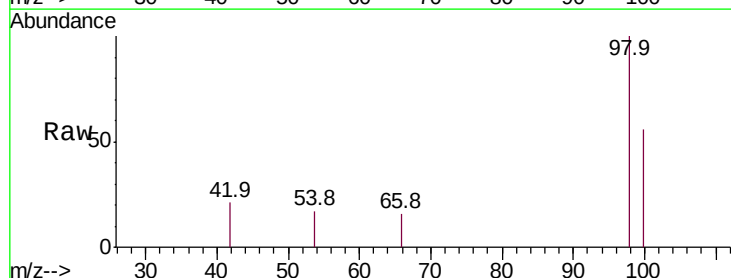
Acq: 31 May 2019 15:53

Tgt Ion: 98 Resp: 4827

Ion Ratio Lower Upper

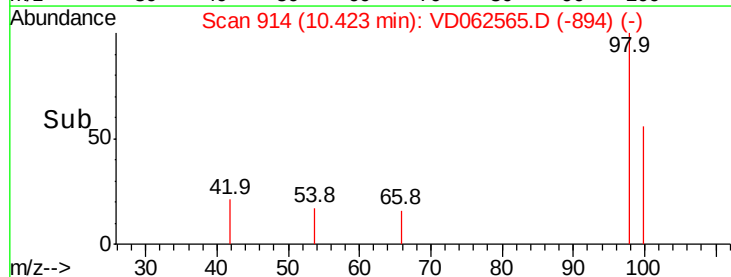
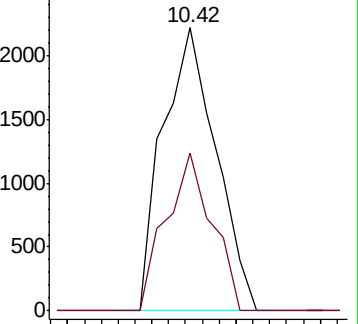
98 100

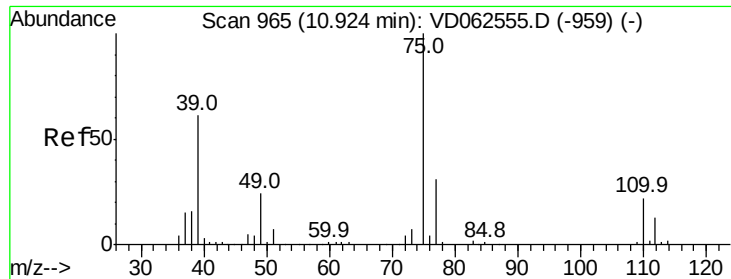
100 55.8 52.3 78.5



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

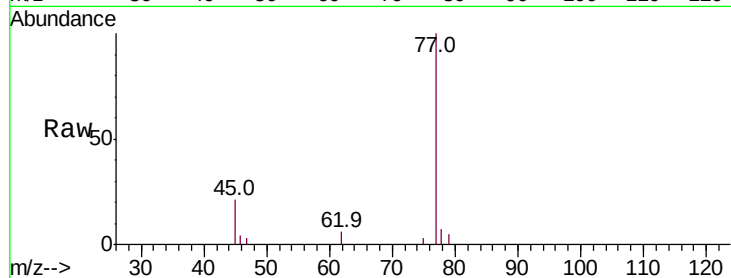




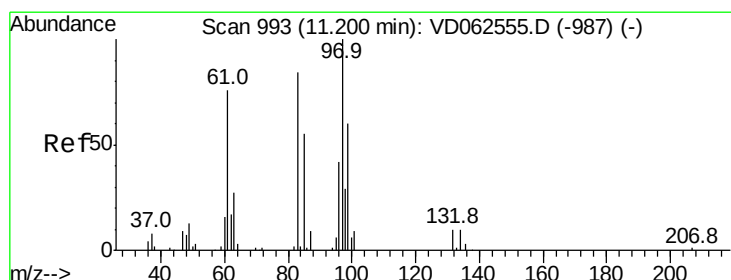
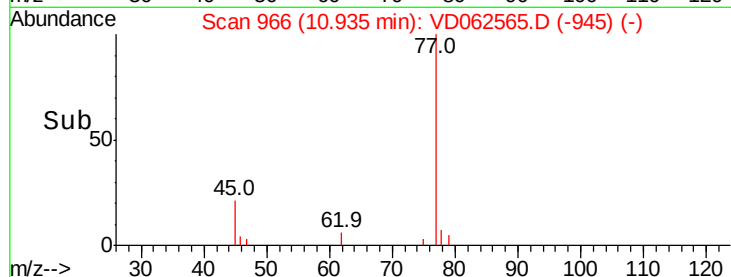
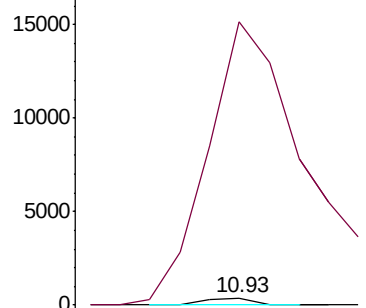
#53
t-1,3-Dichloropropene
Concen: 8.392 ug/l
RT: 10.93 min Scan# 966
Delta R.T. 0.01 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

Tot Ion: 75 Resp: 421
Ion Ratio Lower Upper
75 100
77 3929.4 24.5 36.7#

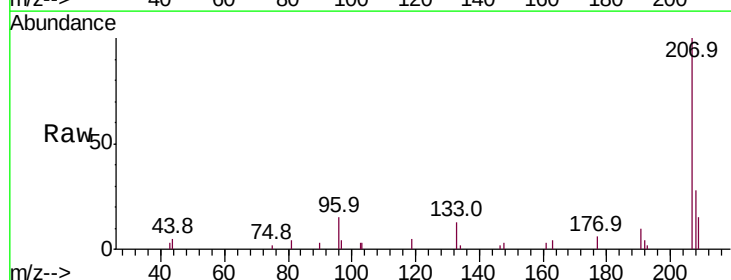


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 76.95 (76.65 to 77.65): VDC

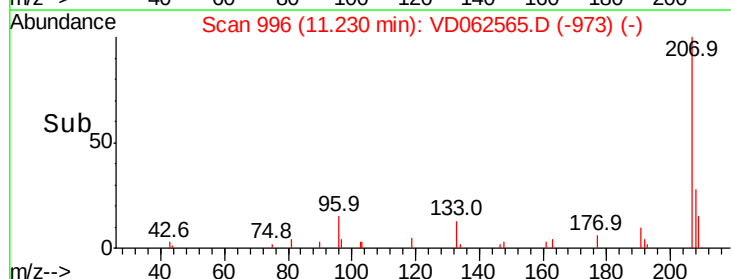
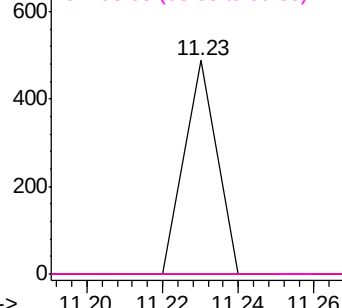


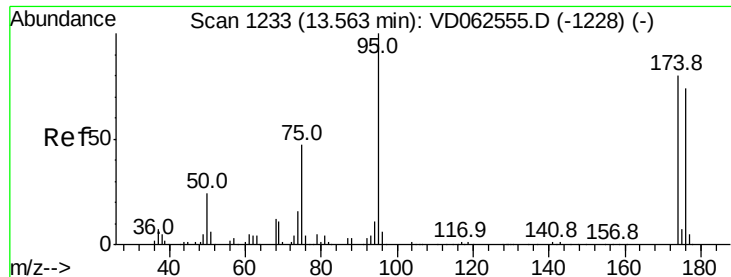
#55
1,1,2-Trichloroethane
Concen: 12.290 ug/l
RT: 11.23 min Scan# 996
Delta R.T. 0.03 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion: 97 Resp: 288
Ion Ratio Lower Upper
97 100
83 0.0 67.3 100.9#
85 0.0 43.8 65.8#
99 0.0 48.2 72.2#



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

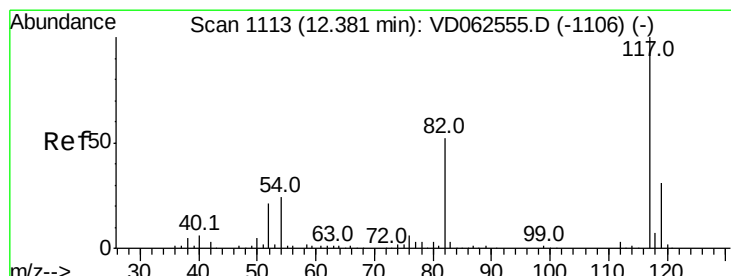
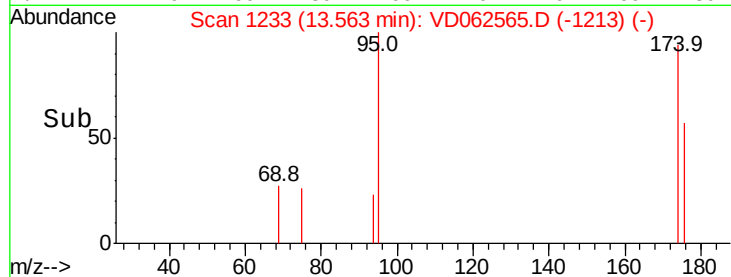
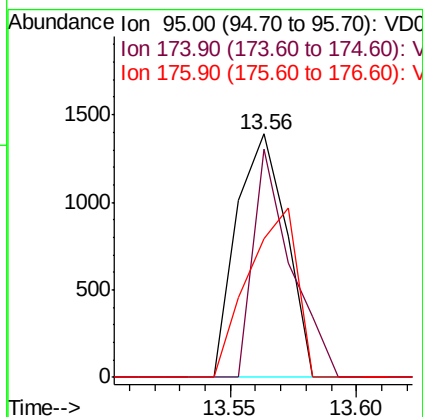
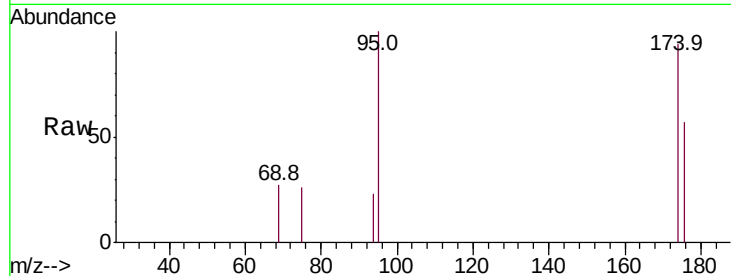




#62
4-Bromofluorobenzene
Concen: 39.336 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.00 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

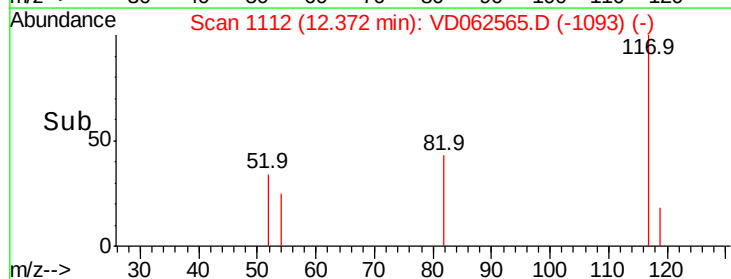
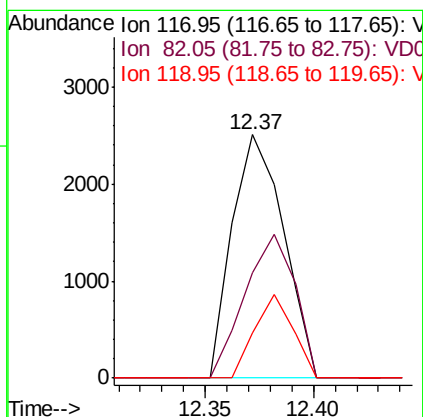
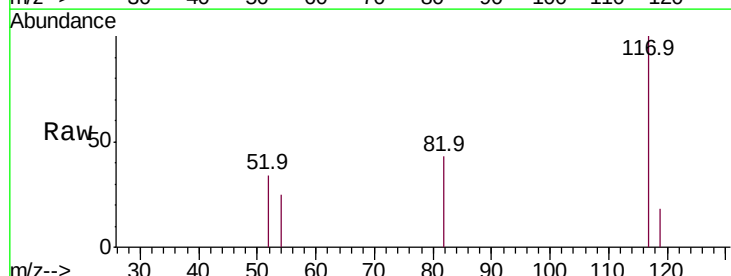
Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

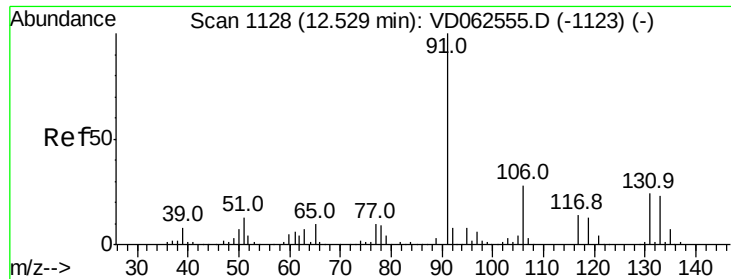
Tot Ion: 95 Resp: 1897
Ion Ratio Lower Upper
95 100
174 93.6 0.0 160.2
176 56.9 0.0 148.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion: 117 Resp: 4143
Ion Ratio Lower Upper
117 100
82 43.5 41.4 62.2
119 18.3 24.9 37.3#

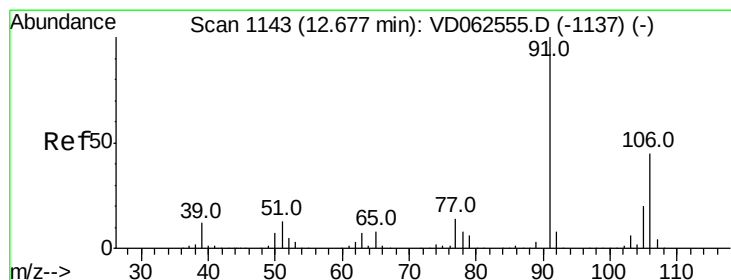
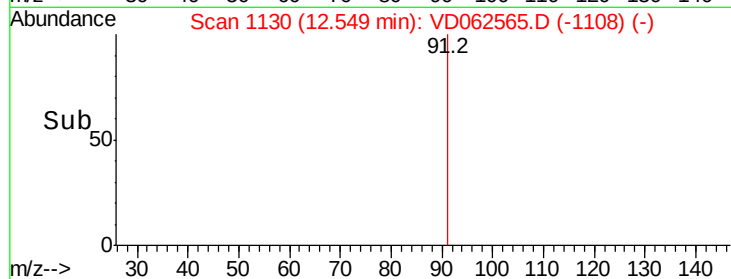
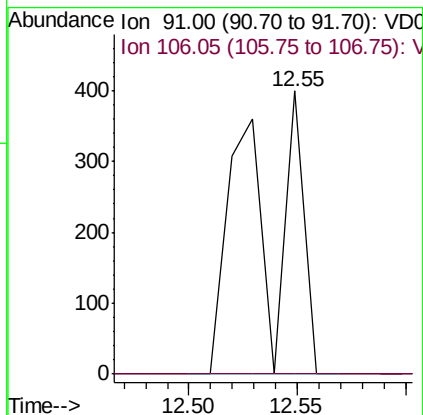
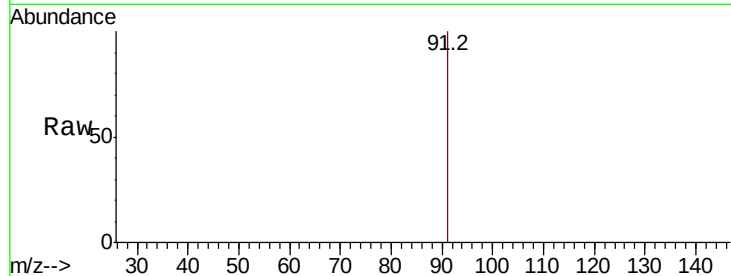




#67
Ethyl Benzene
Concen: 4.260 ug/l
RT: 12.55 min Scan# 1130
Delta R.T. 0.02 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

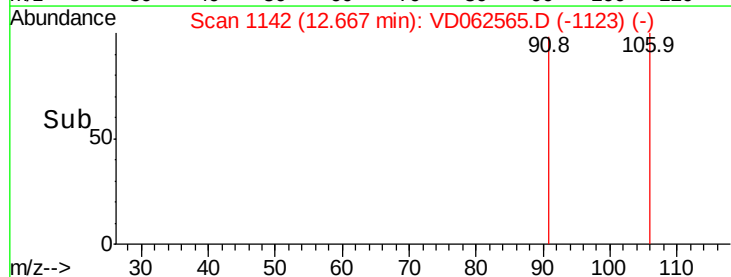
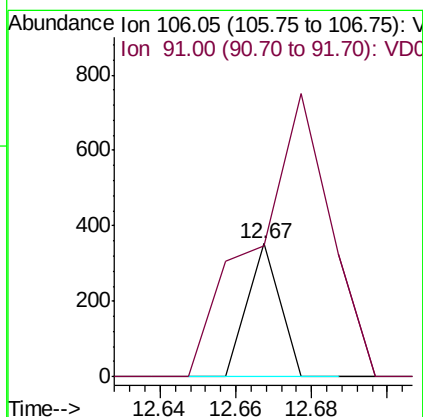
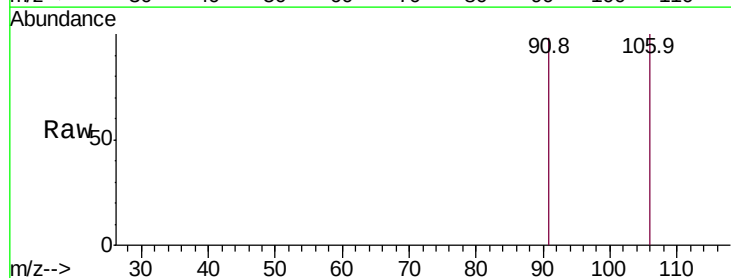
Instrument :
MSVOA_D
ClientSampleId :
20190422-HR-2RE

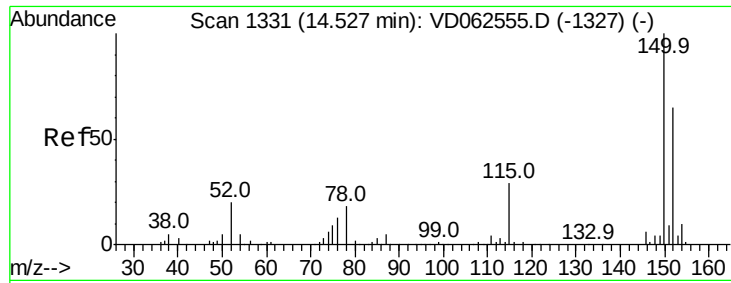
Tot Ion: 91 Resp: 630
Ion Ratio Lower Upper
91 100
106 0.0 22.2 33.2#



#68
m/p-Xylenes
Concen: 4.066 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.01 min
Lab File: VD062565.D
Acq: 31 May 2019 15:53

Tgt Ion:106 Resp: 208
Ion Ratio Lower Upper
106 100
91 98.3 178.9 268.3#

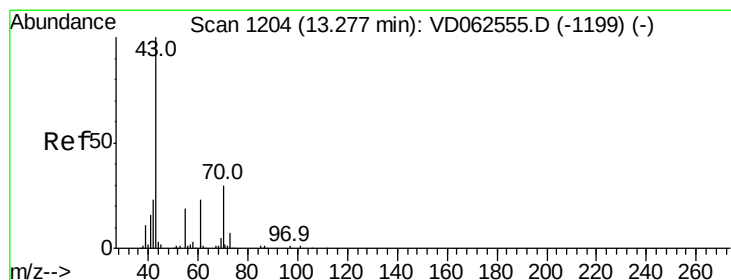
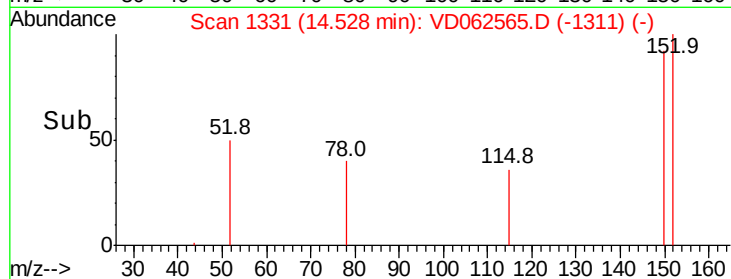
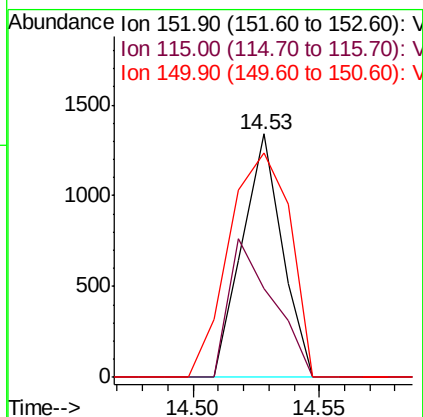
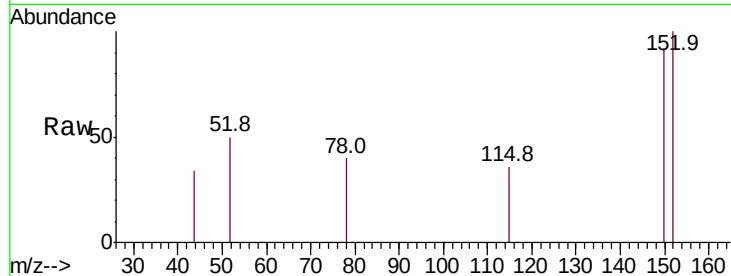




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. 0.00 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

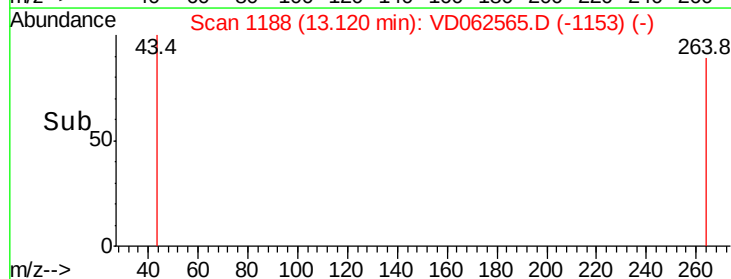
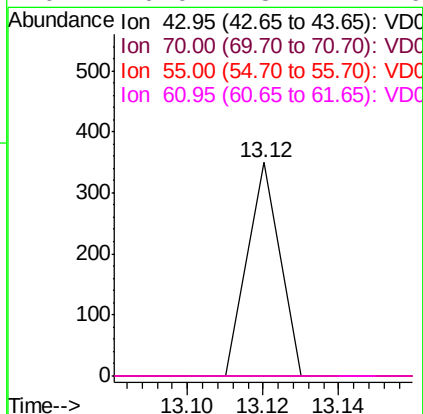
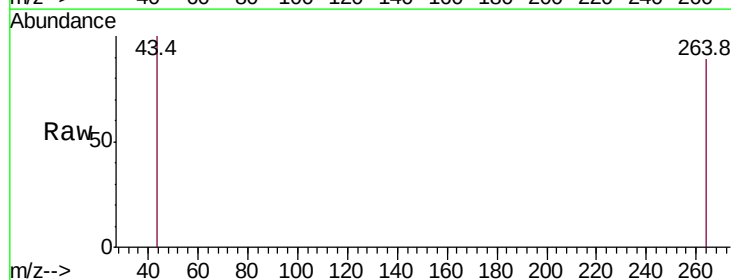
Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

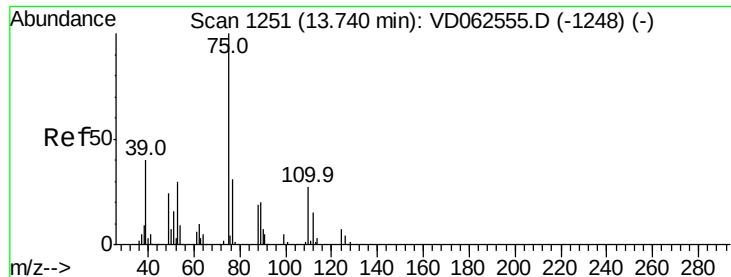
Tot Ion:152 Resp: 1478
 Ion Ratio Lower Upper
 152 100
 115 36.4 28.4 85.3
 150 92.1 0.0 310.4



#74
 N-ethyl acetate
 Concen: 8.332 ug/l
 RT: 13.12 min Scan# 1188
 Delta R.T. -0.16 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Tgt Ion: 43 Resp: 207
 Ion Ratio Lower Upper
 43 100
 70 0.0 23.7 35.5#
 55 0.0 15.0 22.4#
 61 0.0 18.4 27.6#





#76

1,2,3-Trichloropropane

Concen: 11.730 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

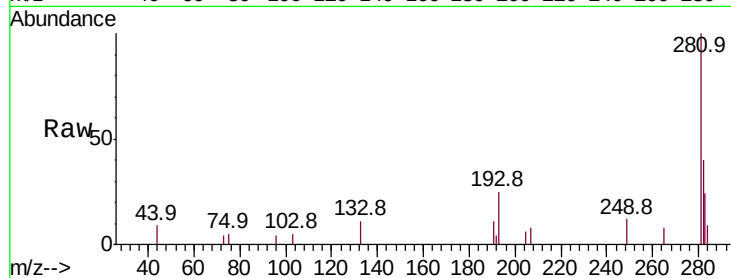
20190422-HR-2RE

Tot Ion: 75 Resp: 208

Ion Ratio Lower Upper

75 100

77 0.0 16.5 49.5#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

13.72

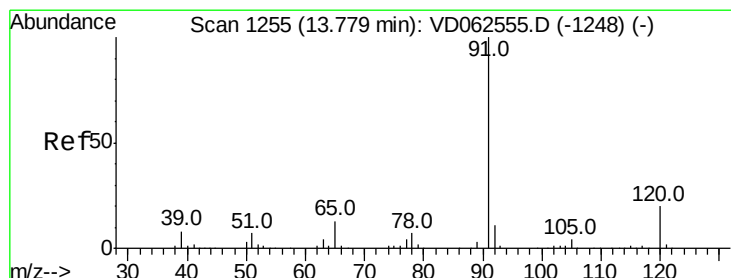
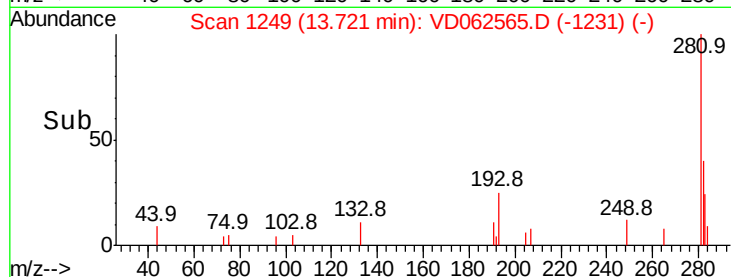
300

200

100

0

Time-->



#78

n-propylbenzene

Concen: 1.781 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VD062565.D

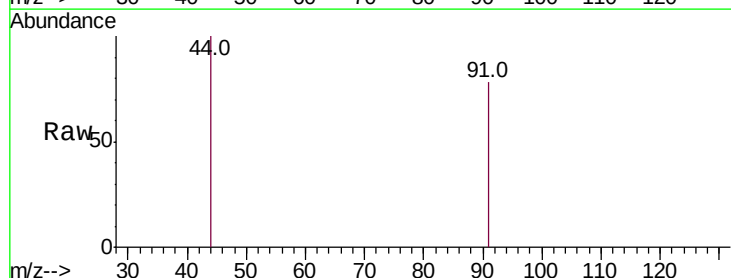
Acq: 31 May 2019 15:53

Tgt Ion: 91 Resp: 200

Ion Ratio Lower Upper

91 100

120 0.0 10.0 29.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC

13.78

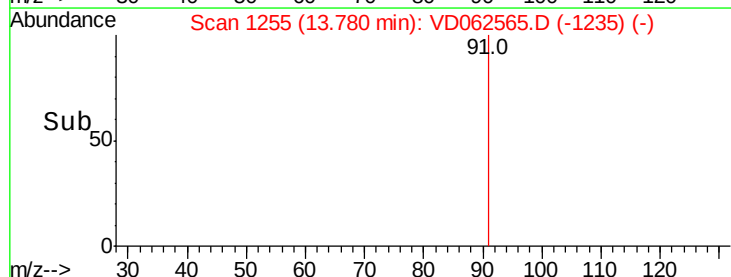
300

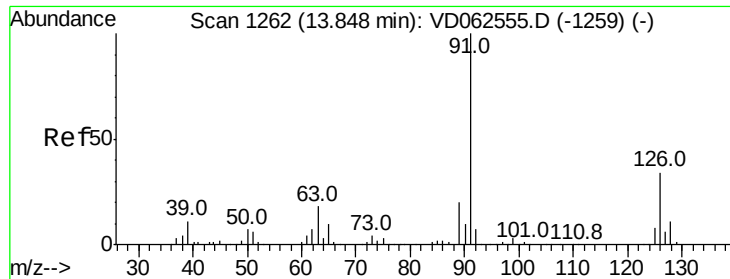
200

100

0

Time-->

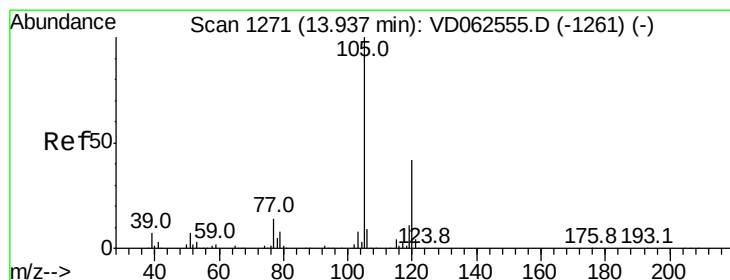
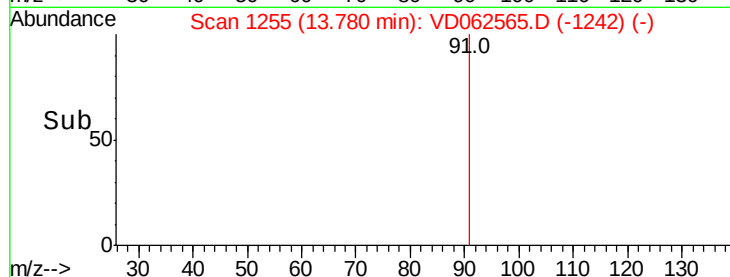
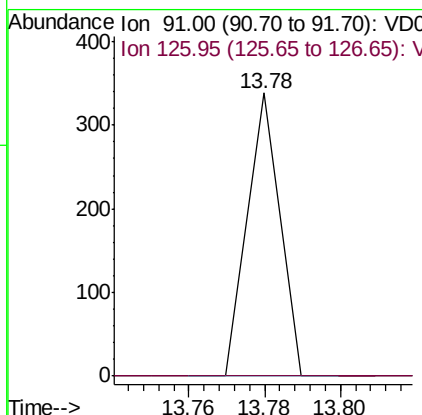
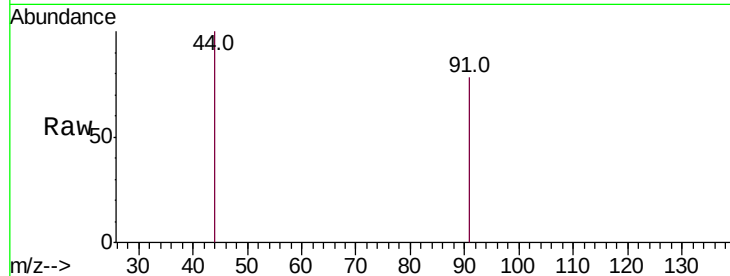




#79
 2-Chlorotoluene
 Concen: 3.071 ug/l
 RT: 13.78 min Scan# 1255
 Delta R.T. -0.07 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

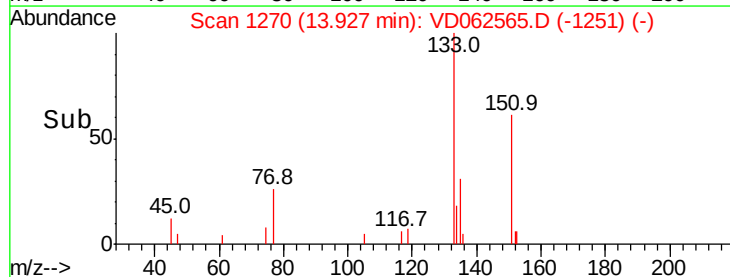
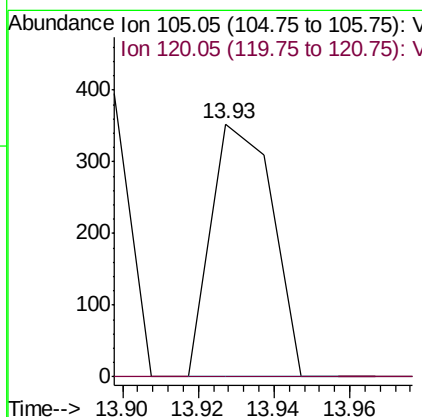
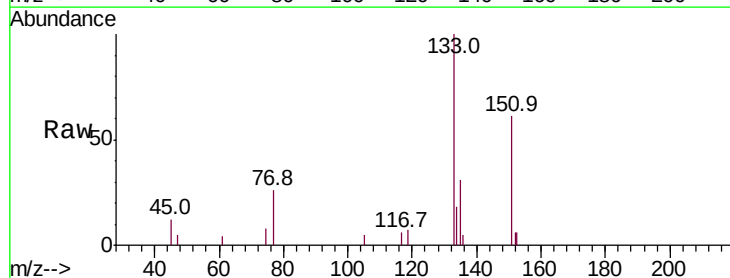
Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

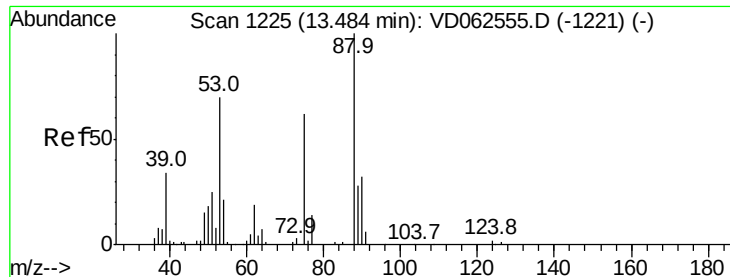
Tot Ion: 91 Resp: 200
 Ion Ratio Lower Upper
 91 100
 126 0.0 16.7 50.1#



#80
 1,3,5-Trimethylbenzene
 Concen: 4.708 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. -0.01 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Tgt Ion: 105 Resp: 392
 Ion Ratio Lower Upper
 105 100
 120 0.0 20.8 62.5#





#81

trans-1,4-Dichloro-2-butene

Concen: 141.117 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

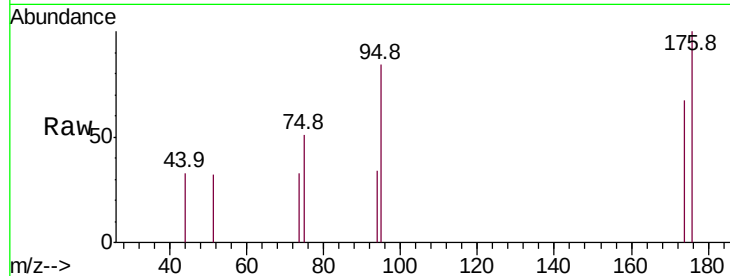
Tot Ion: 75 Resp: 717

Ion Ratio Lower Upper

75 100

53 0.0 91.0 136.4#

89 0.0 36.9 55.3#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

13.57

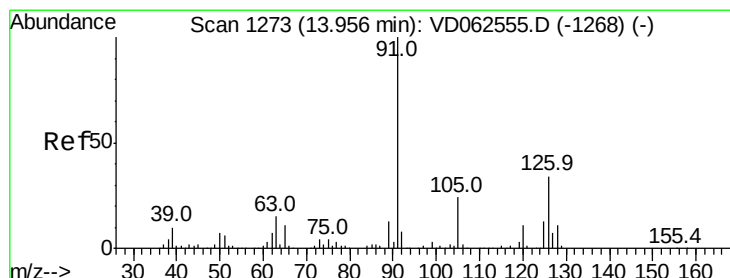
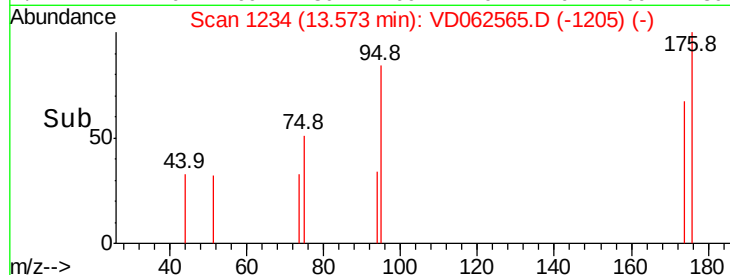
400

200

0

13.55 13.60

Time-->



#82

4-Chlorotoluene

Concen: 3.271 ug/l

RT: 13.94 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD062565.D

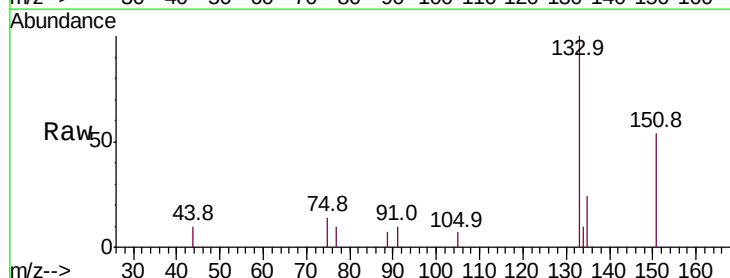
Acq: 31 May 2019 15:53

Tgt Ion: 91 Resp: 255

Ion Ratio Lower Upper

91 100

126 0.0 16.9 50.7#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

13.94

500

400

300

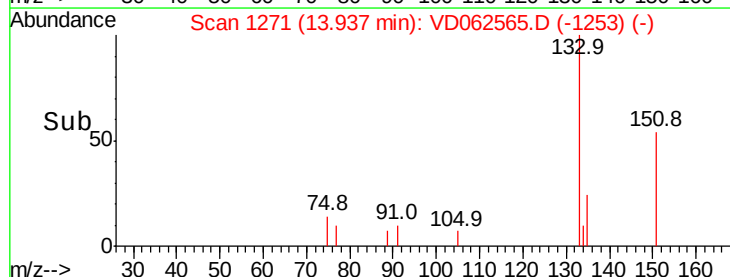
200

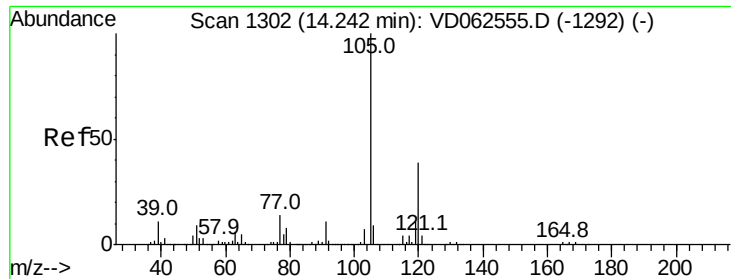
100

0

13.90 13.92 13.94 13.96

Time-->

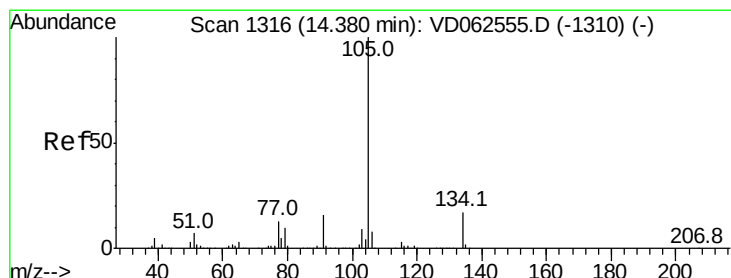
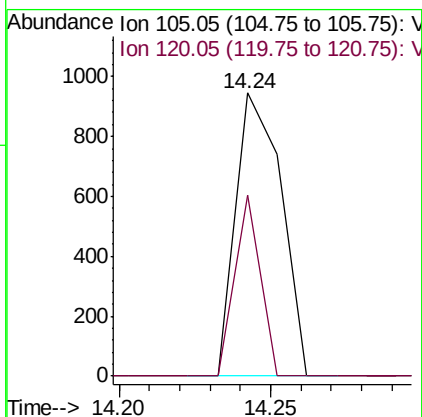
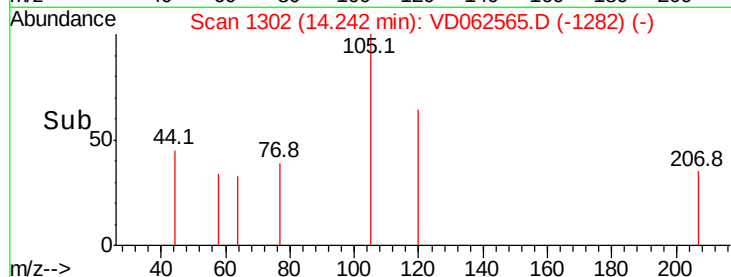
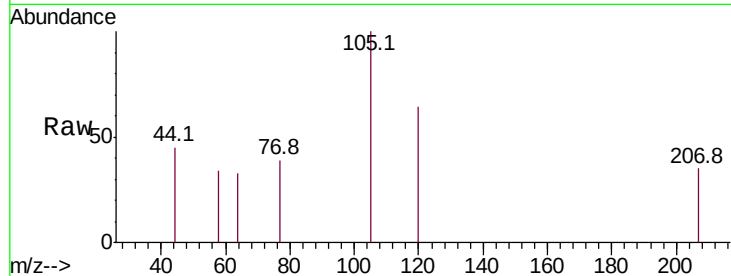




#84
 1,2,4-Trimethylbenzene
 Concen: 11.751 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

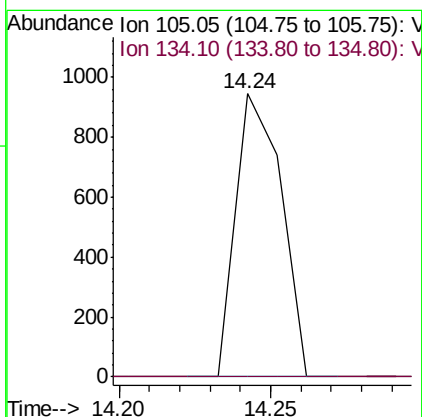
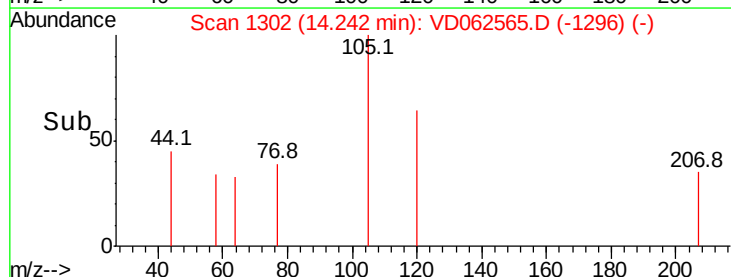
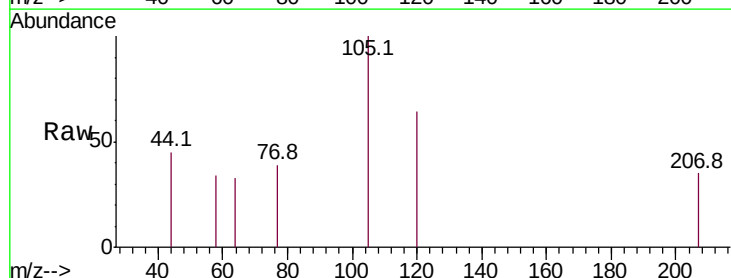
Instrument :
 MSVOA_D
 ClientSampleId :
 20190422-HR-2RE

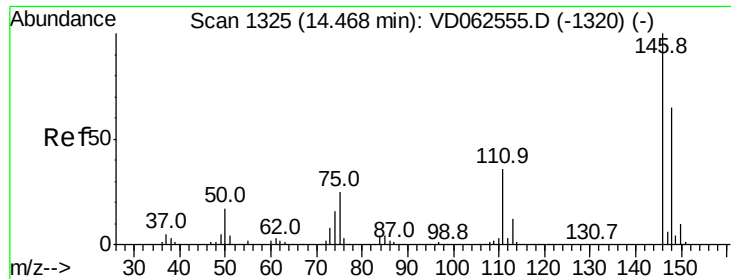
Tot Ion:105 Resp: 997
 Ion Ratio Lower Upper
 105 100
 120 64.1 19.6 58.8#



#85
 sec-Butylbenzene
 Concen: 10.130 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. -0.14 min
 Lab File: VD062565.D
 Acq: 31 May 2019 15:53

Tgt Ion:105 Resp: 997
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.7 26.1#





#87

1,3-Dichlorobenzene

Concen: 4.103 ug/l

RT: 14.55 min Scan# 1333

Delta R.T. 0.08 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE

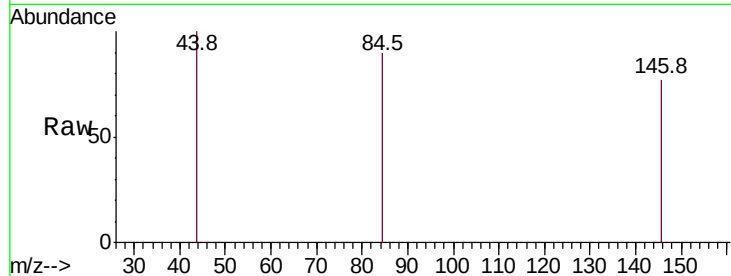
Tot Ion:146 Resp: 190

Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.4#

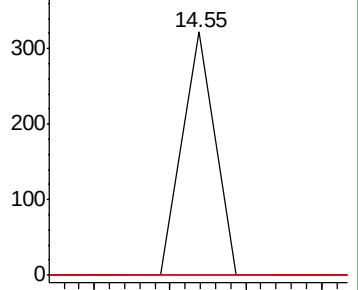
148 0.0 32.3 96.9#



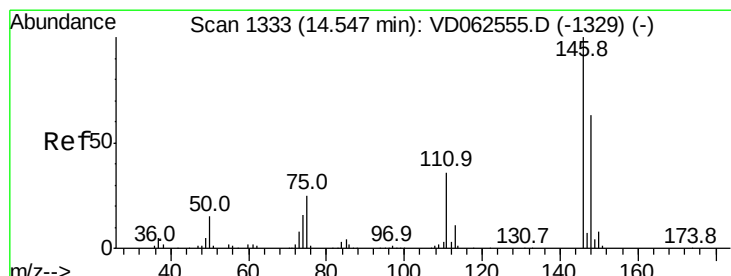
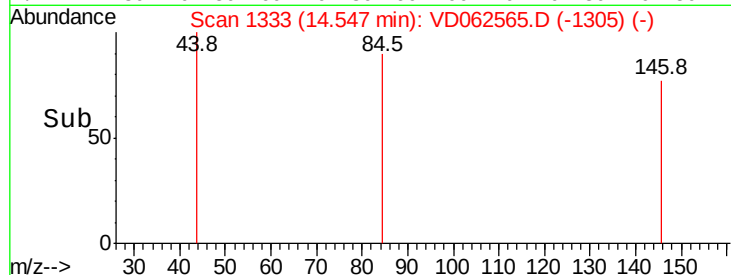
Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->



#88

1,4-Dichlorobenzene

Concen: 4.094 ug/l

RT: 14.55 min Scan# 1333

Delta R.T. 0.00 min

Lab File: VD062565.D

Acq: 31 May 2019 15:53

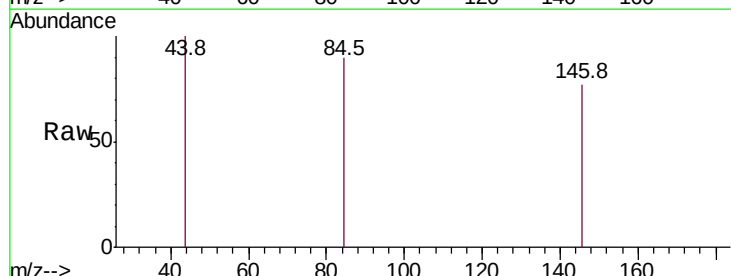
Tgt Ion:146 Resp: 190

Ion Ratio Lower Upper

146 100

111 0.0 18.2 54.6#

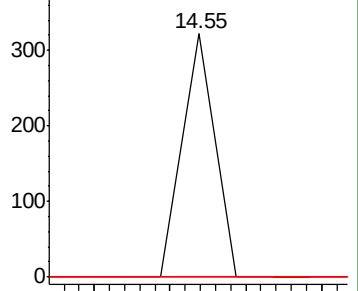
148 0.0 31.6 94.8#



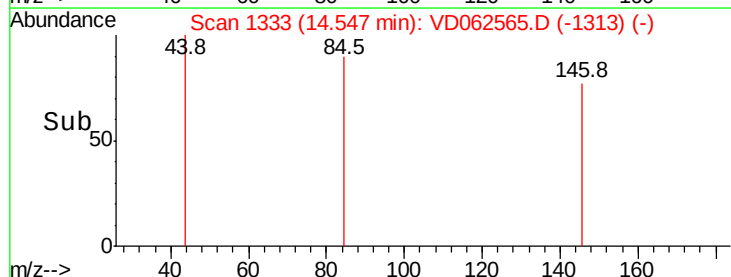
Abundance Ion 145.95 (145.65 to 146.65): V

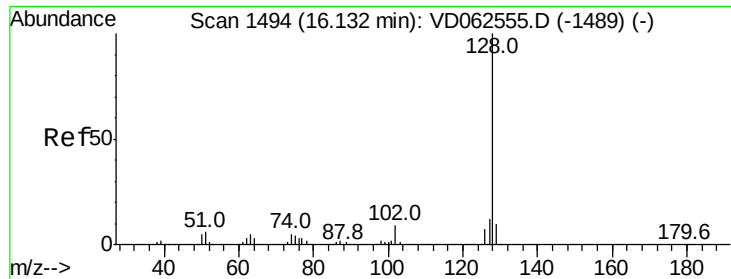
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



Time-->





#95

Naphthalene

Concen: 4.243 ug/l

RT: 16.00 min Scan# 1481

Delta R.T. -0.13 min

Lab File: VD062565.D

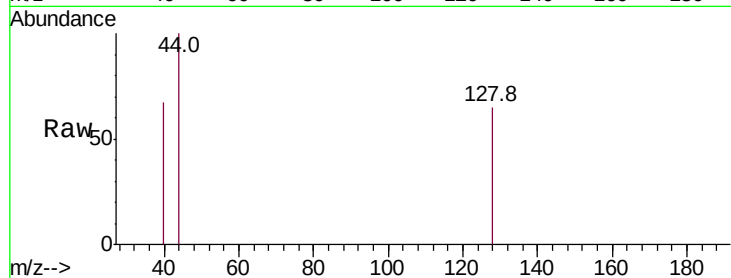
Acq: 31 May 2019 15:53

Instrument :

MSVOA_D

ClientSampleId :

20190422-HR-2RE



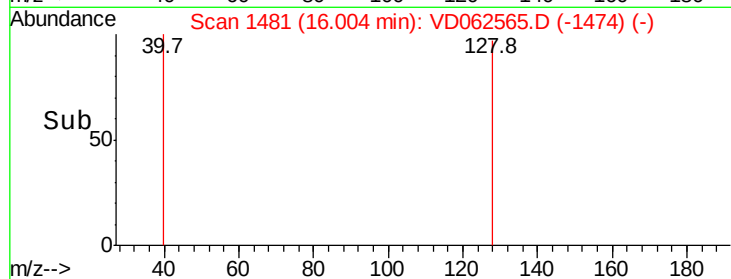
Tot Ion:128 Resp: 180

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.2 12.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

