

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062290.D
 Acq On : 13 May 2019 6:59
 Operator : FY/SY
 Sample : K2759-02
 Misc : 4.78g/5mL/MSVOA D/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-004

Quant Time: May 13 08:37:20 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	7.06	168	40963	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	79513	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	77557	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	39951	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.46	65	45938	120.68	ug/l	0.04
Spiked Amount	50.000		Recovery	=	241.36%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	10.42	98	57866	36.38	ug/l	0.02
Spiked Amount	50.000		Recovery	=	72.76%	
62) 4-Bromofluorobenzene	13.57	95	33154	51.90	ug/l	0.02
Spiked Amount	50.000		Recovery	=	103.80%	

Target Compounds						Qvalue
5) Bromomethane	2.16	94	2151	32.996	ug/l #	12
11) Tert butyl alcohol	4.01	59	14473	744.827	ug/l #	76
16) Acetone	3.23	43	39765	498.112	ug/l #	77
17) Carbon Disulfide	3.39	76	1673	1.862	ug/l #	75
18) Methyl Acetate	3.47	43	253	1.477	ug/l #	53
20) Methylene Chloride	3.85	84	4361	13.083	ug/l #	70
25) 2-Butanone	6.09	43	3836	44.053	ug/l #	56
26) 2,2-Dichloropropane	6.16	77	3587	6.177	ug/l #	51
29) Tetrahydrofuran	6.49	42	545	13.584	ug/l #	30
37) Ethyl Acetate	6.16	43	4385	15.860	ug/l #	55
38) Carbon Tetrachloride	7.07	117	4093	4.536	ug/l #	12
40) Benzene	7.47	78	5368	3.646	ug/l	100
51) 4-Methyl-2-Pentanone	10.31	43	1390	5.515	ug/l #	37
52) Toluene	10.52	92	10355	10.811	ug/l	82
58) 2-Chloroethyl Vinyl ether	9.87	63	210	1.092	ug/l #	46
59) 2-Hexanone	11.53	43	2207	11.880	ug/l #	27
67) Ethyl Benzene	12.53	91	2648	1.095	ug/l #	44
74) N-amyl acetate	13.20	43	3499	5.573	ug/l #	49
76) 1,2,3-Trichloropropane	13.56	75	12558	26.450	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.56	75	14571	108.711	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	4556	2.251	ug/l #	30
85) sec-Butylbenzene	14.24	105	4556	1.833	ug/l #	60
95) Naphthalene	16.12	128	3540	3.454	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

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ClientSampleId :

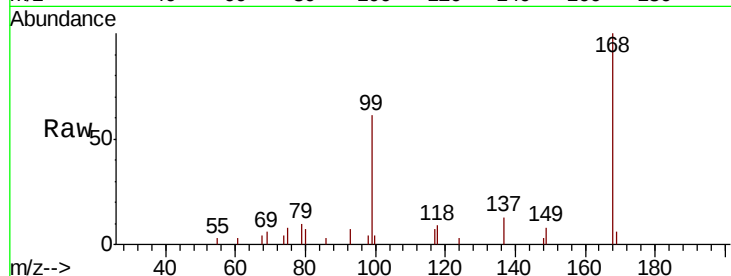
FK-0D015-03-004

Tot Ion:168 Resp: 40963

Ion Ratio Lower Upper

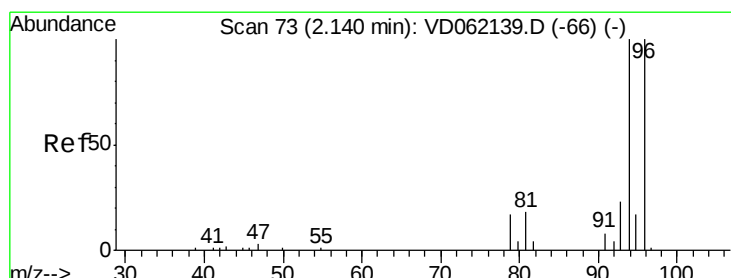
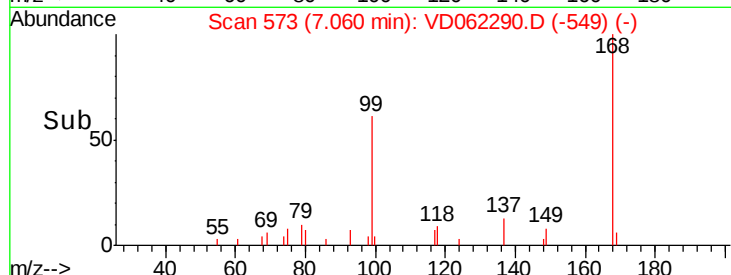
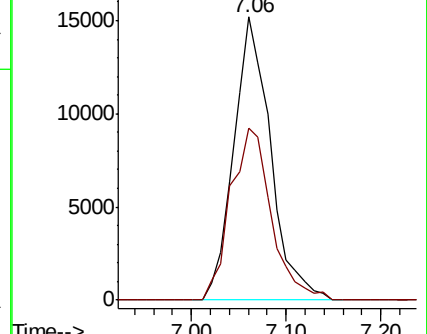
168 100

99 60.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 32.996 ug/l

RT: 2.16 min Scan# 75

Delta R.T. 0.02 min

Lab File: VD062290.D

Acq: 13 May 2019 6:59

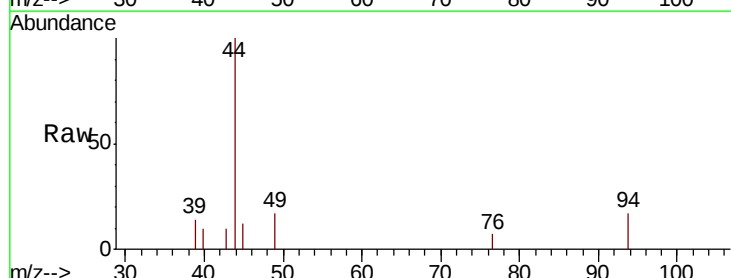
Tgt Ion: 94 Resp: 2151

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

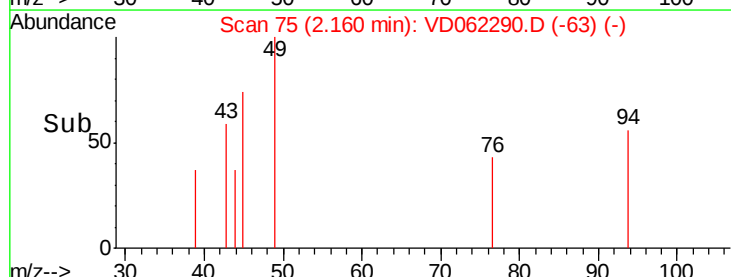
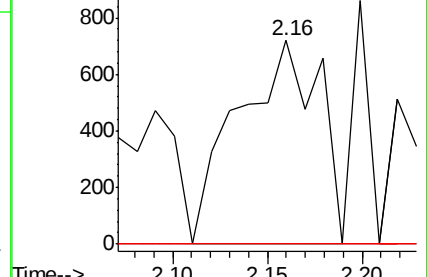
93 0.0 18.5 27.7#

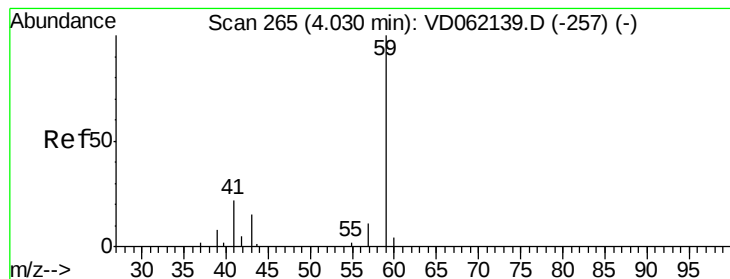


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



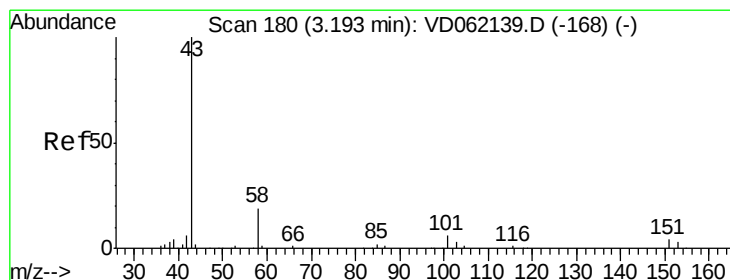
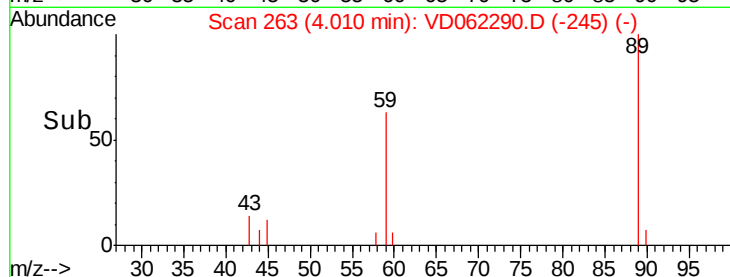
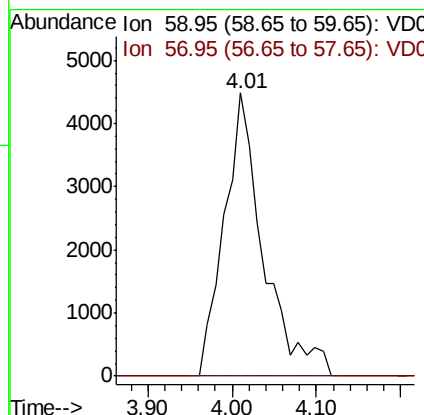
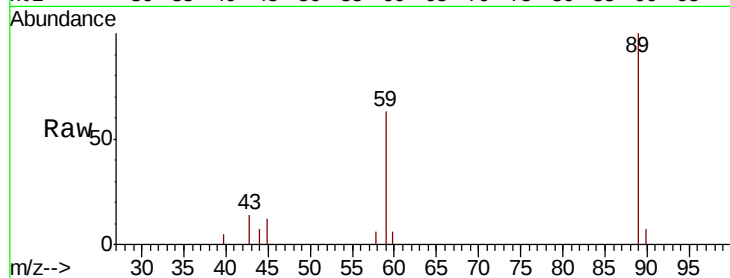


#11

Tert butyl alcohol
 Concen: 744.827 ug/l
 RT: 4.01 min Scan# 263
 Delta R.T. -0.02 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-004

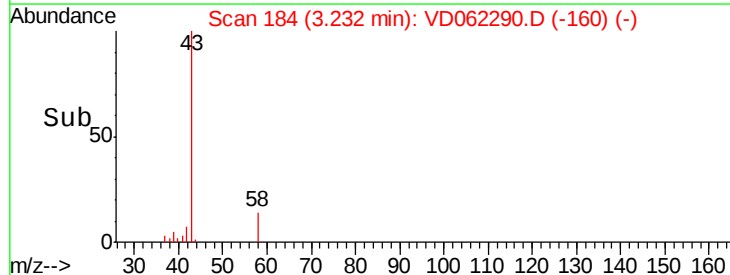
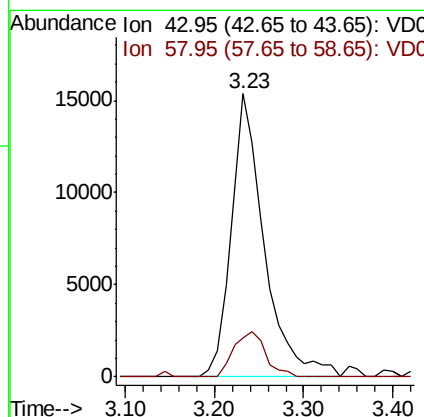
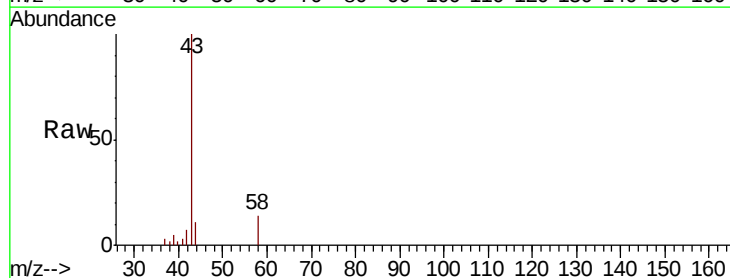
Tot Ion: 59 Resp: 14473
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

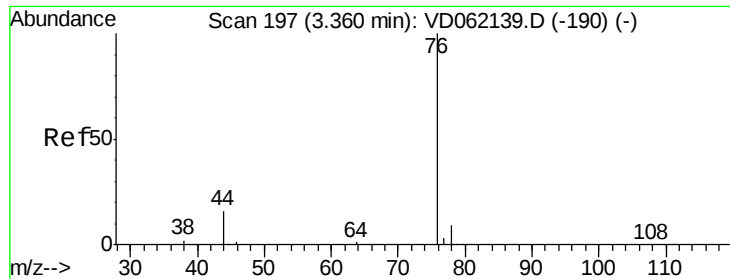


#16

Acetone
 Concen: 498.112 ug/l
 RT: 3.23 min Scan# 184
 Delta R.T. 0.04 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

Tgt Ion: 43 Resp: 39765
 Ion Ratio Lower Upper
 43 100
 58 13.5 19.9 29.9#

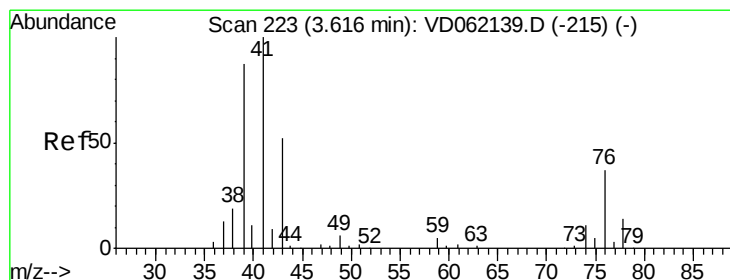
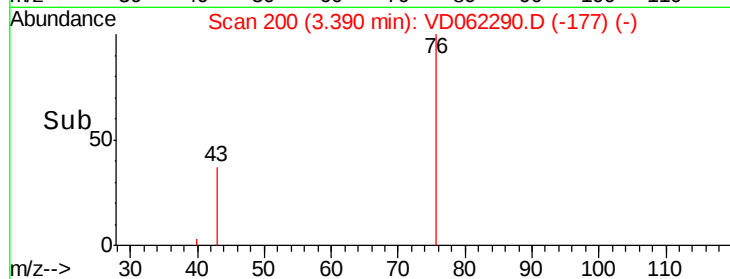
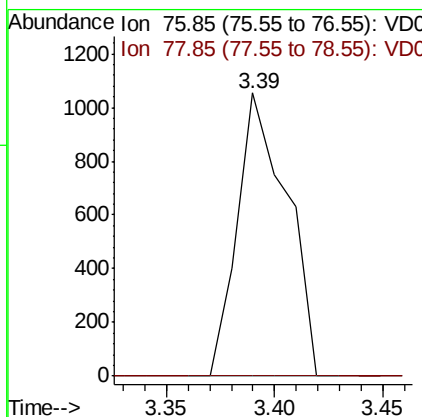
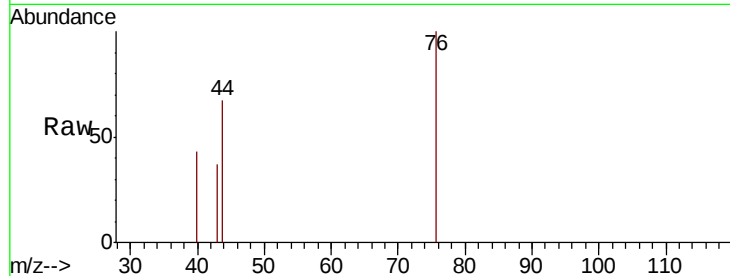




#17
Carbon Disulfide
Concen: 1.862 ug/l
RT: 3.39 min Scan# 200
Delta R.T. 0.03 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

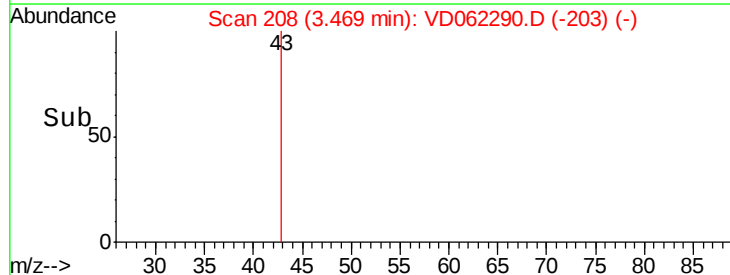
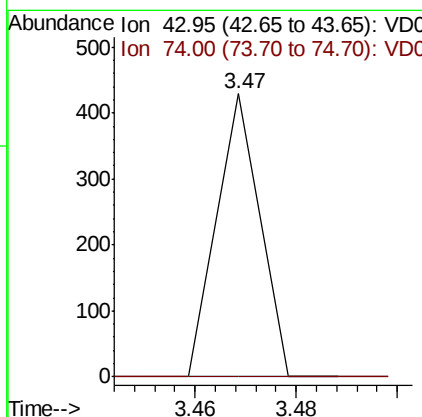
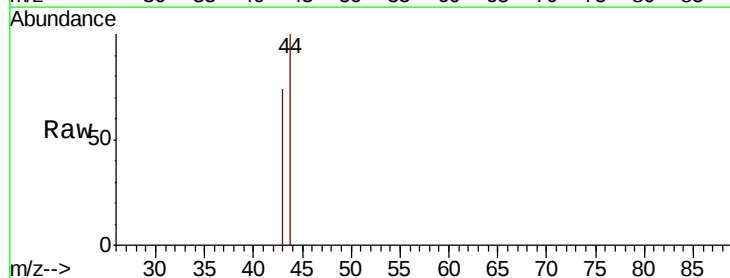
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-004

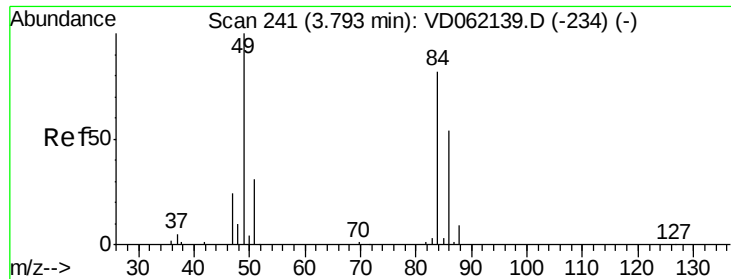
Tot Ion: 76 Resp: 1673
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 1.477 ug/l
RT: 3.47 min Scan# 208
Delta R.T. -0.15 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

Tgt Ion: 43 Resp: 253
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#

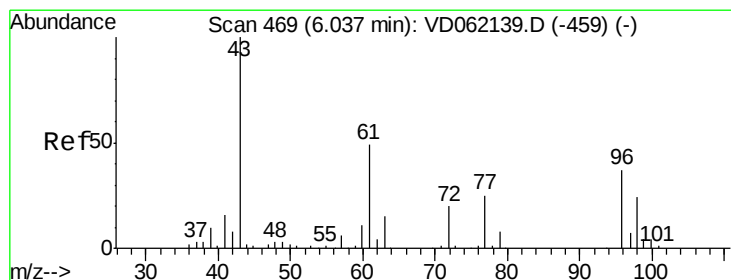
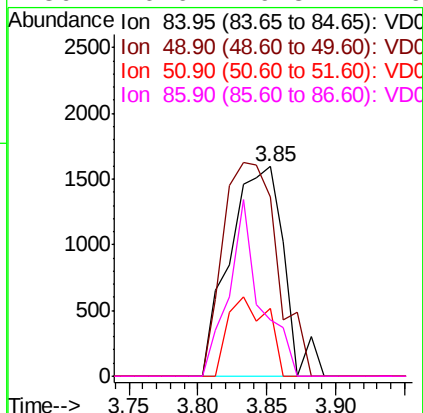
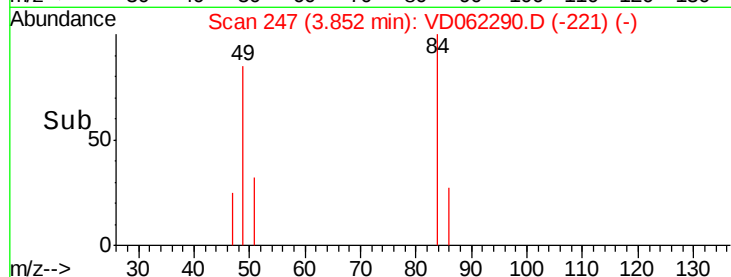
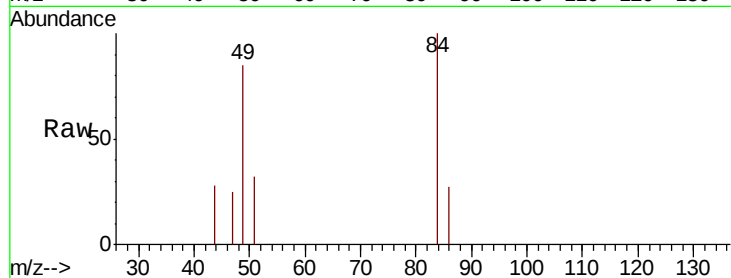




#20
Methylene Chloride
Concen: 13.083 ug/l
RT: 3.85 min Scan# 247
Delta R.T. 0.06 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

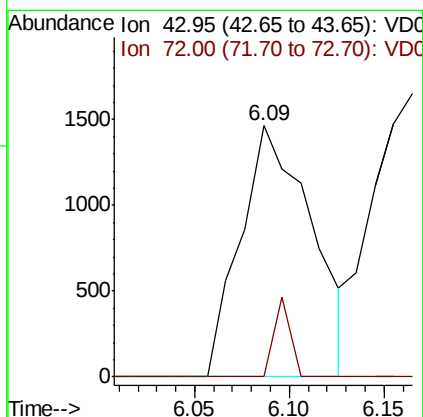
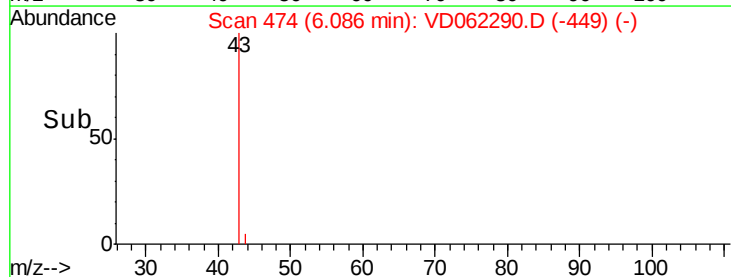
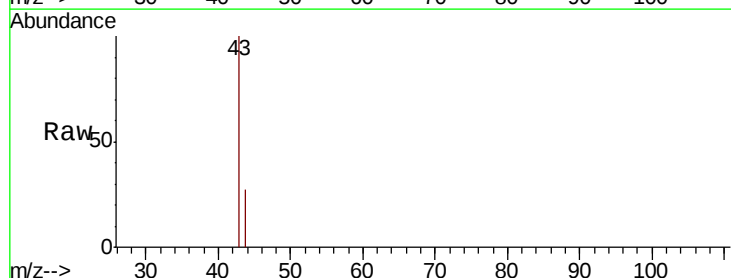
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-004

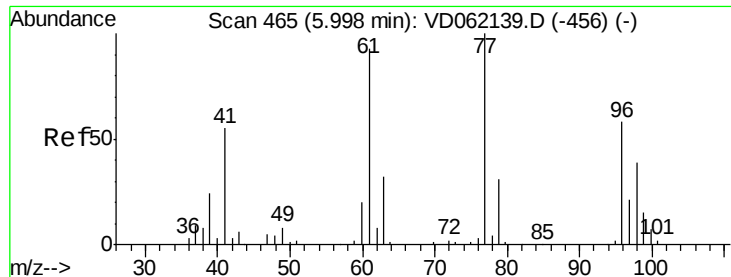
Tot Ion: 84 Resp: 4361
Ion Ratio Lower Upper
84 100
49 85.5 94.0 141.0#
51 32.1 29.0 43.4
86 26.6 49.8 74.6#



#25
2-Butanone
Concen: 44.053 ug/l
RT: 6.09 min Scan# 474
Delta R.T. 0.05 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

Tgt Ion: 43 Resp: 3836
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#





#26

2,2-Dichloropropane

Concen: 6.177 ug/l

RT: 6.16 min Scan# 482

Delta R.T. 0.17 min

Lab File: VD062290.D

Acq: 13 May 2019 6:59

Instrument :

MSVOA_D

ClientSampleId :

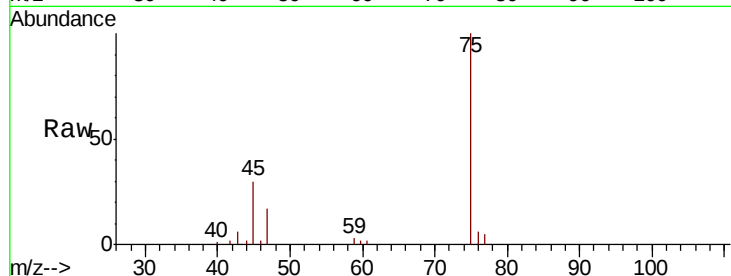
FK-0D015-03-004

Tot Ion: 77 Resp: 3587

Ion Ratio Lower Upper

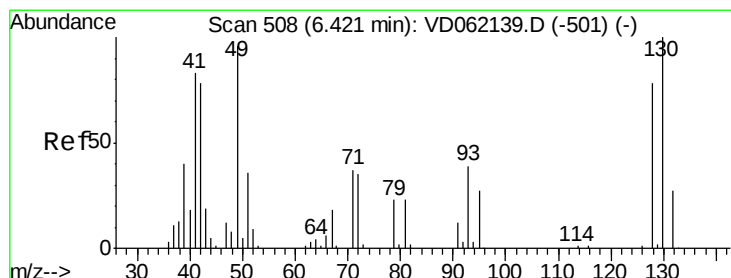
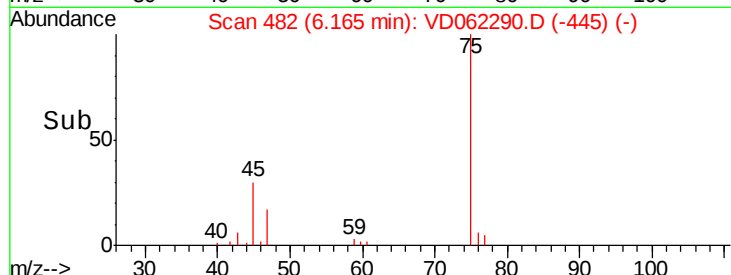
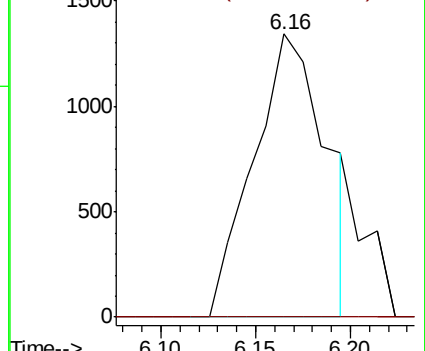
77 100

97 0.0 11.9 35.9#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



#29

Tetrahydrofuran

Concen: 13.584 ug/l

RT: 6.49 min Scan# 515

Delta R.T. 0.07 min

Lab File: VD062290.D

Acq: 13 May 2019 6:59

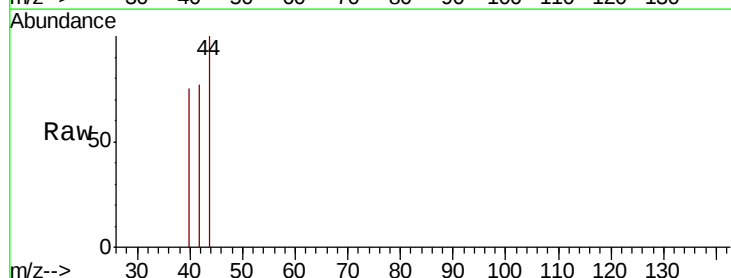
Tgt Ion: 42 Resp: 545

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

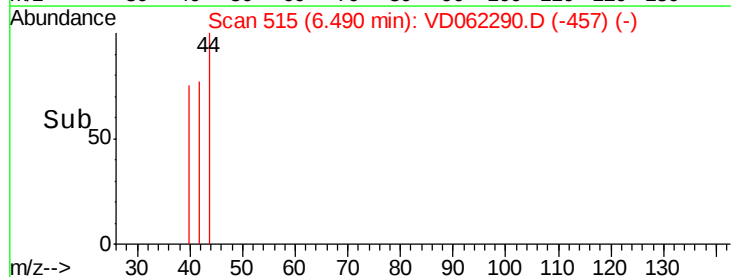
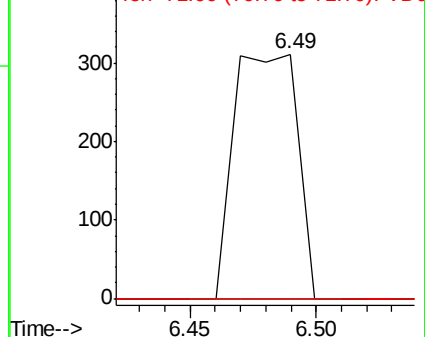
71 0.0 36.7 55.1#

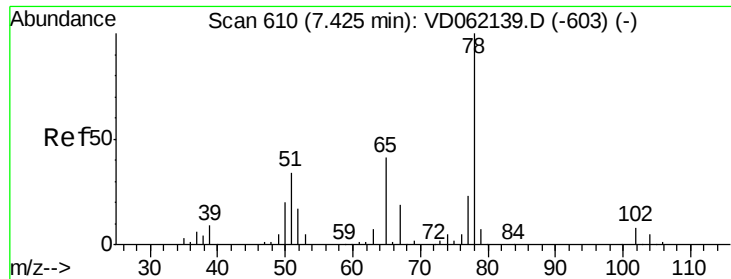


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

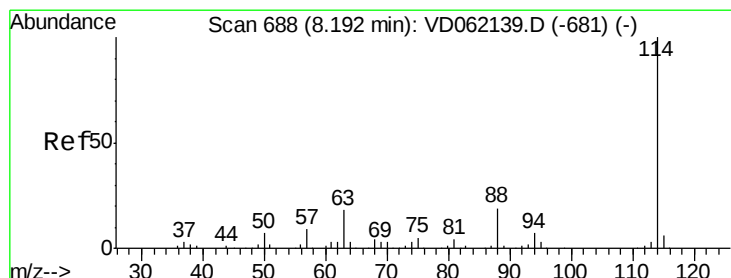
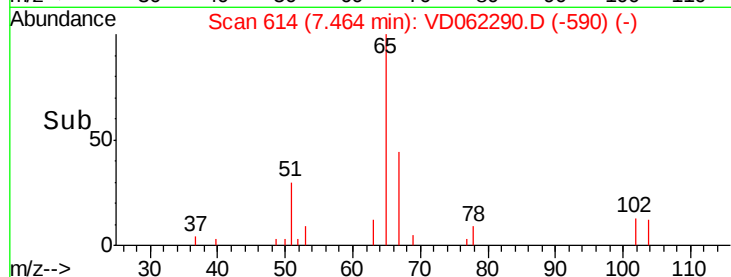
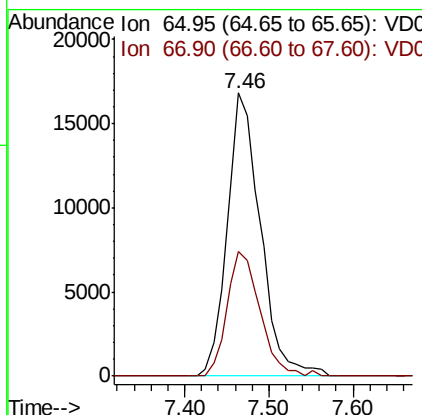
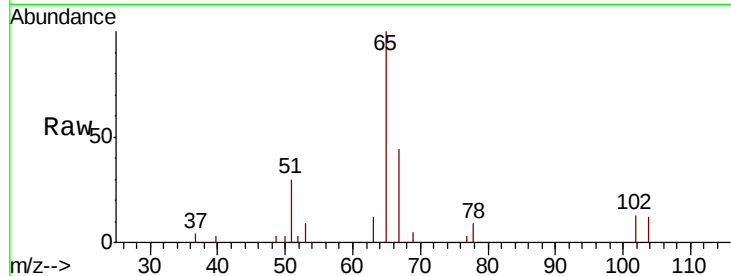




#33
 1,2-Dichloroethane-d4
 Concen: 120.675 ug/l
 RT: 7.46 min Scan# 614
 Delta R.T. 0.04 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

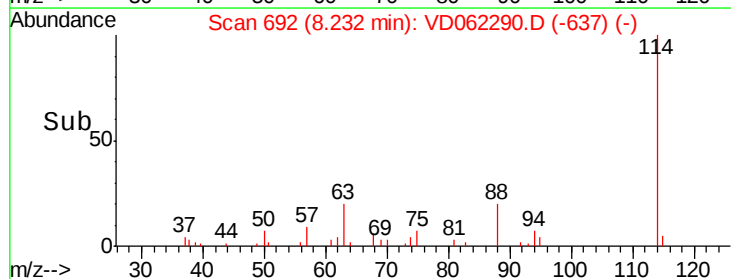
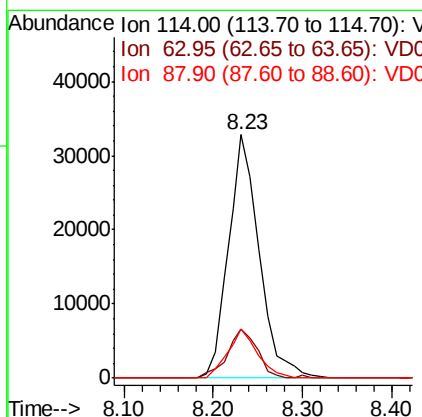
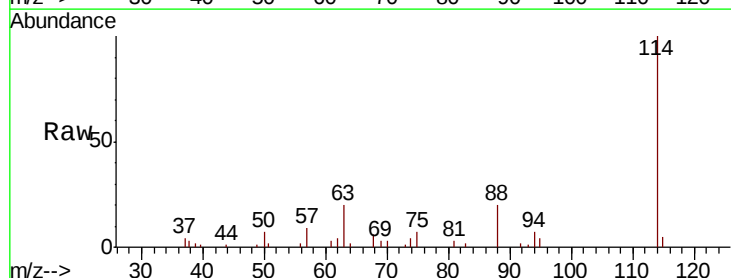
Instrument :
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 FK-0D015-03-004

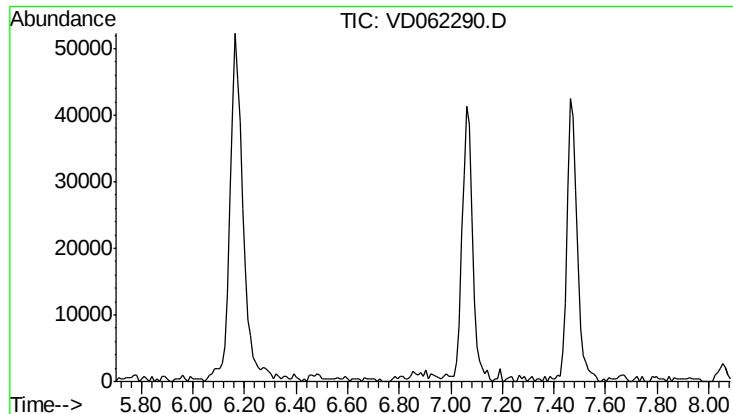
Tot Ion: 65 Resp: 45938
 Ion Ratio Lower Upper
 65 100
 67 44.3 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.04 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

Tgt Ion: 114 Resp: 79513
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 32.4
 88 19.9 0.0 33.6

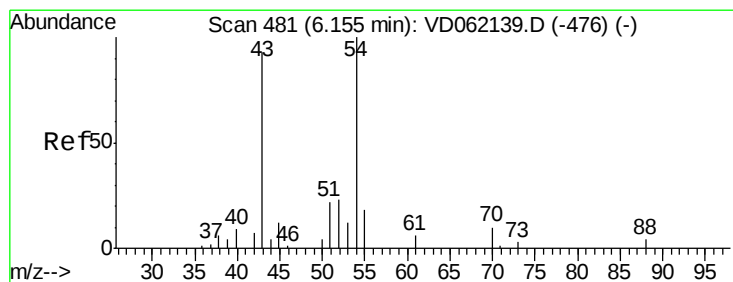
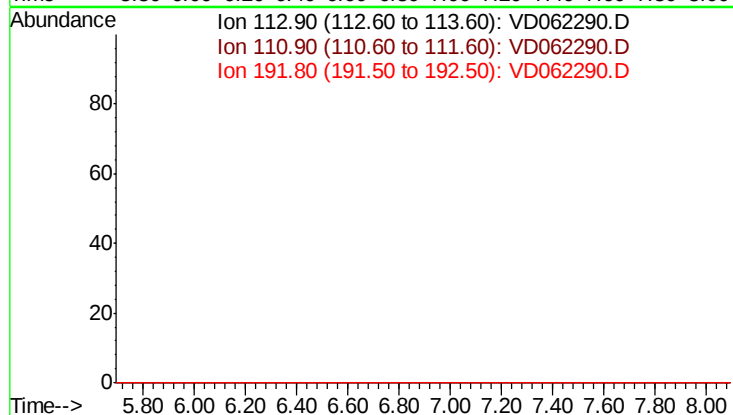




#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 6.89 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

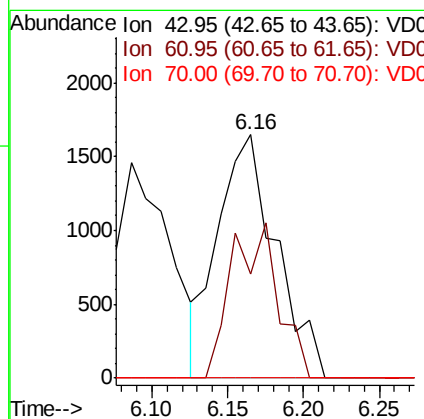
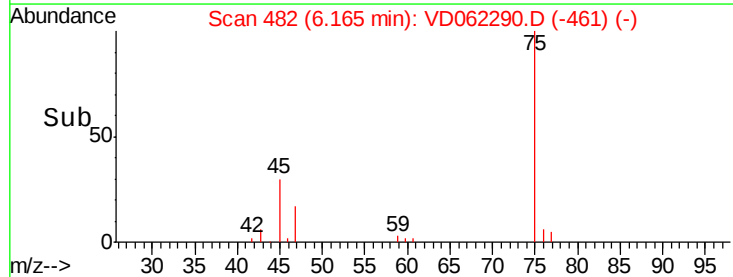
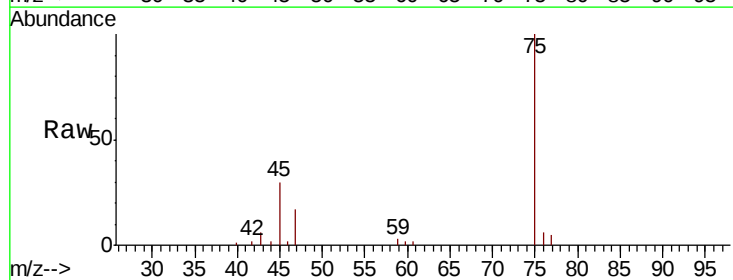
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-004

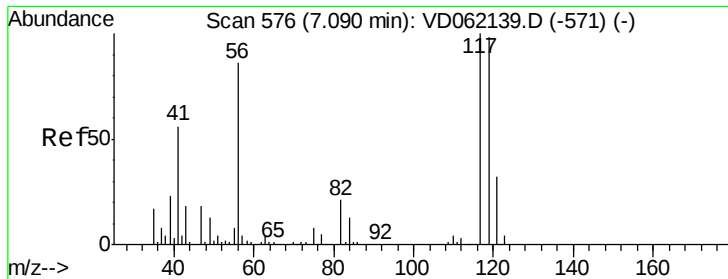
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 98.1
 192 16.2



#37
 Ethyl Acetate
 Concen: 15.860 ug/l
 RT: 6.16 min Scan# 482
 Delta R.T. 0.01 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

Tgt Ion: 43 Resp: 4385
 Ion Ratio Lower Upper
 43 100
 61 42.7 14.7 22.1#
 70 0.0 7.8 11.6#

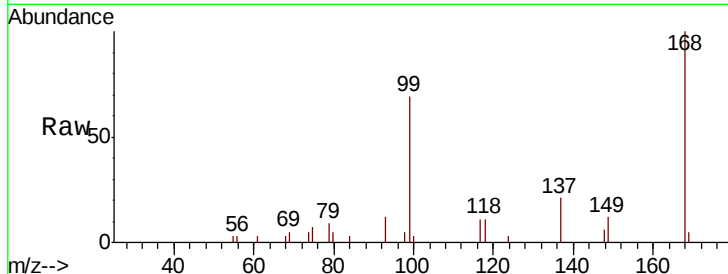




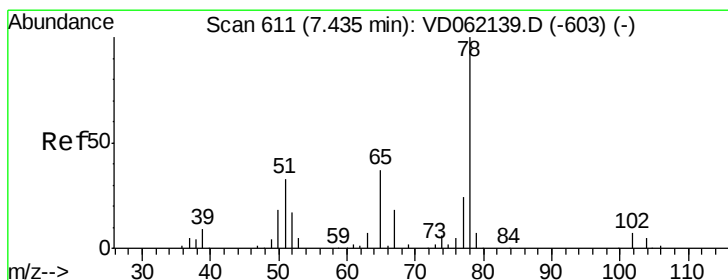
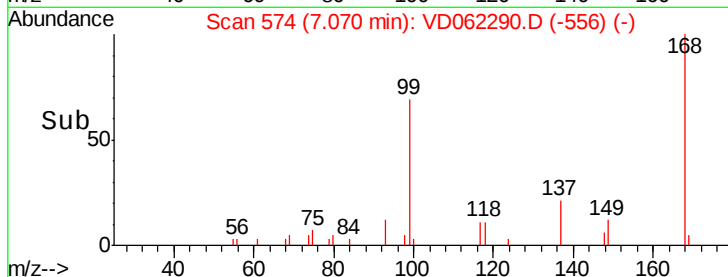
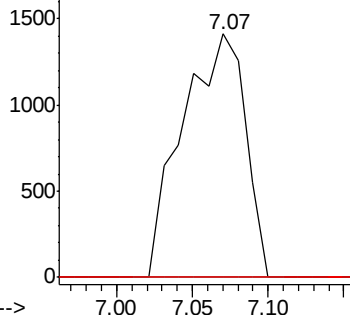
#38
Carbon Tetrachloride
Concen: 4.536 ug/l
RT: 7.07 min Scan# 574
Delta R.T. -0.02 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-004

Tot Ion:117 Resp: 4093
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.8#
121 0.0 25.9 38.9#

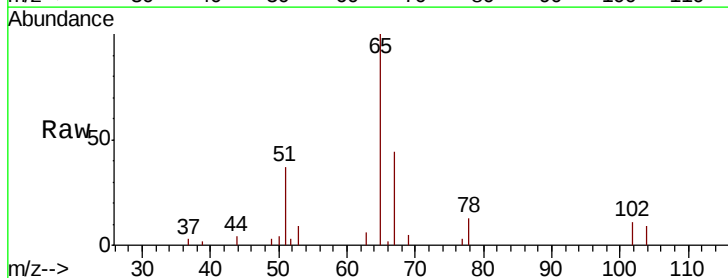


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

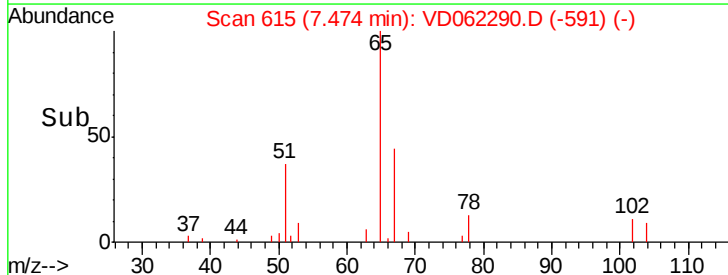
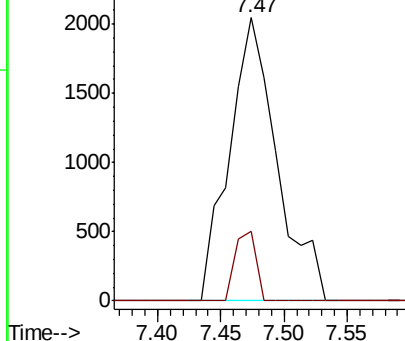


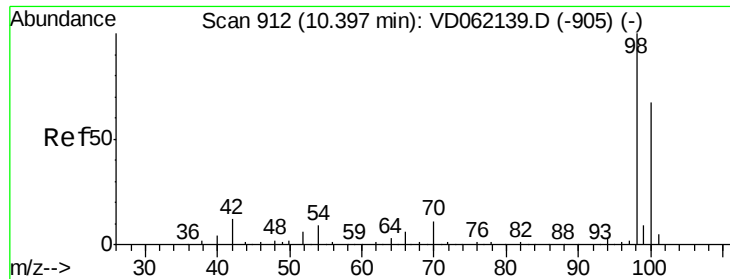
#40
Benzene
Concen: 3.646 ug/l
RT: 7.47 min Scan# 615
Delta R.T. 0.04 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

Tgt Ion: 78 Resp: 5368
Ion Ratio Lower Upper
78 100
77 24.4 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

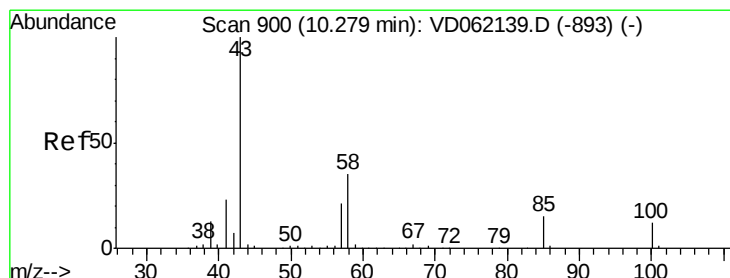
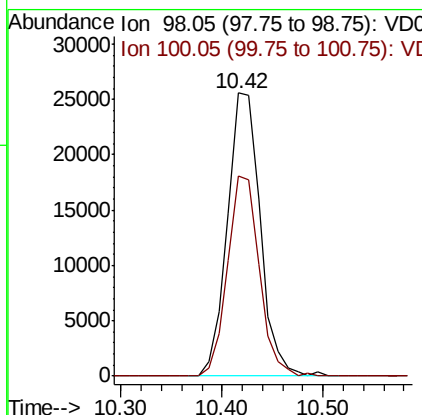
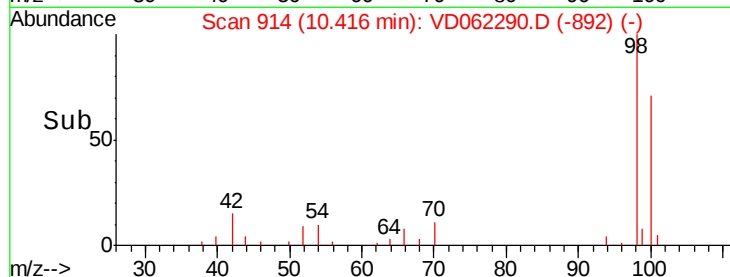
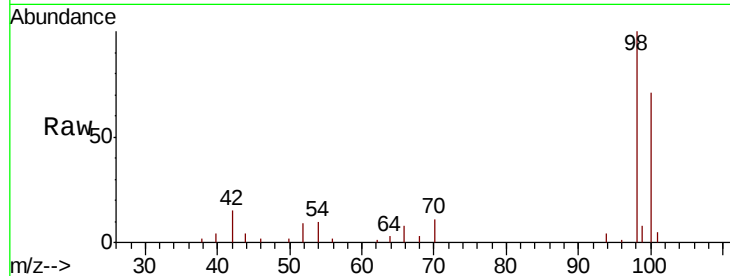




#50
Toluene-d8
Concen: 36.379 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

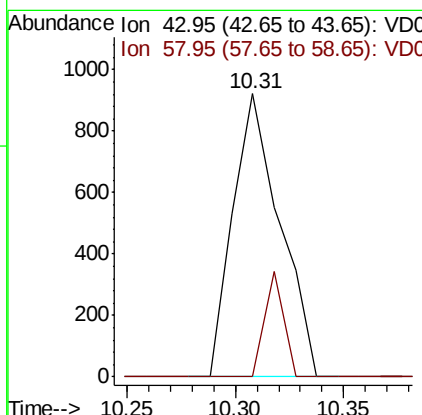
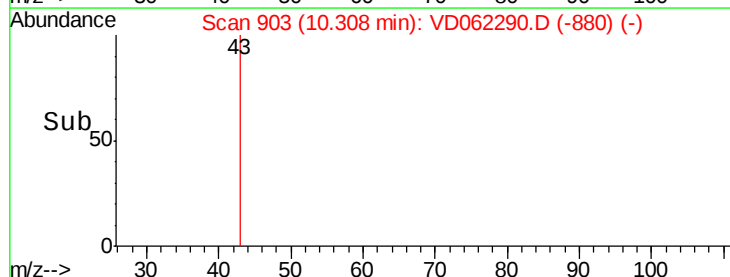
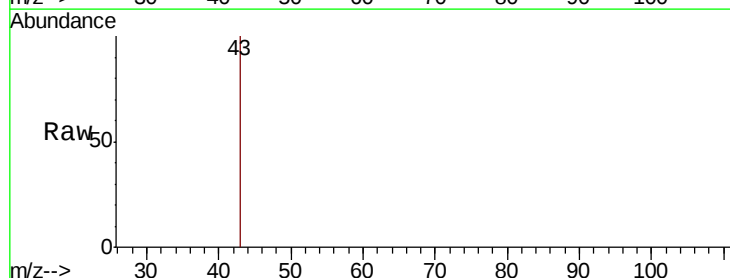
Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-004

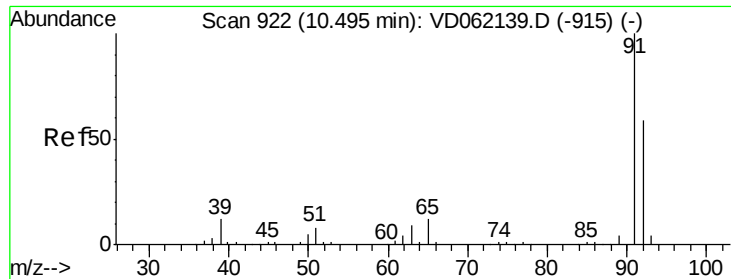
Tot Ion: 98 Resp: 57866
Ion Ratio Lower Upper
98 100
100 70.7 53.8 80.8



#51
4-Methyl-2-Pentanone
Concen: 5.515 ug/l
RT: 10.31 min Scan# 903
Delta R.T. 0.03 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

Tgt Ion: 43 Resp: 1390
Ion Ratio Lower Upper
43 100
58 0.0 30.4 45.6#





#52

Toluene

Concen: 10.811 ug/l

RT: 10.52 min Scan# 925

Delta R.T. 0.03 min

Lab File: VD062290.D

Acq: 13 May 2019 6:59

Instrument :

MSVOA_D

ClientSampleId :

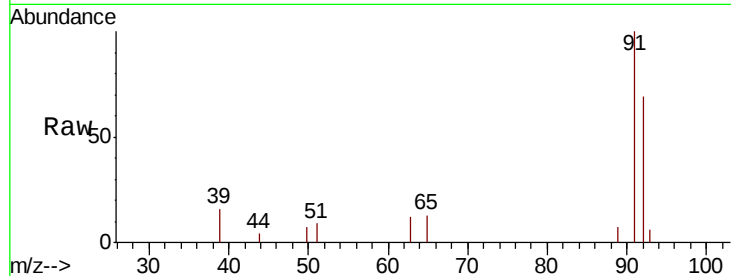
FK-0D015-03-004

Tot Ion: 92 Resp: 10355

Ion Ratio Lower Upper

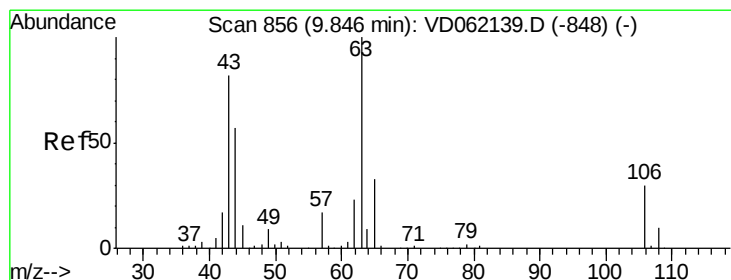
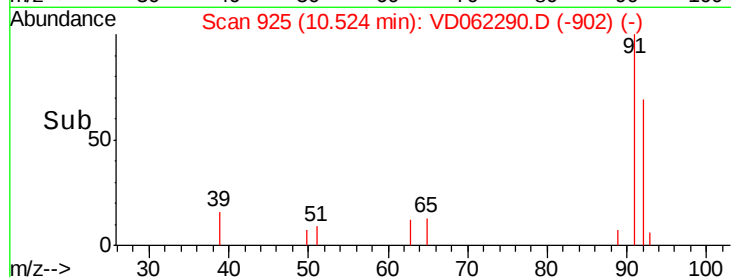
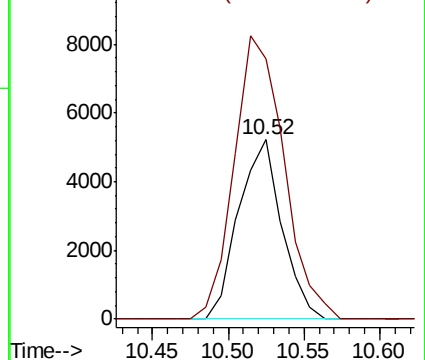
92 100

91 145.4 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 1.092 ug/l

RT: 9.87 min Scan# 859

Delta R.T. 0.03 min

Lab File: VD062290.D

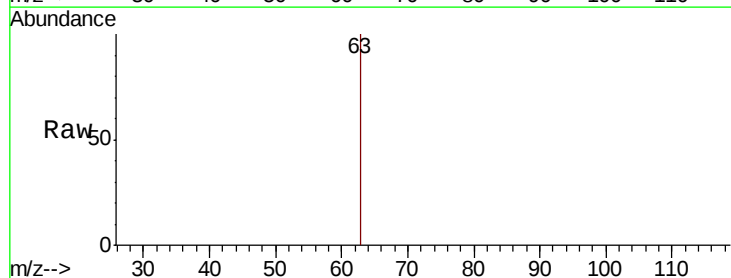
Acq: 13 May 2019 6:59

Tgt Ion: 63 Resp: 210

Ion Ratio Lower Upper

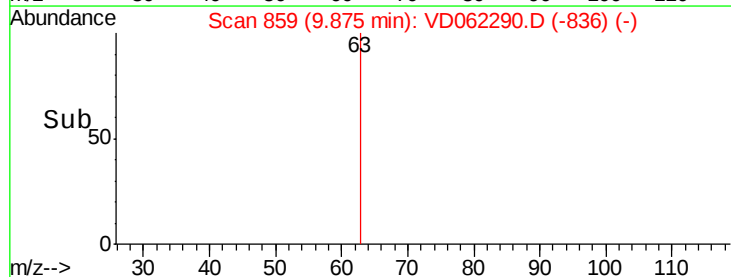
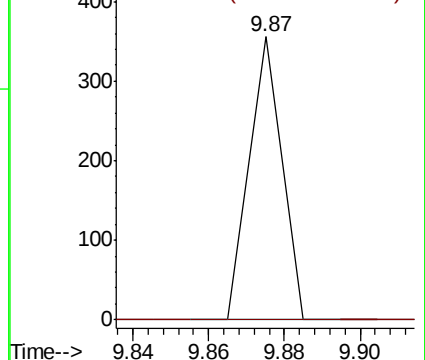
63 100

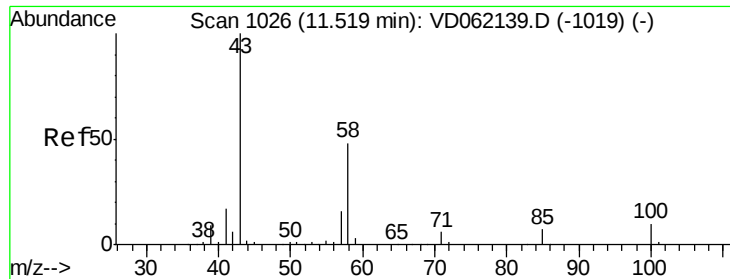
106 0.0 22.6 34.0#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V





#59

2-Hexanone

Concen: 11.880 ug/l

RT: 11.53 min Scan# 1027

Delta R.T. 0.01 min

Lab File: VD062290.D

Acq: 13 May 2019 6:59

Instrument :

MSVOA_D

ClientSampleId :

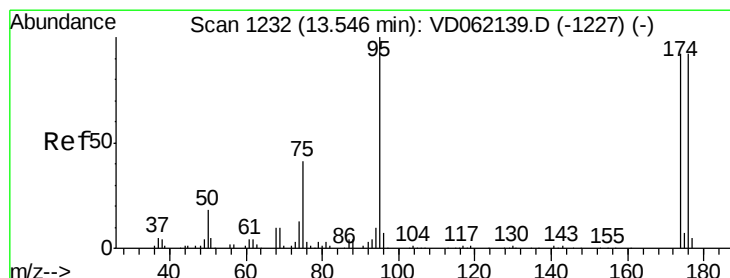
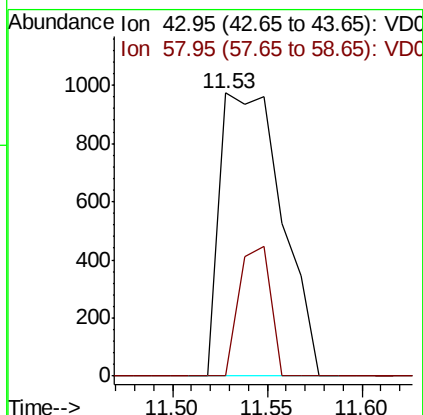
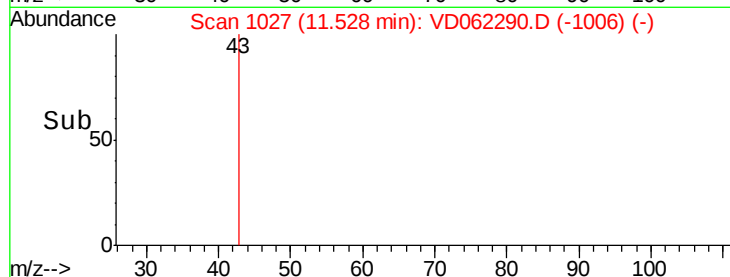
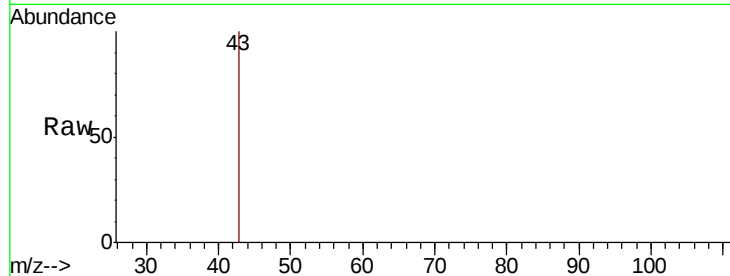
FK-0D015-03-004

Tot Ion: 43 Resp: 2207

Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.4#



#62

4-Bromofluorobenzene

Concen: 51.905 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD062290.D

Acq: 13 May 2019 6:59

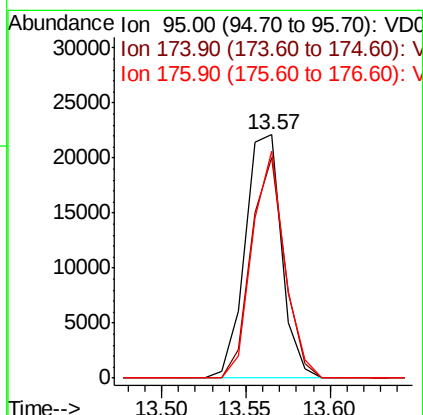
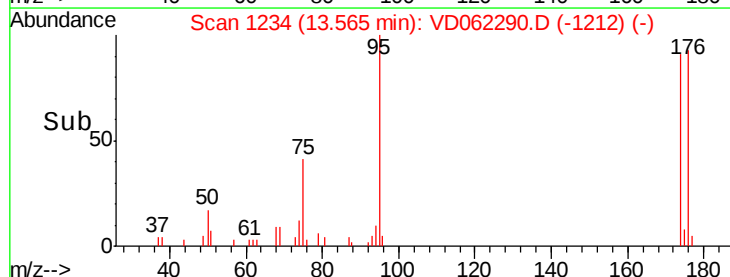
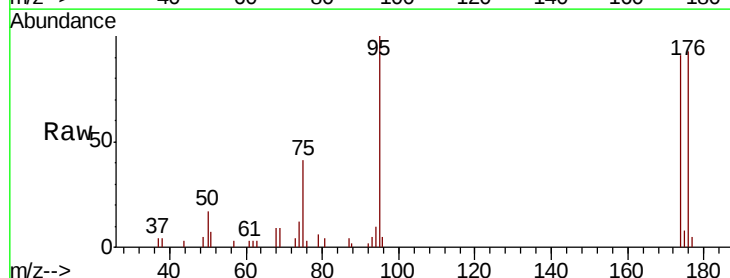
Tgt Ion: 95 Resp: 33154

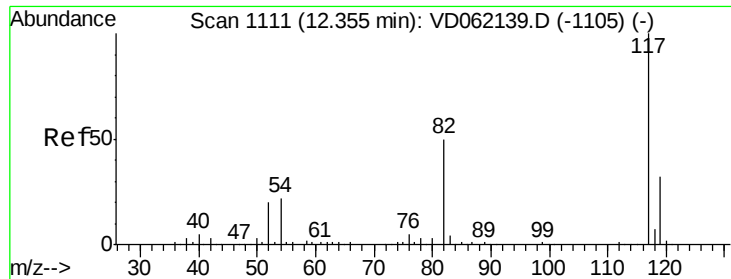
Ion Ratio Lower Upper

95 100

174 90.5 0.0 181.8

176 93.2 0.0 174.4

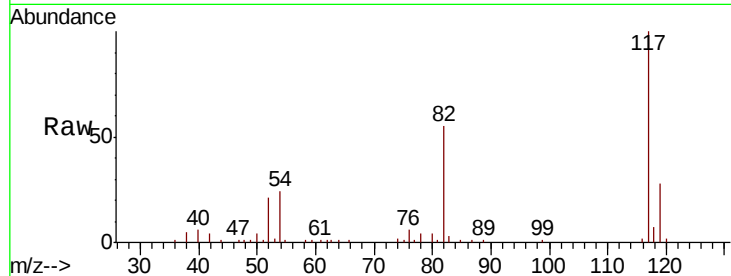




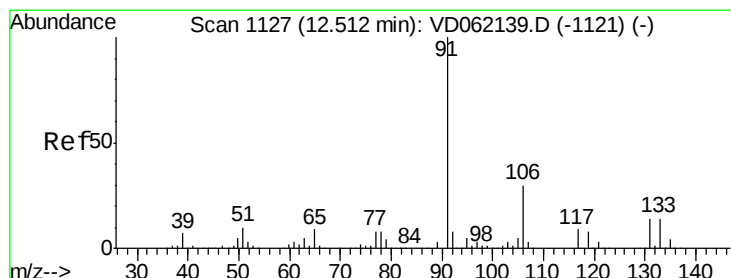
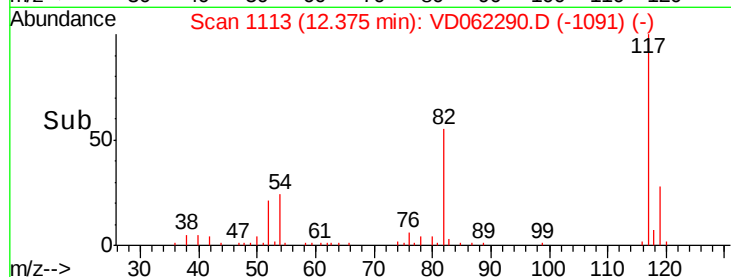
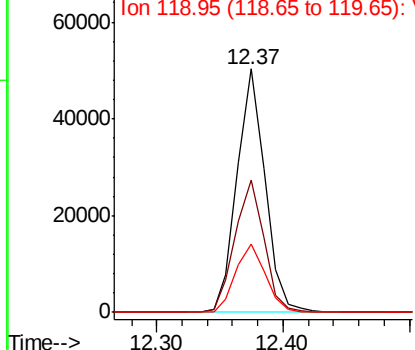
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

Instrument :
MSVOA_D
ClientSampleId :
FK-0D015-03-004

Tot Ion:117 Resp: 77557
Ion Ratio Lower Upper
117 100
82 54.6 36.2 54.2#
119 28.3 26.2 39.4

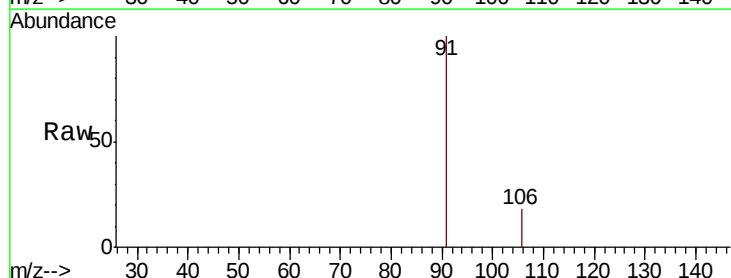


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

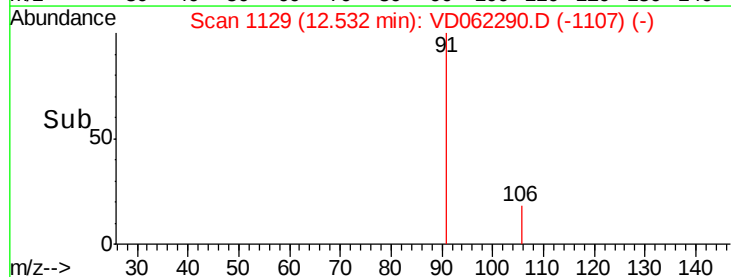
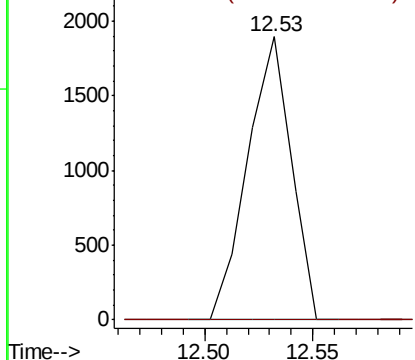


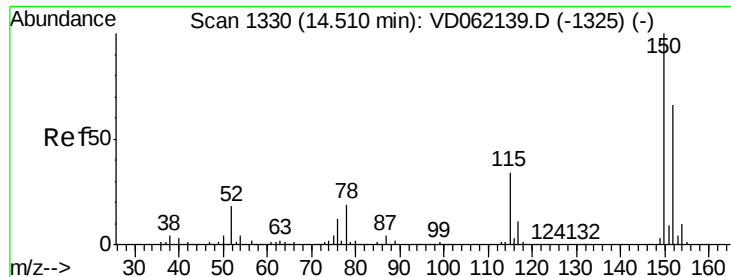
#67
Ethyl Benzene
Concen: 1.095 ug/l
RT: 12.53 min Scan# 1129
Delta R.T. 0.02 min
Lab File: VD062290.D
Acq: 13 May 2019 6:59

Tgt Ion: 91 Resp: 2648
Ion Ratio Lower Upper
91 100
106 0.0 24.7 37.1#



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.05 (105.75 to 106.75): 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: VD062290.D

Acq: 13 May 2019 6:59

Instrument :

MSVOA_D

ClientSampleId :

FK-0D015-03-004

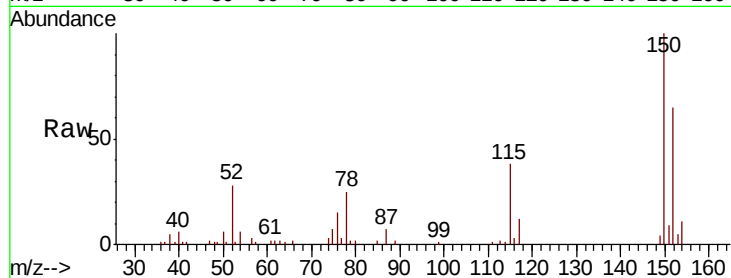
Tot Ion:152 Resp: 39951

Ion Ratio Lower Upper

152 100

115 58.2 30.9 92.7

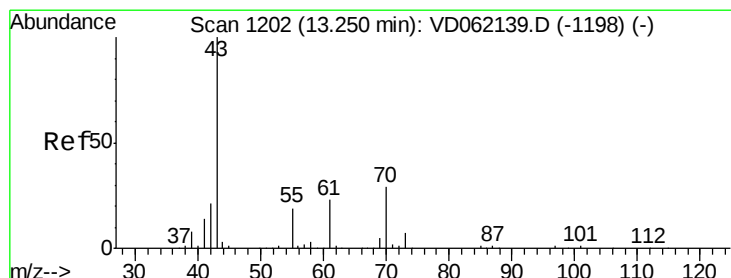
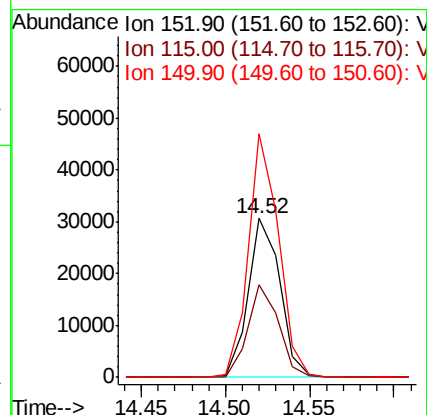
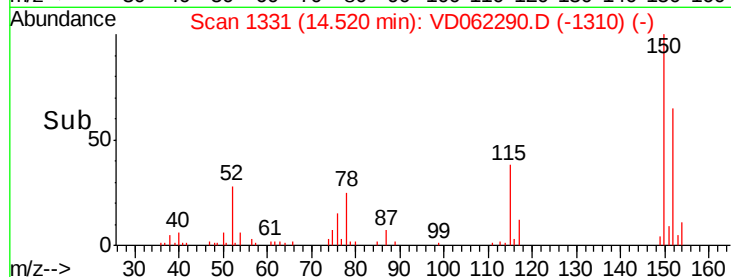
150 153.2 0.0 314.8



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



#74

N-ethyl acetate

Concen: 5.573 ug/l

RT: 13.20 min Scan# 1197

Delta R.T. -0.05 min

Lab File: VD062290.D

Acq: 13 May 2019 6:59

Tgt Ion: 43 Resp: 3499

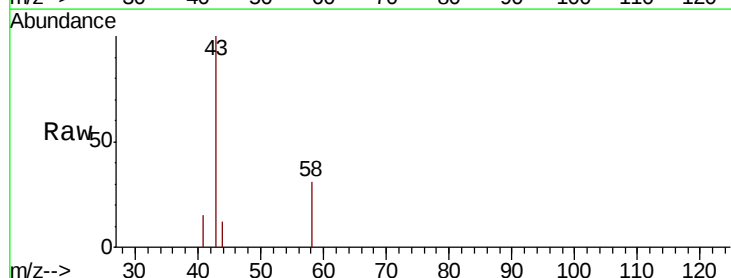
Ion Ratio Lower Upper

43 100

70 0.0 24.2 36.4#

55 0.0 16.0 24.0#

61 0.0 21.6 32.4#

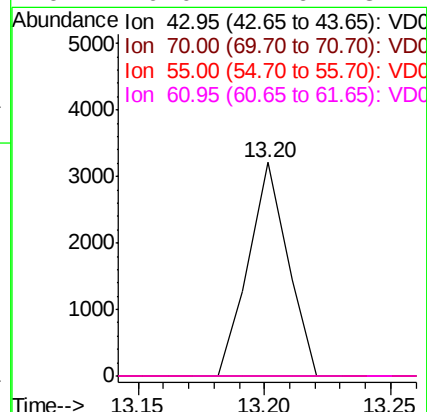
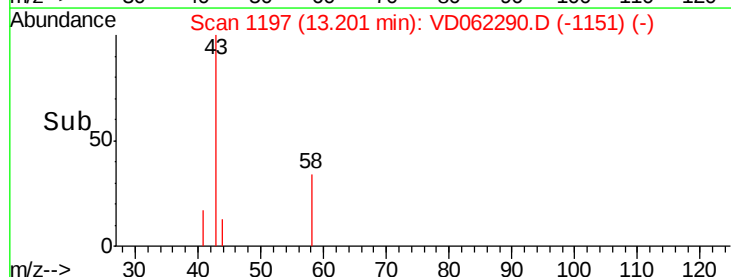


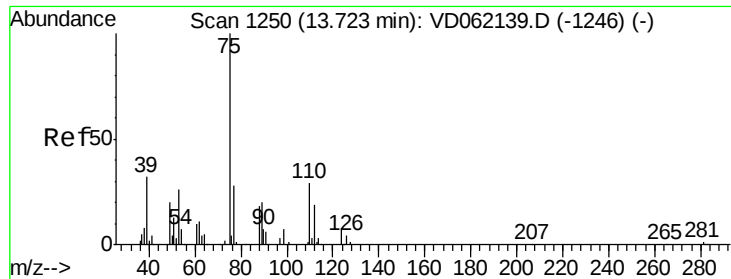
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

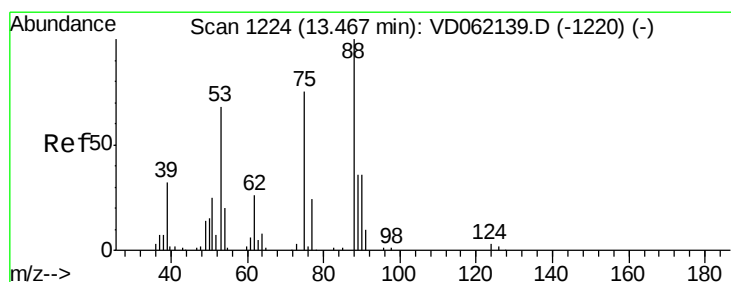
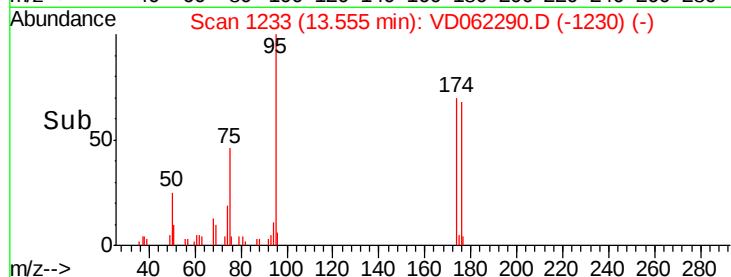
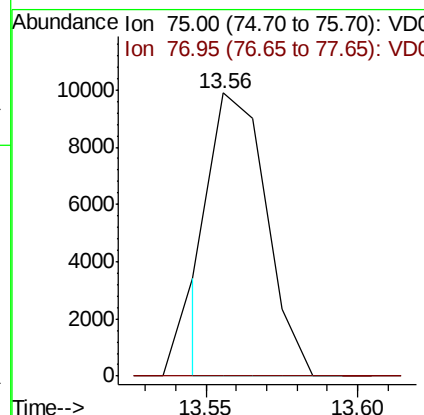
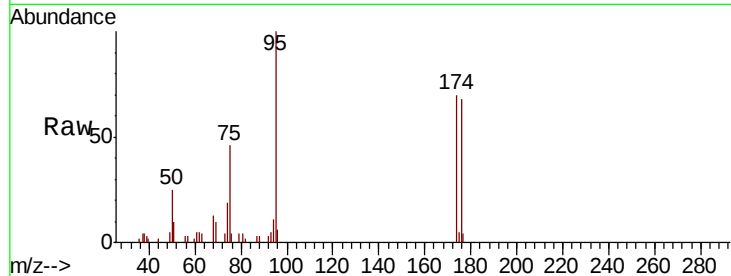




#76
 1,2,3-Trichloropropane
 Concen: 26.450 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.17 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

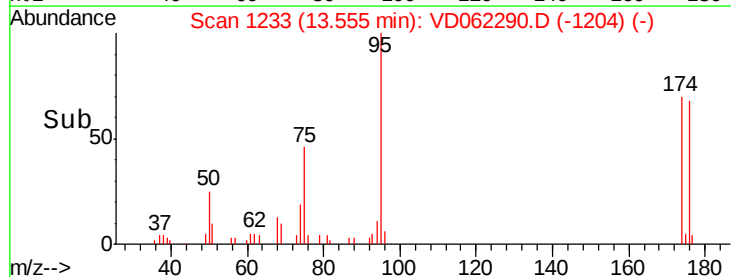
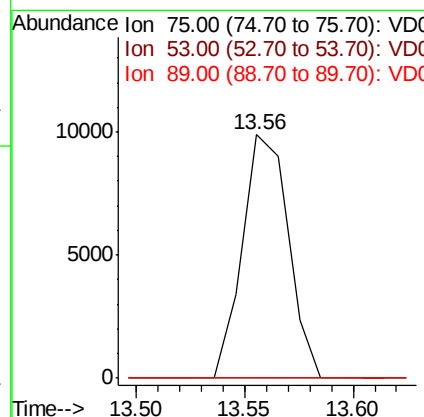
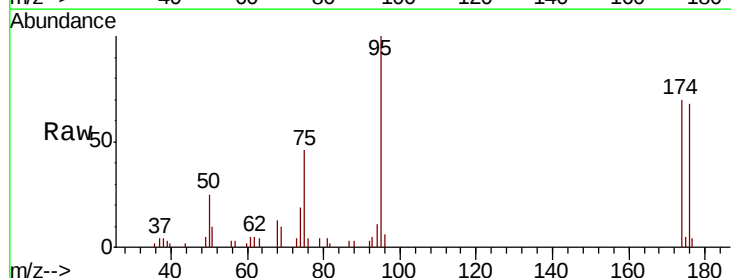
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-004

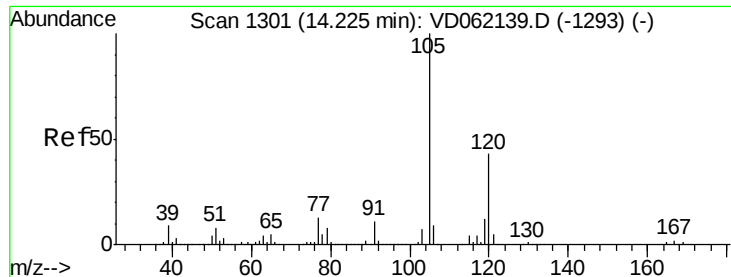
Tot Ion: 75 Resp: 12558
 Ion Ratio Lower Upper
 75 100
 77 0.0 16.4 49.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.711 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.09 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

Tgt Ion: 75 Resp: 14571
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.8#
 89 0.0 35.0 52.6#

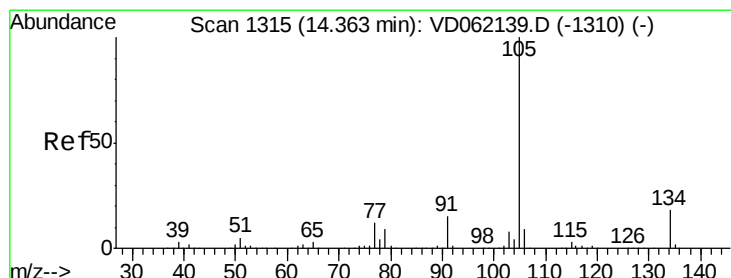
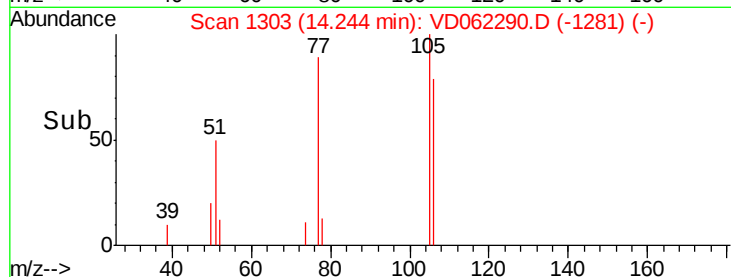
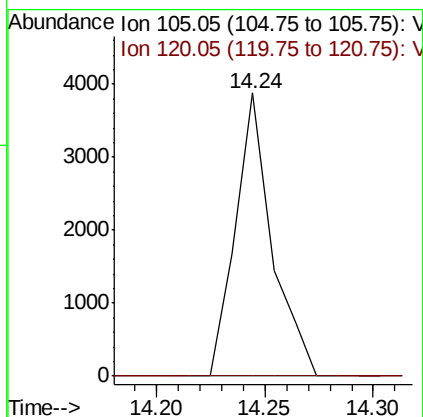
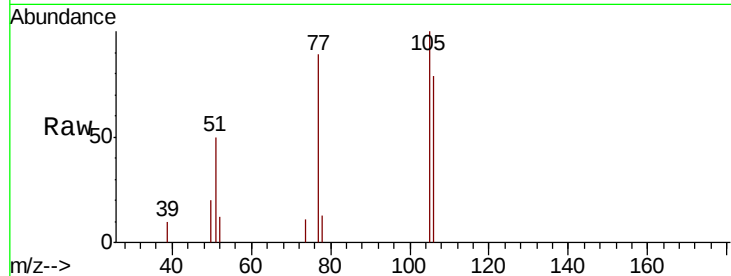




#84
 1,2,4-Trimethylbenzene
 Concen: 2.251 ug/l
 RT: 14.24 min Scan# 1303
 Delta R.T. 0.02 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

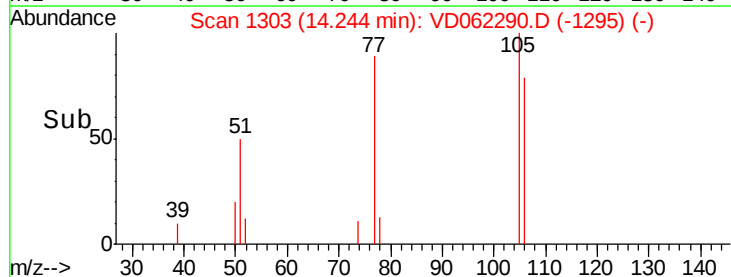
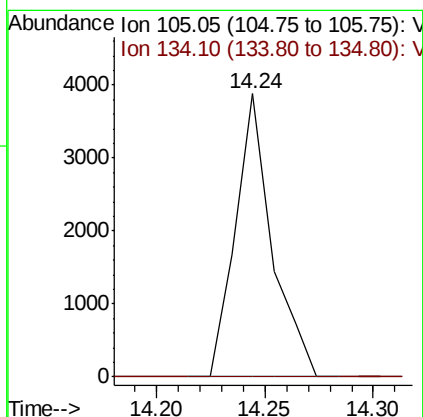
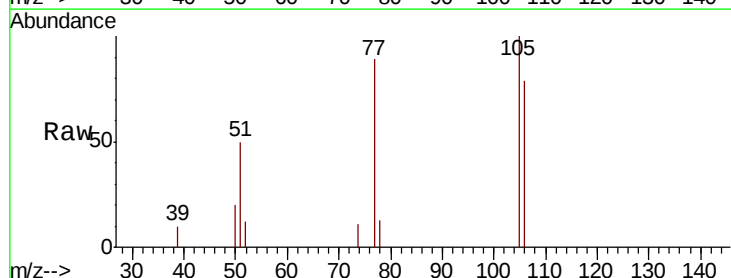
Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-004

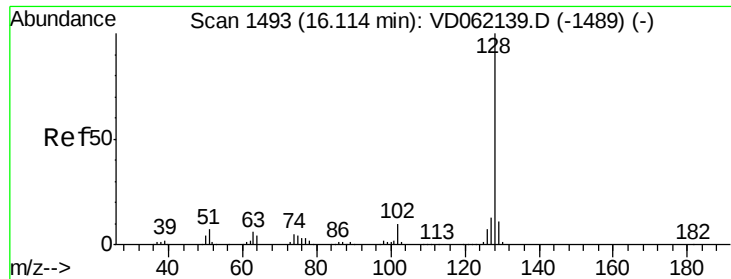
Tot Ion:105 Resp: 4556
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.2#



#85
 sec-Butylbenzene
 Concen: 1.833 ug/l
 RT: 14.24 min Scan# 1303
 Delta R.T. -0.12 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

Tgt Ion:105 Resp: 4556
 Ion Ratio Lower Upper
 105 100
 134 0.0 8.9 26.7#





#95
 Naphthalene
 Concen: 3.454 ug/l
 RT: 16.12 min Scan# 1494
 Delta R.T. 0.01 min
 Lab File: VD062290.D
 Acq: 13 May 2019 6:59

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-0D015-03-004

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	9.8	14.8#
129	0.0	8.8	13.2#

