

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062270.D
 Acq On : 12 May 2019 20:23
 Operator : FY/SY
 Sample : K2733-15
 Misc : 5.32g/5mL/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS003-0206-01

Quant Time: May 13 01:35:44 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	425024	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.22	114	614091	50.00	ug/l	0.03
63) Chlorobenzene-d5	12.38	117	465536	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	179877	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	204511	51.78	ug/l	0.04
Spiked Amount			Recovery	=	103.56%	
35) Dibromofluoromethane	6.93	113	250346	49.13	ug/l	0.04
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	10.42	98	414186	33.72	ug/l	0.02
Spiked Amount			Recovery	=	67.44%	
62) 4-Bromofluorobenzene	13.56	95	173462	35.16	ug/l	0.01
Spiked Amount			Recovery	=	70.32%	

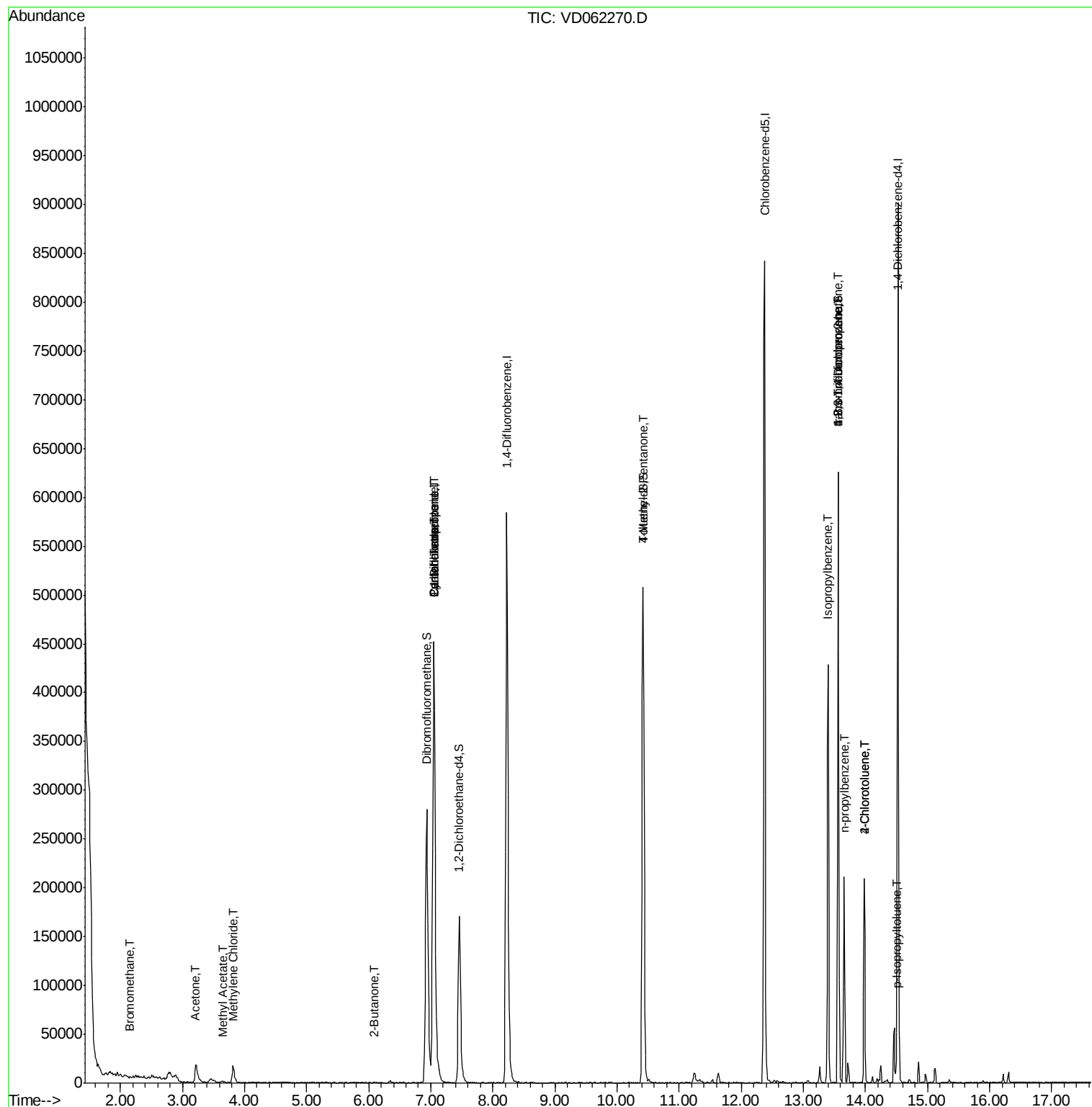
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.15	94	1398	2.067	ug/l #	12
16) Acetone	3.21	43	39733	47.968	ug/l #	88
18) Methyl Acetate	3.64	43	3388	1.996	ug/l #	53
20) Methylene Chloride	3.82	84	11704	3.384	ug/l #	89
25) 2-Butanone	6.08	43	1427	1.579	ug/l #	56
31) Cyclohexane	7.04	56	8847	2.135	ug/l #	8
36) 1,1-Dichloropropene	7.05	75	32339	6.423	ug/l #	49
38) Carbon Tetrachloride	7.05	117	43384	6.225	ug/l #	16
51) 4-Methyl-2-Pentanone	10.42	43	2261	1.162	ug/l #	1
73) Isopropylbenzene	13.40	105	16372	1.518	ug/l #	66
76) 1,2,3-Trichloropropane	13.56	75	75347	35.247	ug/l #	43
78) n-propylbenzene	13.66	91	19739	1.535	ug/l #	54
79) 2-Chlorotoluene	13.98	91	19923	2.705	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.56	75	76553	126.852	ug/l #	16
82) 4-Chlorotoluene	13.98	91	21806	2.516	ug/l #	37
86) p-Isopropyltoluene	14.49	119	11437	1.144	ug/l #	88

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

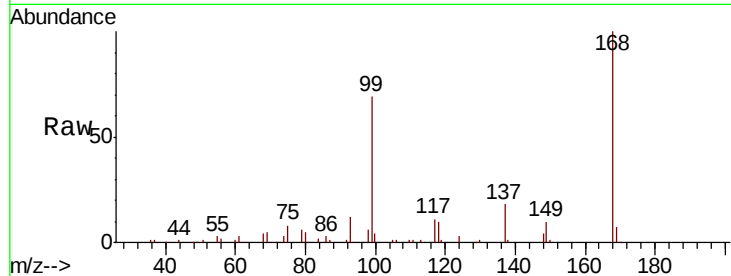
P021-SS003-0206-01

Tot Ion:168 Resp: 425024

Ion Ratio Lower Upper

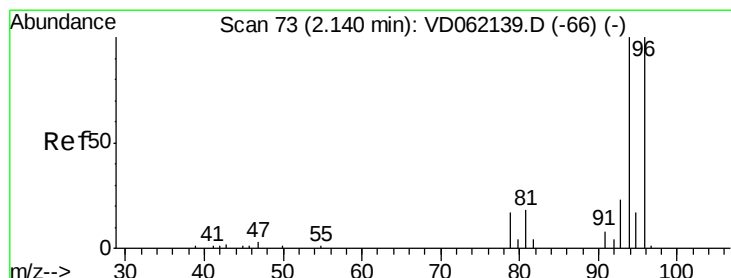
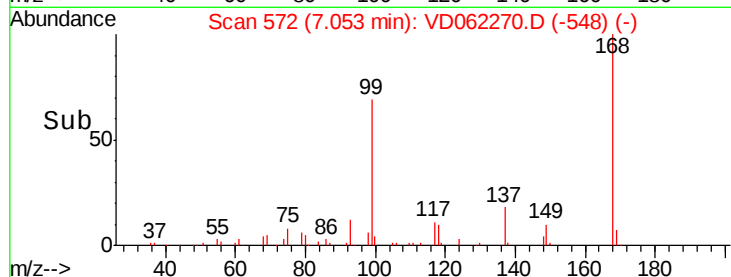
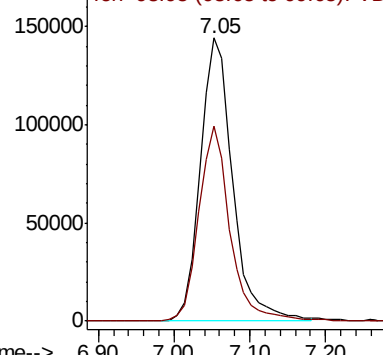
168 100

99 69.1 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: 2.067 ug/l

RT: 2.15 min Scan# 74

Delta R.T. 0.01 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

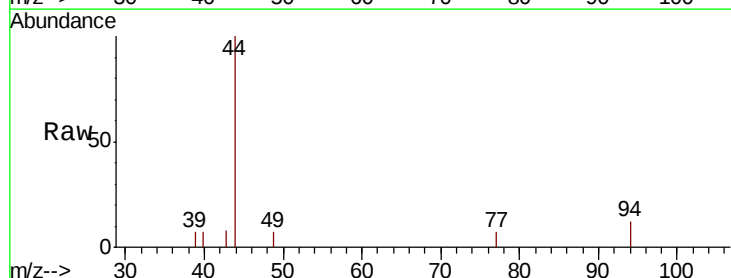
Tgt Ion: 94 Resp: 1398

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

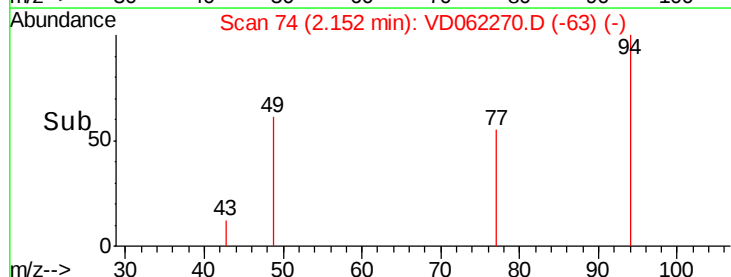
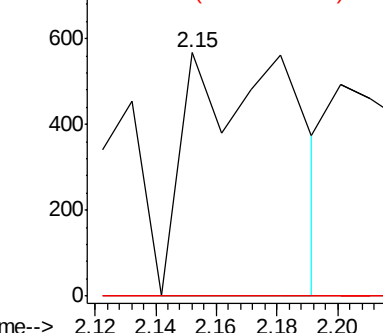
93 0.0 18.5 27.7#



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





#16

Acetone

Concen: 47.968 ug/l

RT: 3.21 min Scan# 182

Delta R.T. 0.02 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

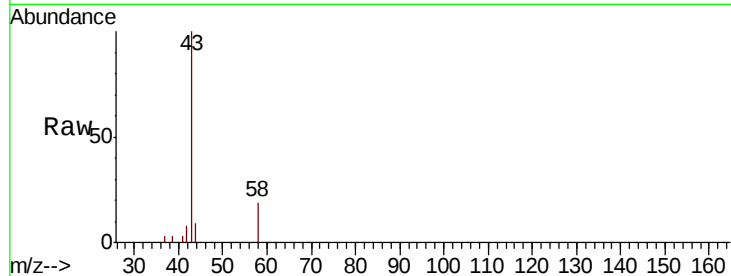
P021-SS003-0206-01

Tot Ion: 43 Resp: 39733

Ion Ratio Lower Upper

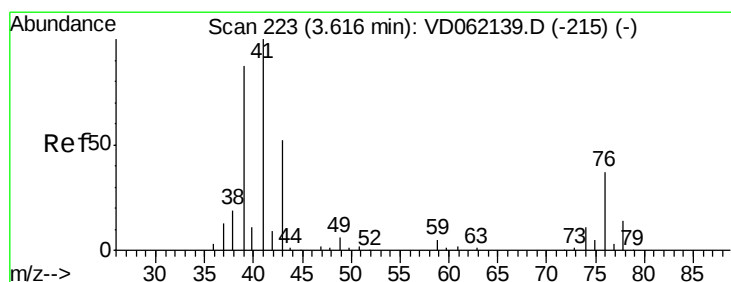
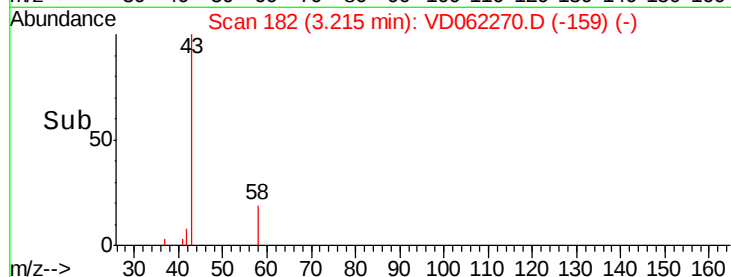
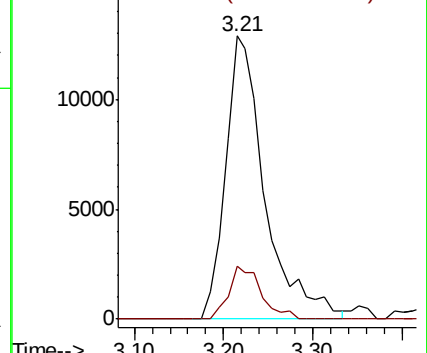
43 100

58 18.9 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 1.996 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.02 min

Lab File: VD062270.D

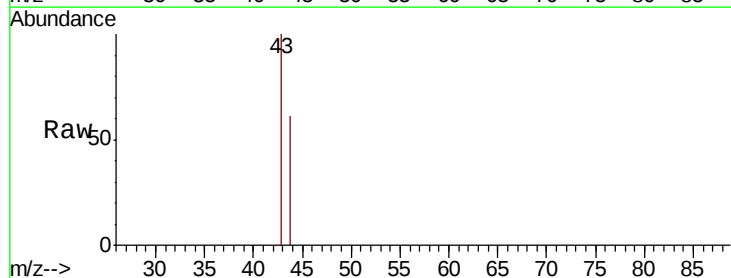
Acq: 12 May 2019 20:23

Tgt Ion: 43 Resp: 3388

Ion Ratio Lower Upper

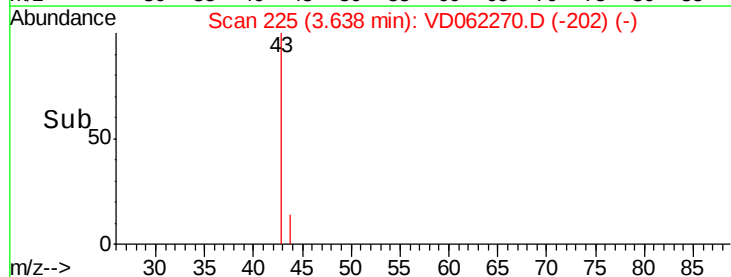
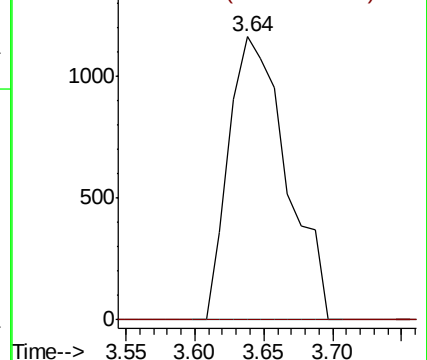
43 100

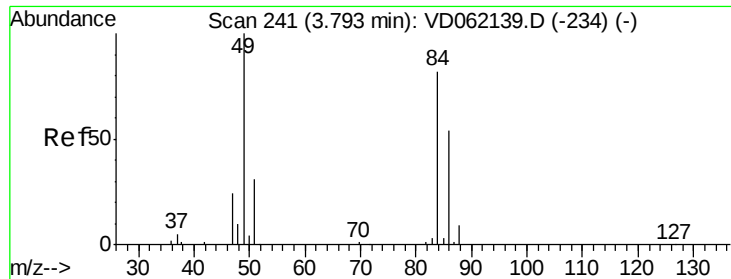
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

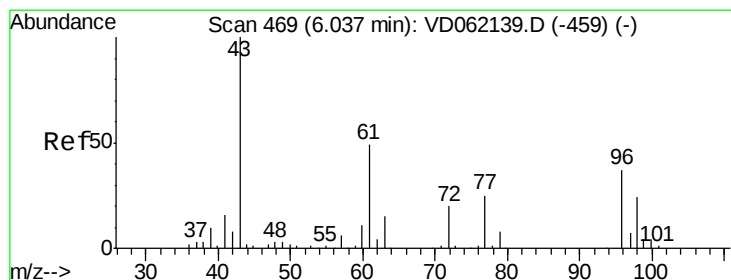
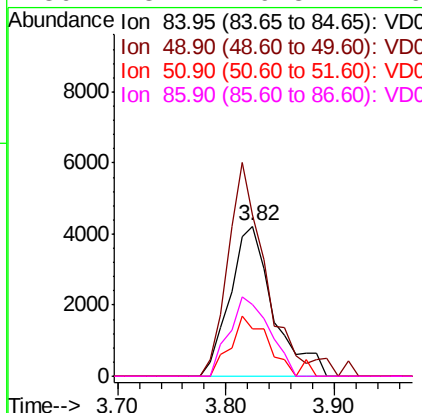
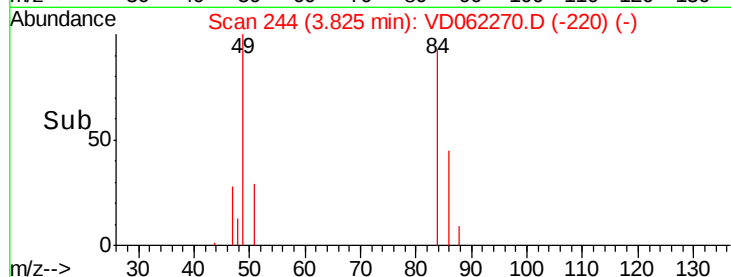
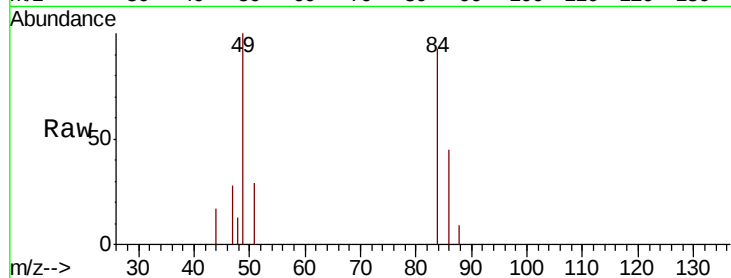




#20
Methylene Chloride
Concen: 3.384 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD062270.D
Acq: 12 May 2019 20:23

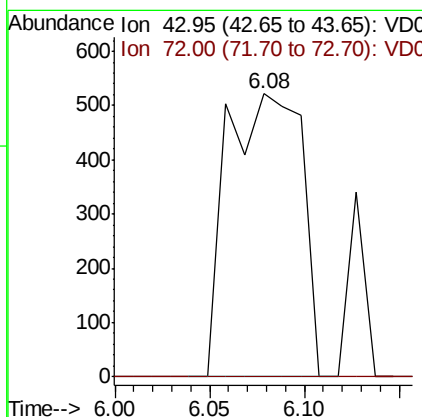
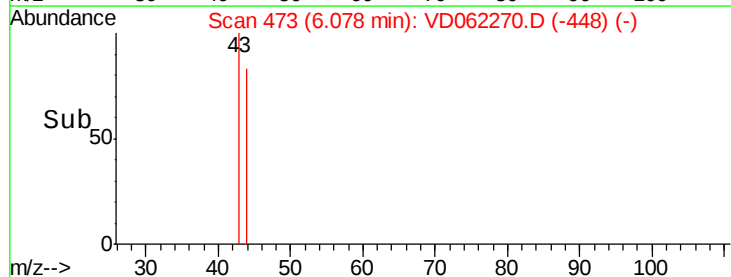
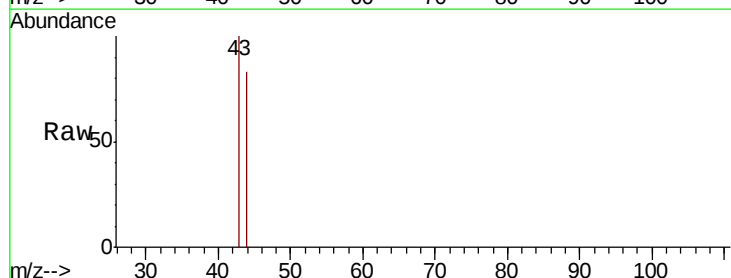
Instrument :
MSVOA_D
ClientSampleId :
P021-SS003-0206-01

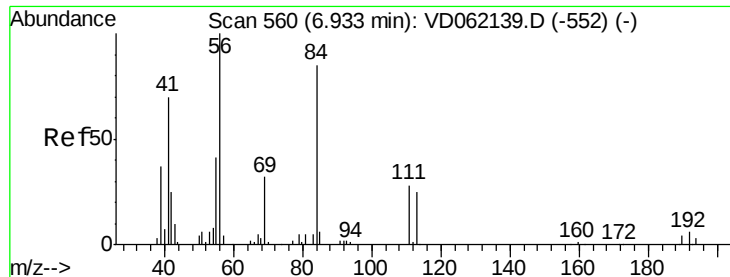
Tot Ion: 84 Resp: 11704
Ion Ratio Lower Upper
84 100
49 107.9 94.0 141.0
51 31.4 29.0 43.4
86 48.1 49.8 74.6#



#25
2-Butanone
Concen: 1.579 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.04 min
Lab File: VD062270.D
Acq: 12 May 2019 20:23

Tgt Ion: 43 Resp: 1427
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#

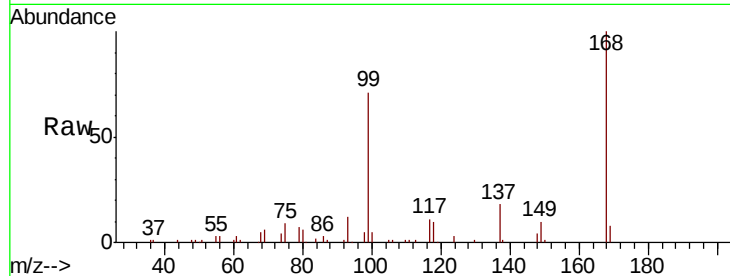




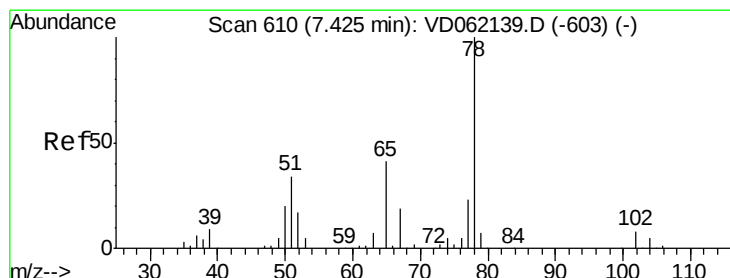
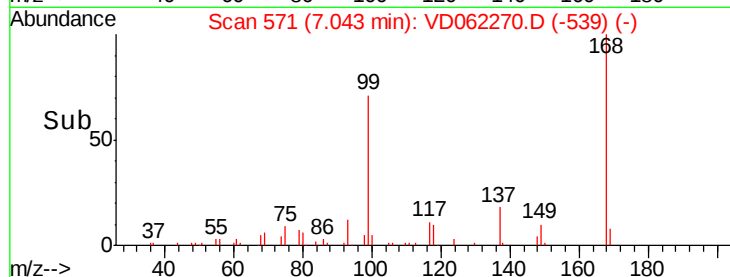
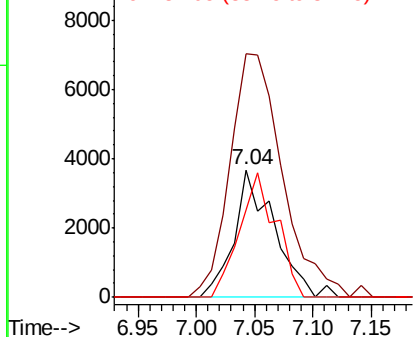
#31
Cvclohexane
Concen: 2.135 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.11 min
Lab File: VD062270.D
Acq: 12 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P021-SS003-0206-01

Tot Ion: 56 Resp: 8847
Ion Ratio Lower Upper
56 100
69 190.8 25.8 38.6#
84 68.1 72.2 108.4#

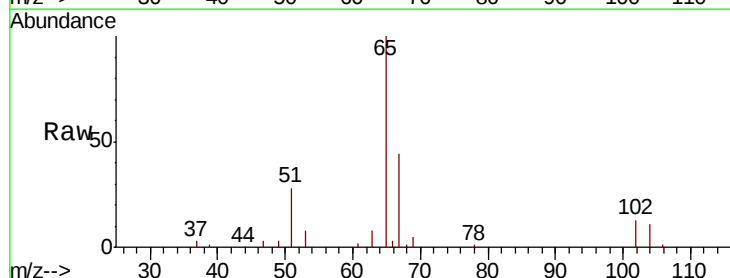


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

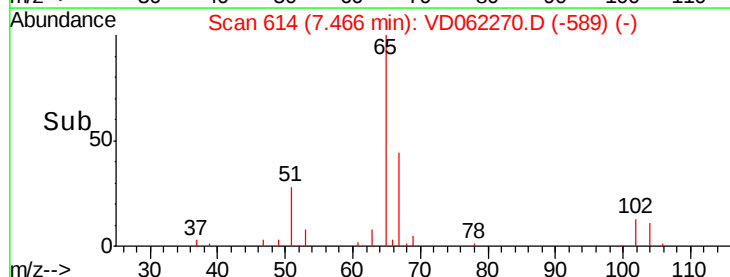
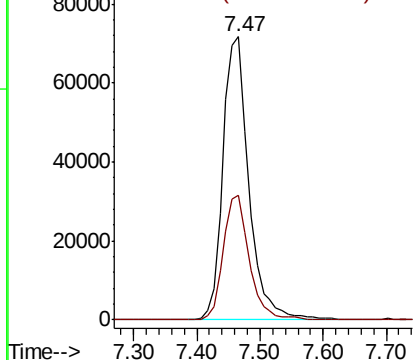


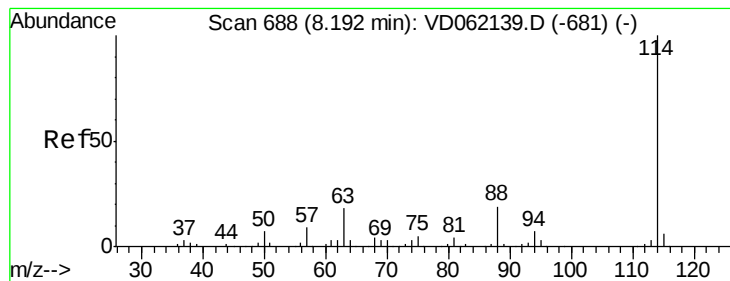
#33
1,2-Dichloroethane-d4
Concen: 51.778 ug/l
RT: 7.47 min Scan# 614
Delta R.T. 0.04 min
Lab File: VD062270.D
Acq: 12 May 2019 20:23

Tgt Ion: 65 Resp: 204511
Ion Ratio Lower Upper
65 100
67 43.8 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: VD062270.D

Acq: 12 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P021-SS003-0206-01

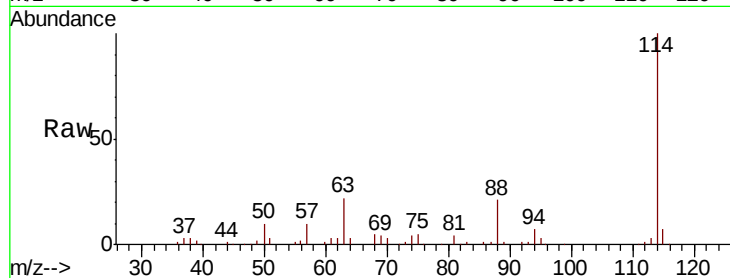
Tot Ion:114 Resp: 614091

Ion Ratio Lower Upper

114 100

63 22.0 0.0 32.4

88 20.5 0.0 33.6



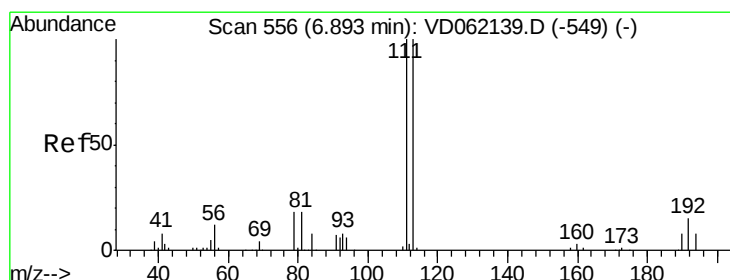
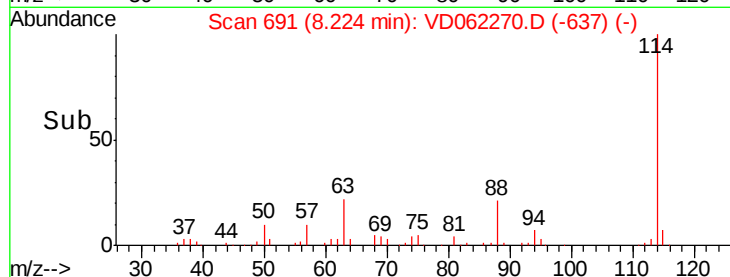
Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V

8.22

Time-->



#35

Dibromofluoromethane

Concen: 49.134 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.04 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

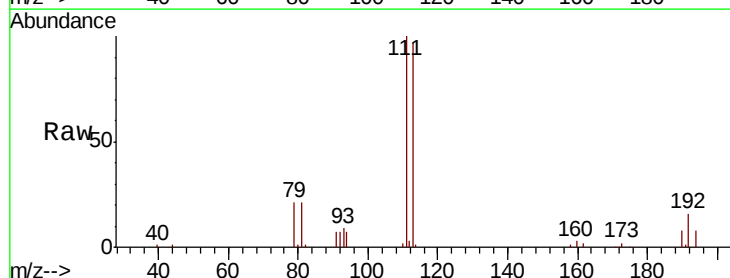
Tgt Ion:113 Resp: 250346

Ion Ratio Lower Upper

113 100

111 103.3 78.5 117.7

192 16.8 13.0 19.4



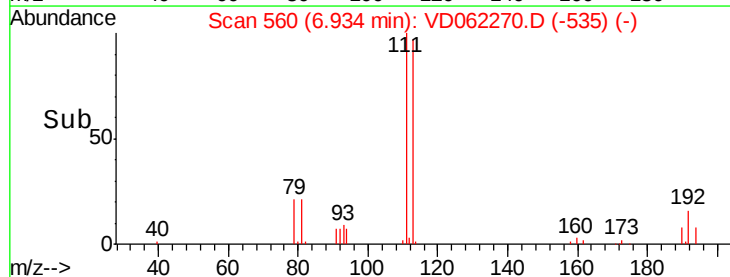
Abundance Ion 112.90 (112.60 to 113.60): V

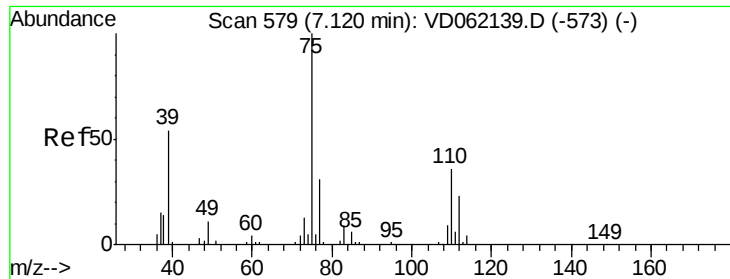
Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

6.93

Time-->

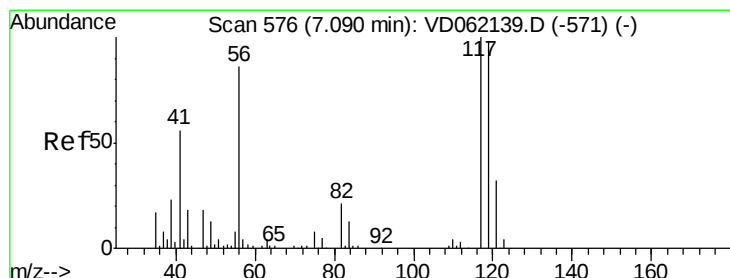
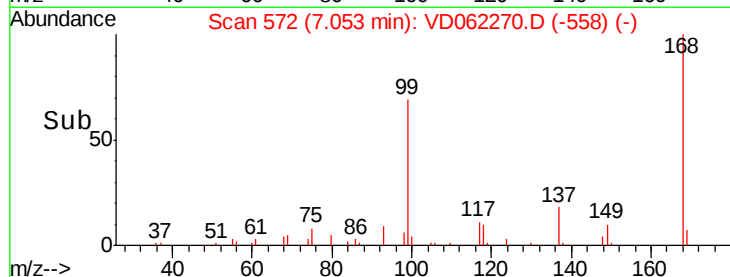
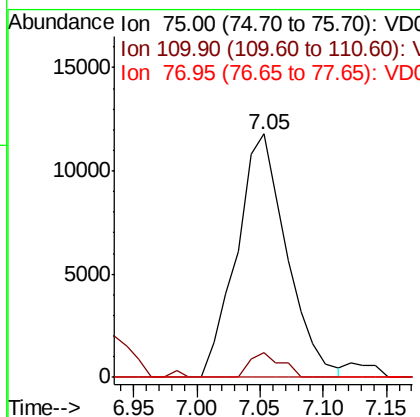
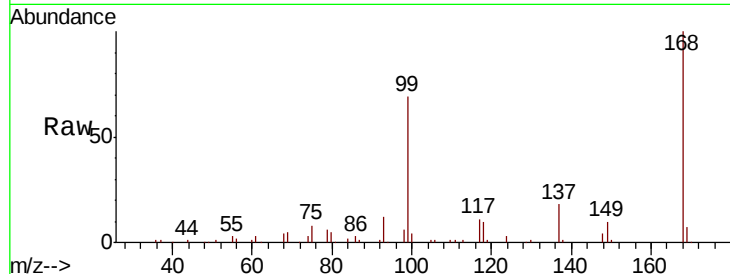




#36
 1,1-Dichloropropene
 Concen: 6.423 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.07 min
 Lab File: VD062270.D
 Acq: 12 May 2019 20:23

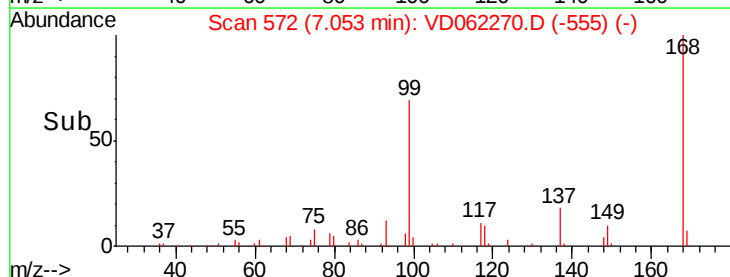
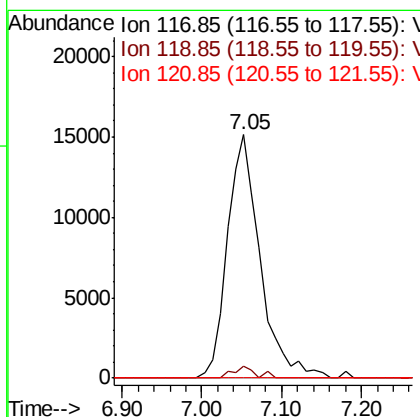
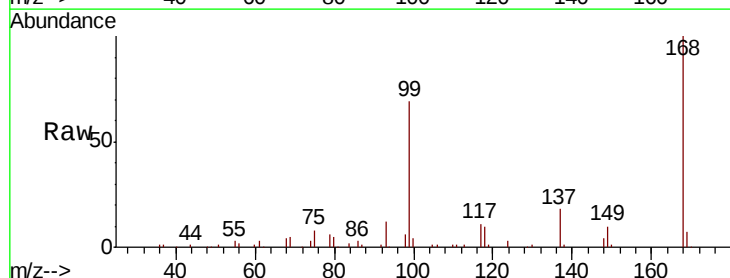
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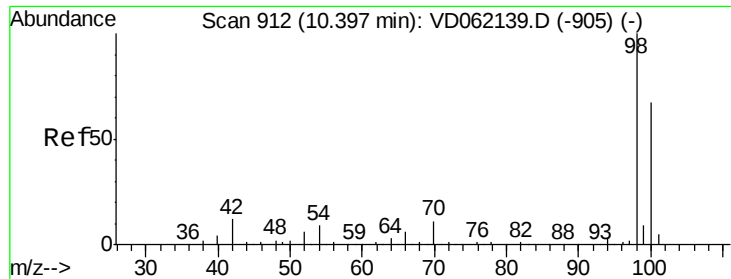
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	19.1	57.1#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 6.225 ug/l
 RT: 7.05 min Scan# 572
 Delta R.T. -0.04 min
 Lab File: VD062270.D
 Acq: 12 May 2019 20:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	75.8	113.8#
121	0.0	25.9	38.9#





#50

Toluene-d8

Concen: 33.715 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

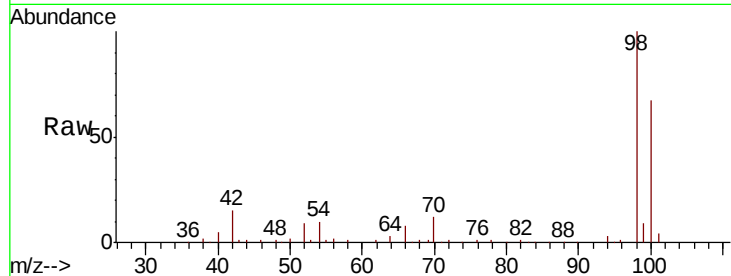
P021-SS003-0206-01

Tot Ion: 98 Resp: 414186

Ion Ratio Lower Upper

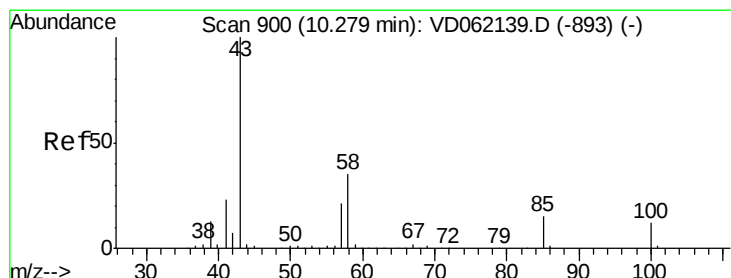
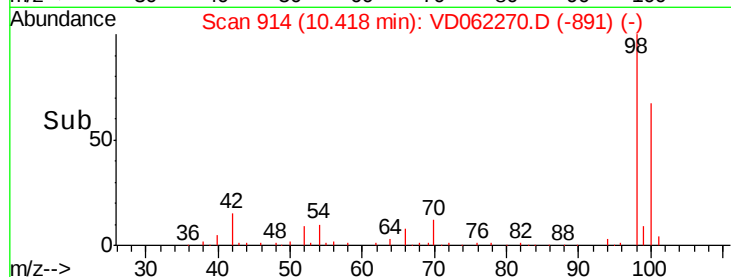
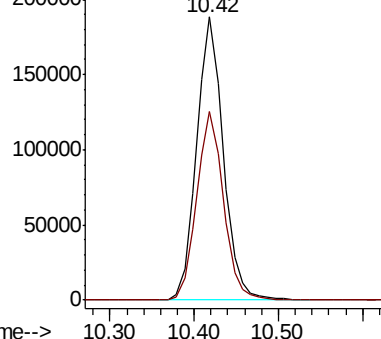
98 100

100 66.8 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 1.162 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.14 min

Lab File: VD062270.D

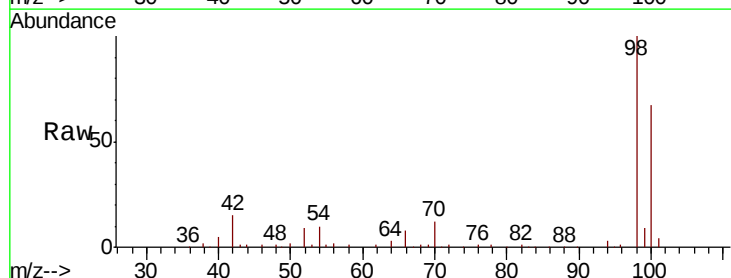
Acq: 12 May 2019 20:23

Tgt Ion: 43 Resp: 2261

Ion Ratio Lower Upper

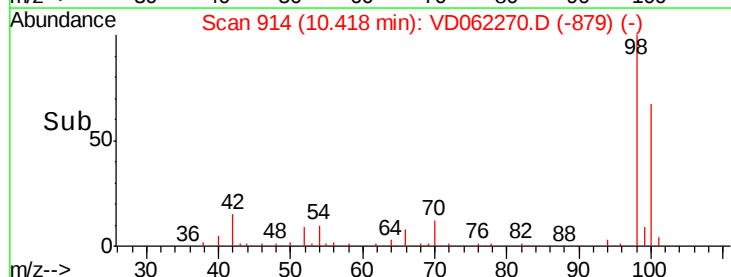
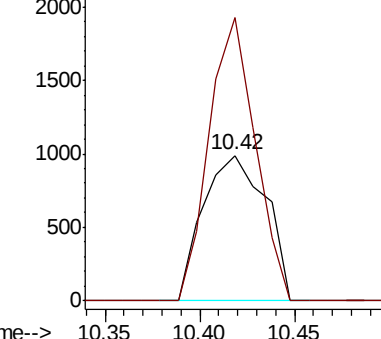
43 100

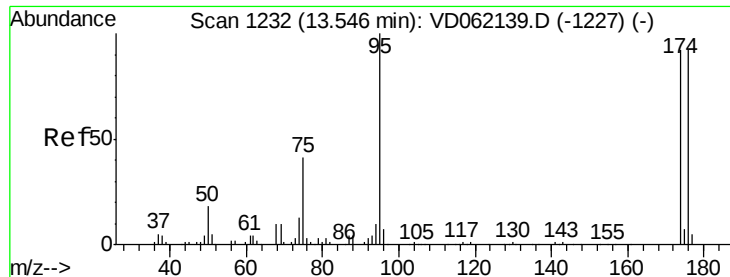
58 194.4 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: 35.162 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P021-SS003-0206-01

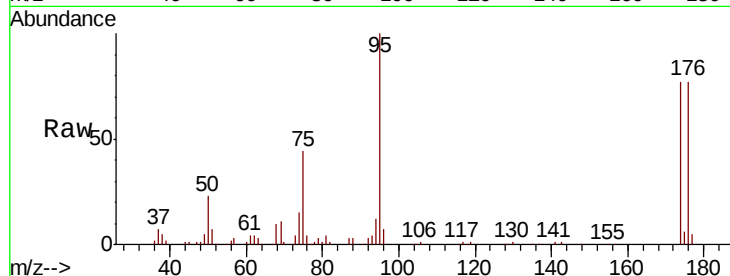
Tot Ion: 95 Resp: 173462

Ion Ratio Lower Upper

95 100

174 77.3 0.0 181.8

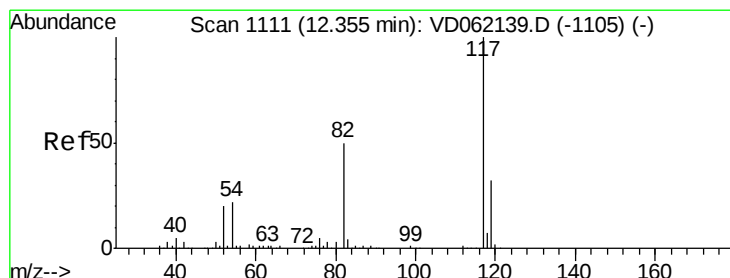
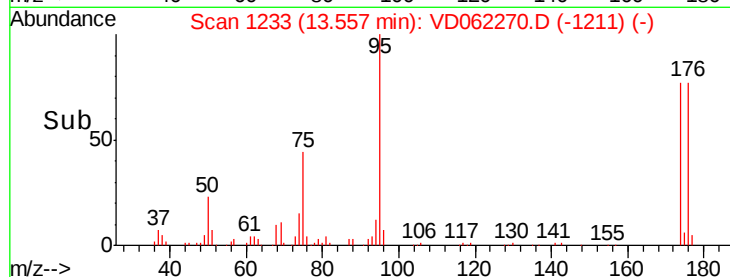
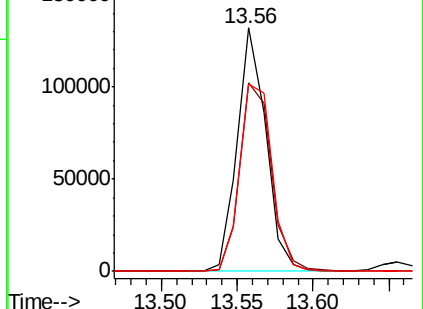
176 76.7 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

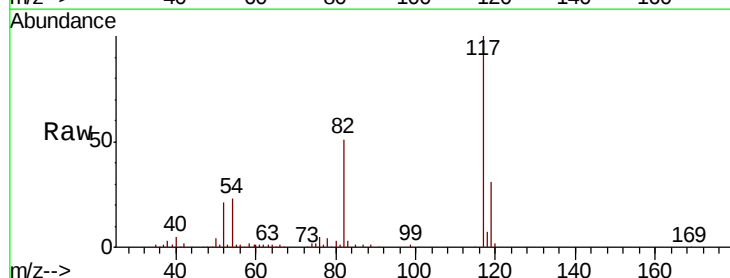
Tgt Ion: 117 Resp: 465536

Ion Ratio Lower Upper

117 100

82 50.9 36.2 54.2

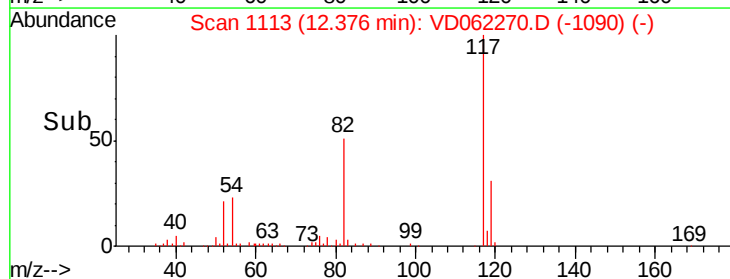
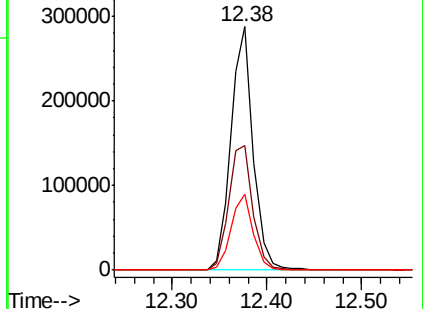
119 31.0 26.2 39.4

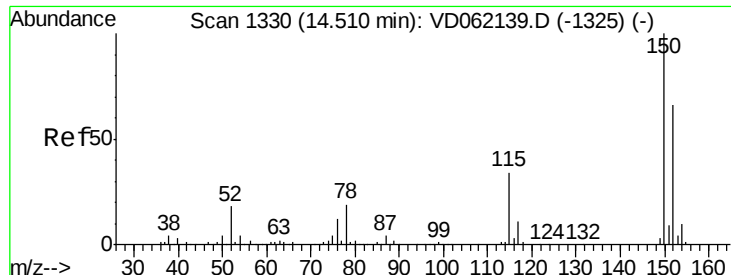


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

P021-SS003-0206-01

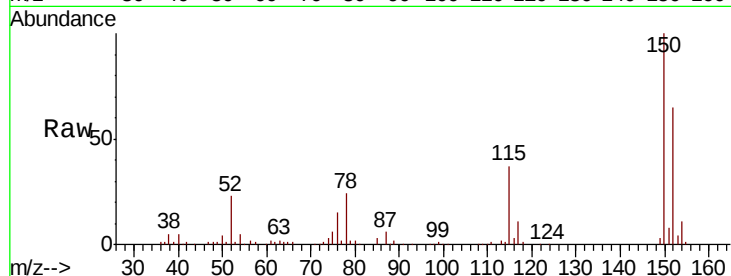
Tot Ion:152 Resp: 179877

Ion Ratio Lower Upper

152 100

115 56.6 30.9 92.7

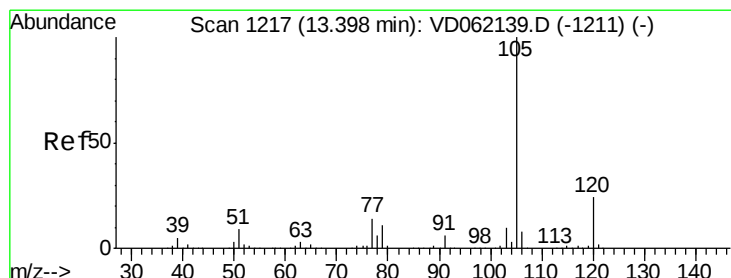
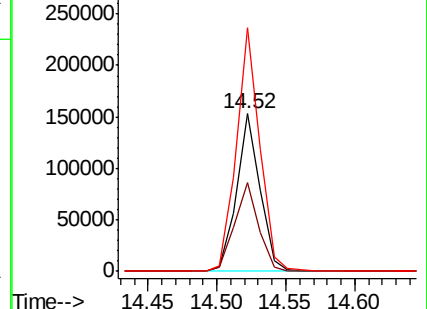
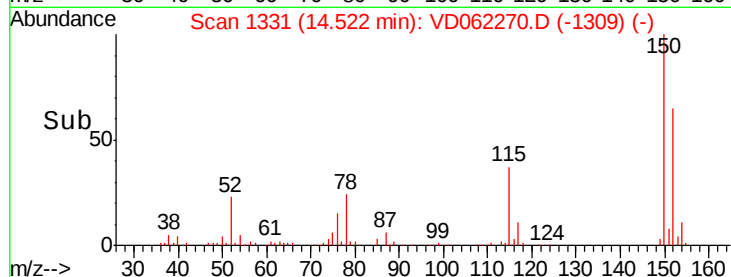
150 154.5 0.0 314.8



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: 1.518 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062270.D

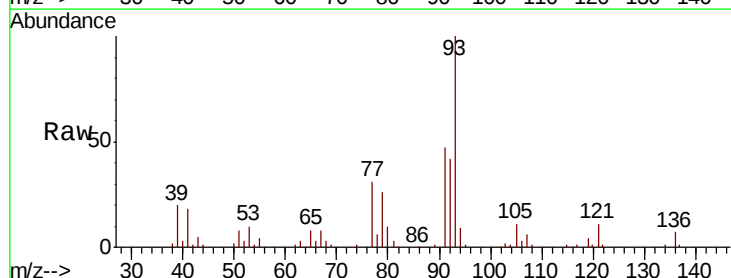
Acq: 12 May 2019 20:23

Tgt Ion:105 Resp: 16372

Ion Ratio Lower Upper

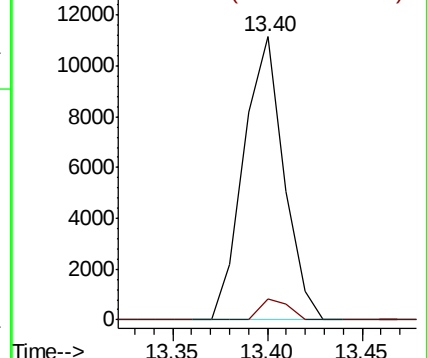
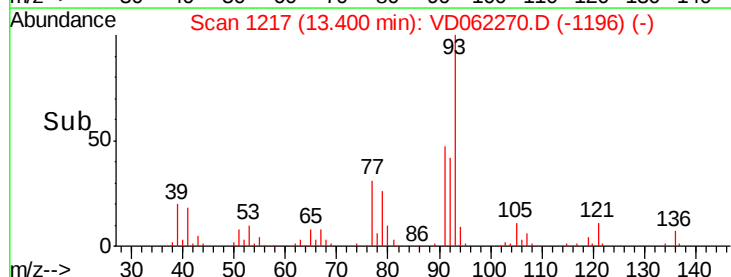
105 100

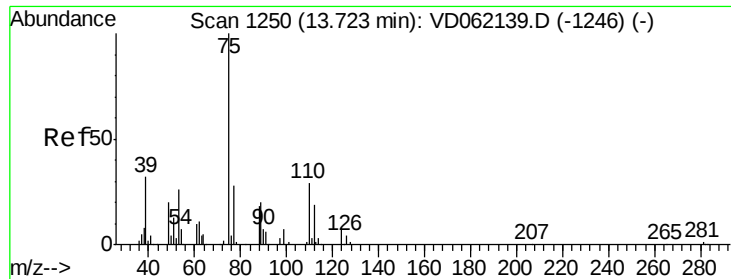
120 7.3 12.0 36.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

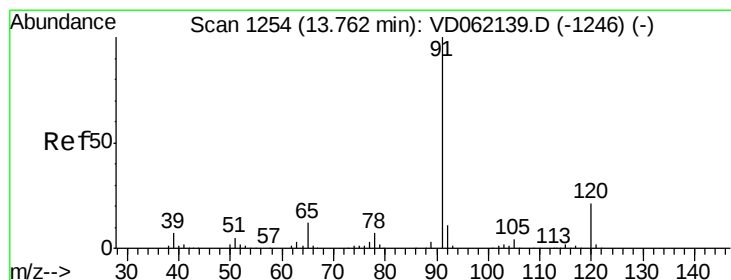
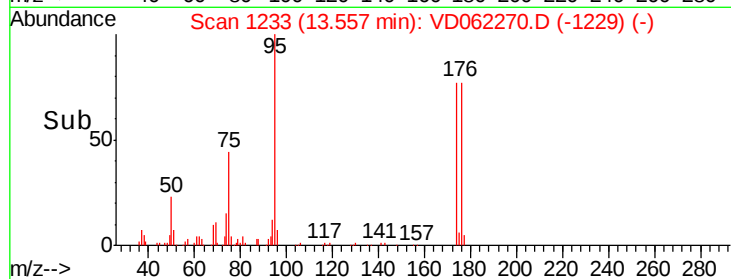
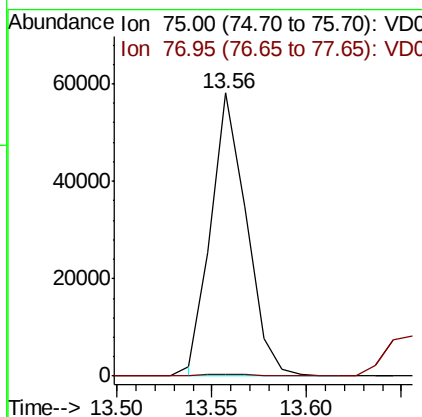
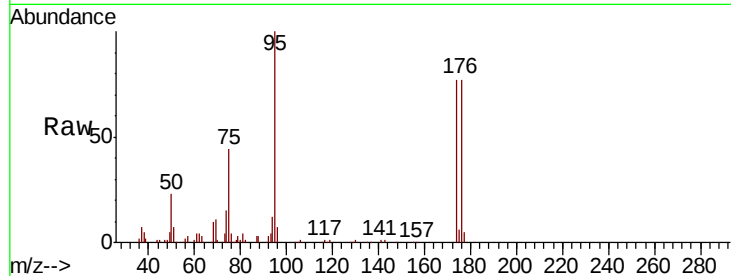




#76
 1,2,3-Trichloropropane
 Concen: 35.247 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. -0.17 min
 Lab File: VD062270.D
 Acq: 12 May 2019 20:23

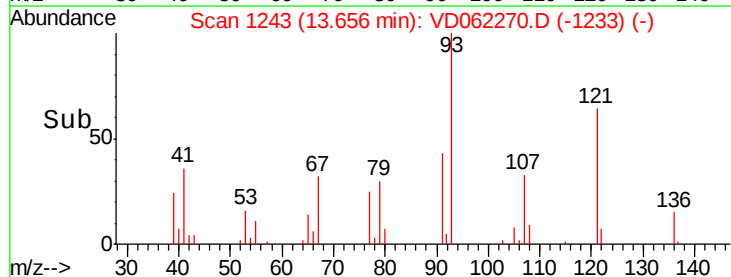
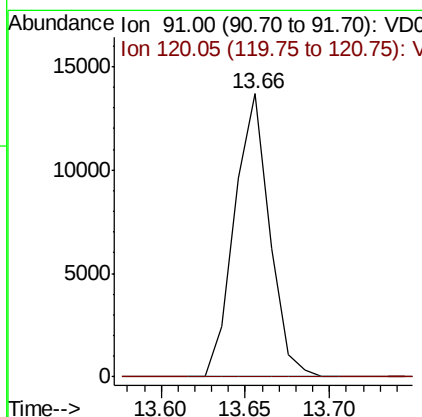
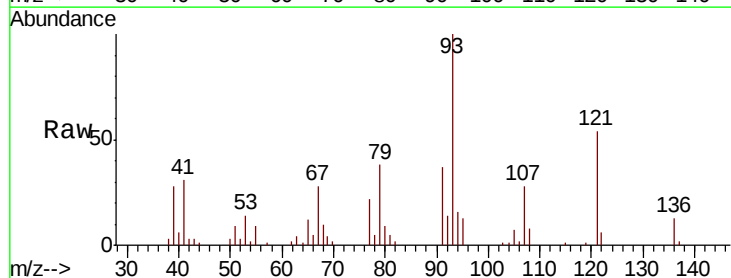
Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS003-0206-01

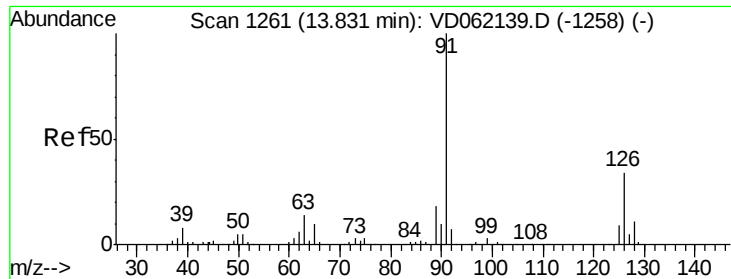
Tot Ion: 75 Resp: 75347
 Ion Ratio Lower Upper
 75 100
 77 0.5 16.4 49.4#



#78
 n-propylbenzene
 Concen: 1.535 ug/l
 RT: 13.66 min Scan# 1243
 Delta R.T. -0.11 min
 Lab File: VD062270.D
 Acq: 12 May 2019 20:23

Tgt Ion: 91 Resp: 19739
 Ion Ratio Lower Upper
 91 100
 120 0.0 11.1 33.1#





#79

2-Chlorotoluene

Concen: 2.705 ug/l

RT: 13.98 min Scan# 1276

Delta R.T. 0.15 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

Instrument :

MSVOA_D

ClientSampleId :

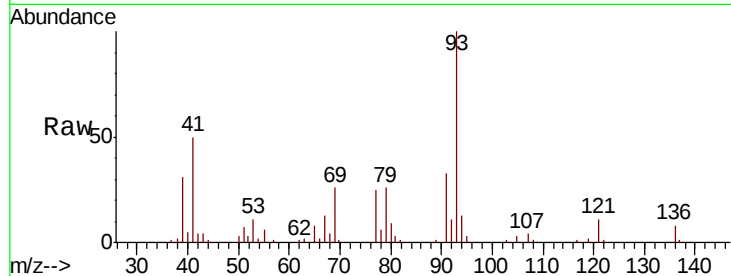
P021-SS003-0206-01

Tot Ion: 91 Resp: 19923

Ion Ratio Lower Upper

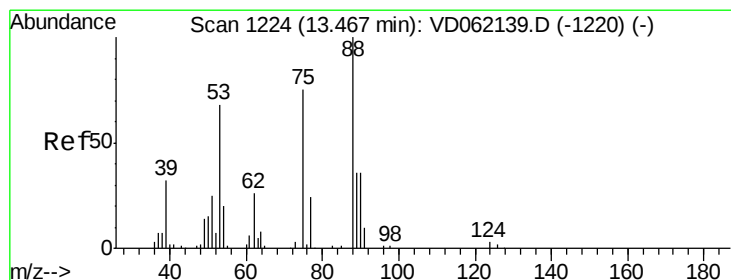
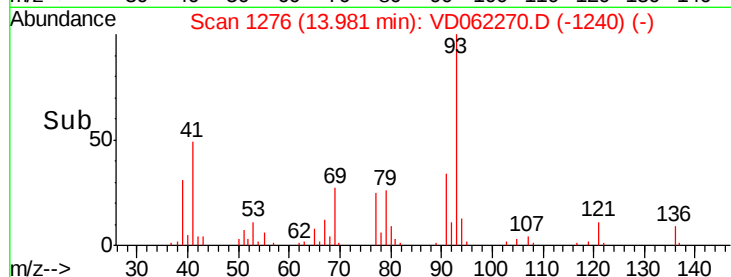
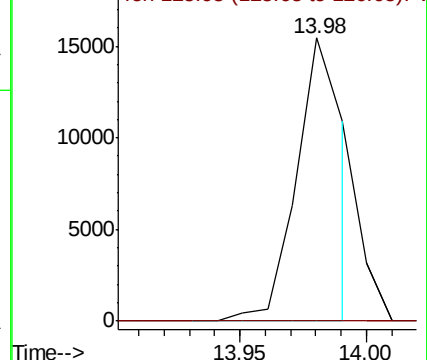
91 100

126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V



#81

trans-1,4-Dichloro-2-butene

Concen: 126.852 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD062270.D

Acq: 12 May 2019 20:23

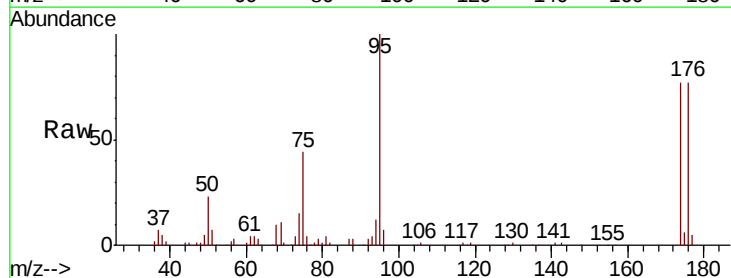
Tgt Ion: 75 Resp: 76553

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

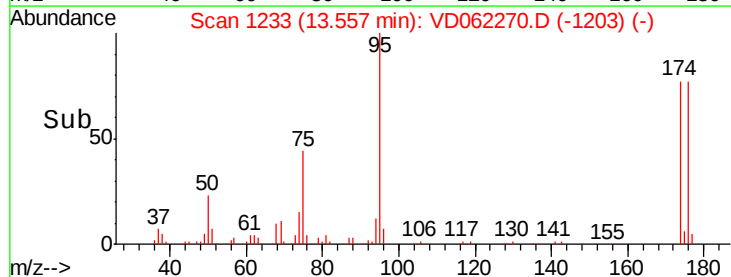
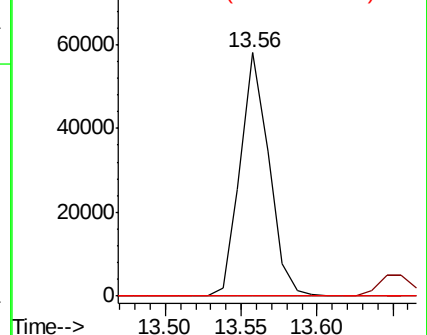
89 0.0 35.0 52.6#

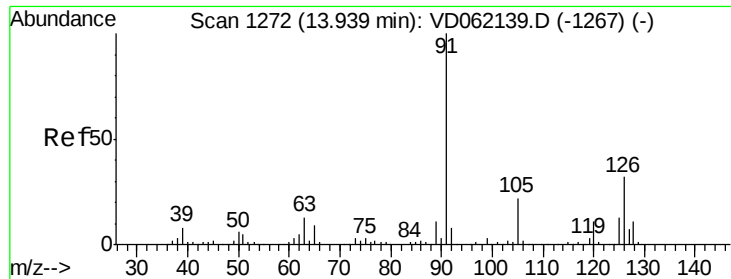


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

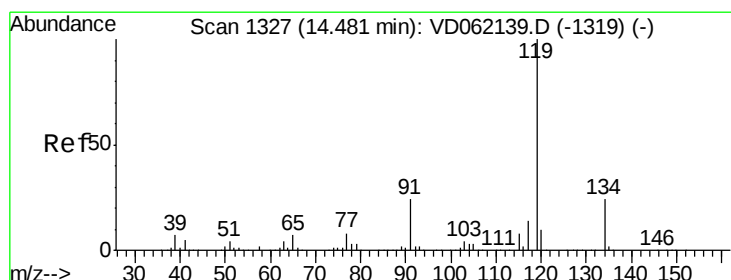
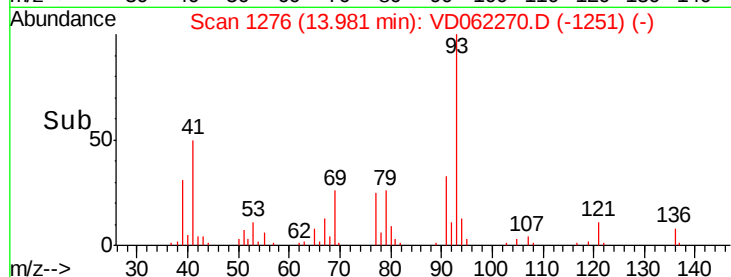
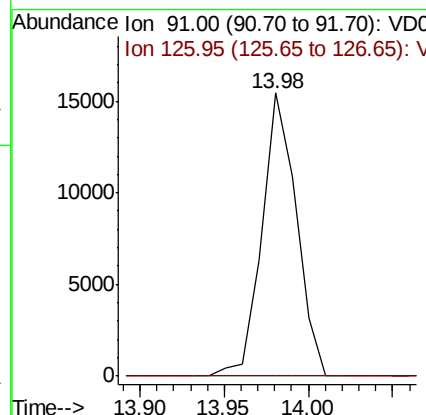
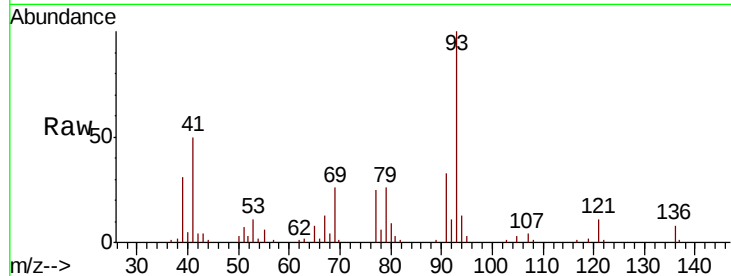




#82
4-Chlorotoluene
Concen: 2.516 ug/l
RT: 13.98 min Scan# 1276
Delta R.T. 0.04 min
Lab File: VD062270.D
Acq: 12 May 2019 20:23

Instrument :
MSVOA_D
ClientSampleId :
P021-SS003-0206-01

Tot Ion: 91 Resp: 21806
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#



#86
p-Isopropyltoluene
Concen: 1.144 ug/l
RT: 14.49 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD062270.D
Acq: 12 May 2019 20:23

Tgt Ion: 119 Resp: 11437
Ion Ratio Lower Upper
119 100
134 25.1 12.8 38.3
91 33.5 10.7 32.1#

