

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062774.D
 Acq On : 19 Jun 2019 5:06
 Operator : VA/AP
 Sample : K3157-07
 Misc : 6.44g/5ml/MSVOA D/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 07:05:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	444085	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	643045	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	304650	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	98183	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	350186	54.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.30%	
35) Dibromofluoromethane	6.93	113	325892	48.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.10%	
50) Toluene-d8	10.41	98	287829	20.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	40.36%	
62) 4-Bromofluorobenzene	13.55	95	122233	18.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	36.72%	

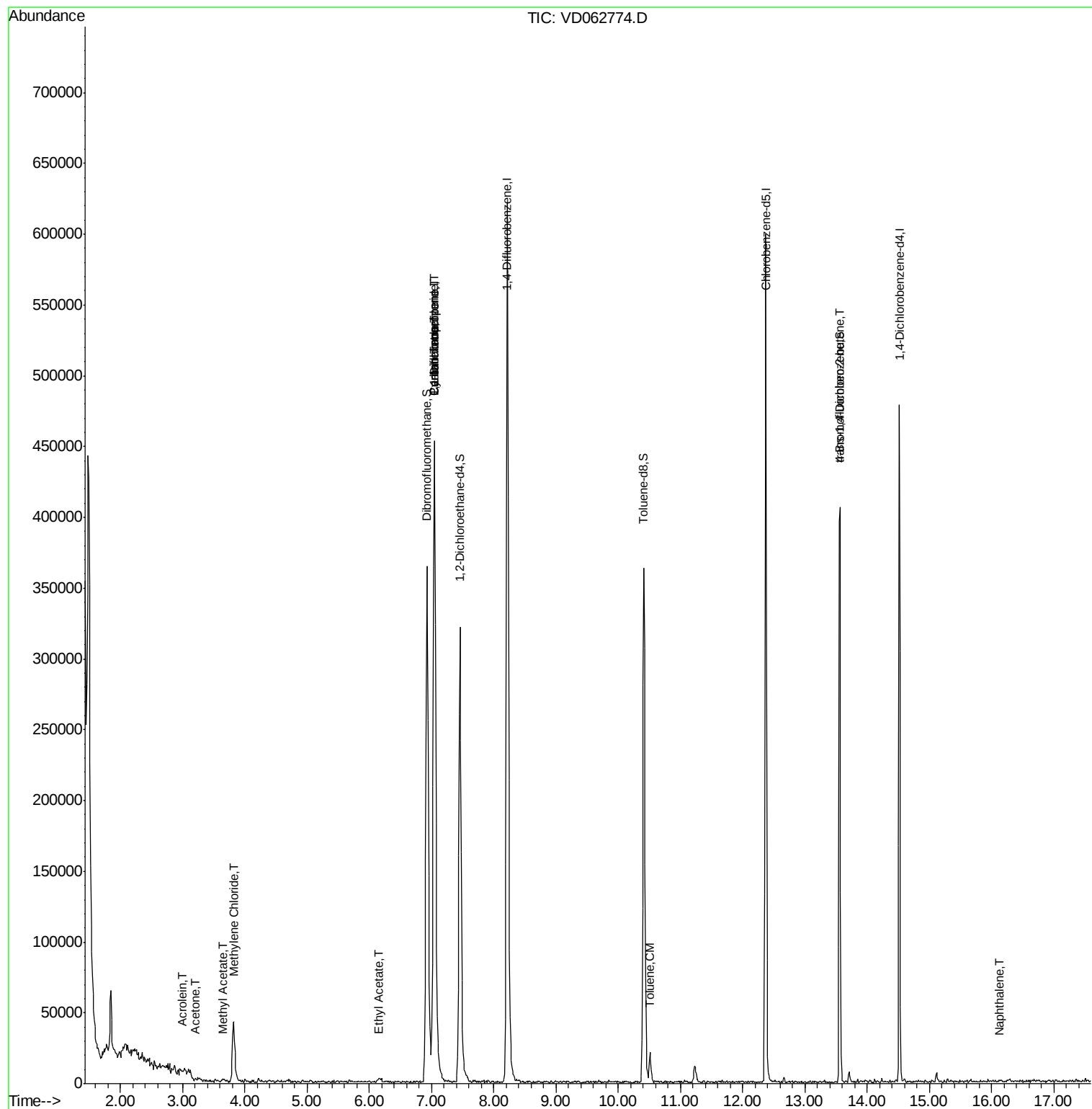
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	764	Below Cal	#	50
13) Acrolein	3.01	56	188	2.219	ug/l #	39
16) Acetone	3.21	43	1718	1.464	ug/l #	66
18) Methyl Acetate	3.65	43	4159	2.157	ug/l #	64
20) Methylene Chloride	3.83	84	26721	5.635	ug/l	93
31) Cyclohexane	7.04	56	10105	1.998	ug/l #	13
36) 1,1-Dichloropropene	7.05	75	34764	4.724	ug/l #	52
37) Ethyl Acetate	6.16	43	368	1.315	ug/l #	74
38) Carbon Tetrachloride	7.04	117	43235	3.717	ug/l #	17
52) Toluene	10.51	92	9946	1.029	ug/l	78
81) trans-1,4-Dichloro-2-buten	13.55	75	57240	137.588	ug/l #	1
95) Naphthalene	16.13	128	1437	3.825	ug/l #	71

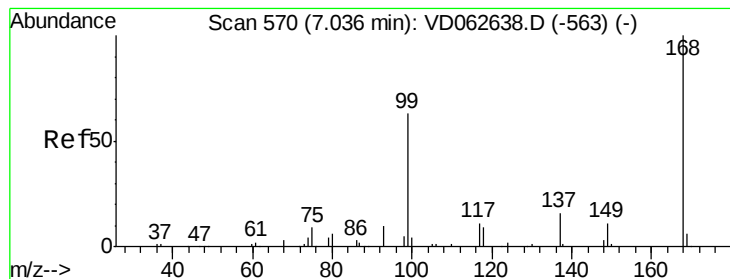
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD061819\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

Instrument :

MSVOA_D

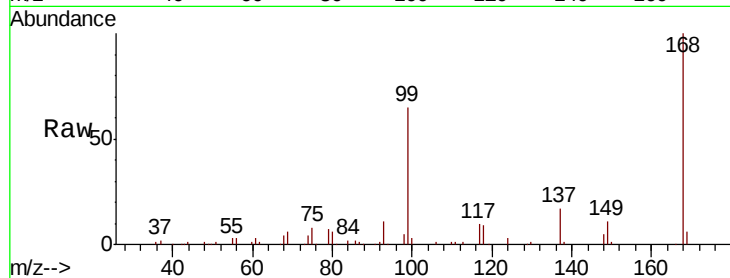
ClientSampleId :

Tot Ion:168 Resp: 444085

Ion Ratio Lower Upper

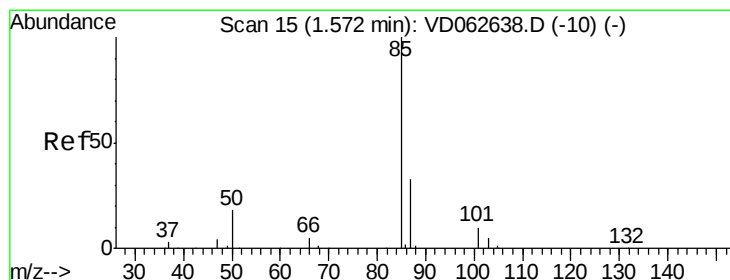
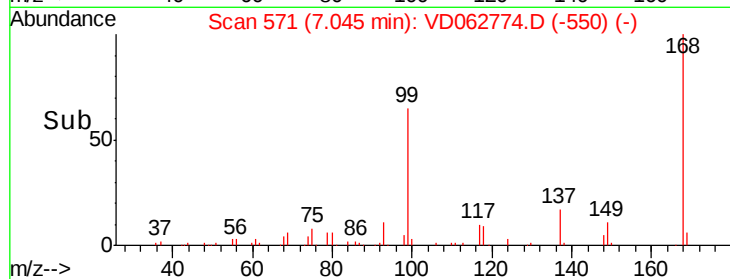
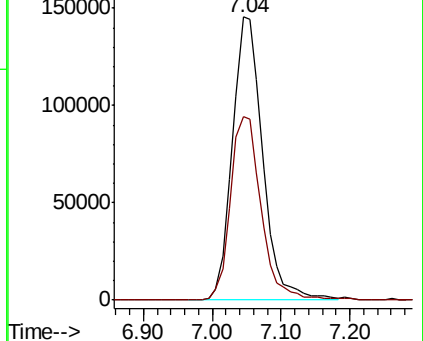
168 100

99 64.6 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.01 min

Lab File: VD062774.D

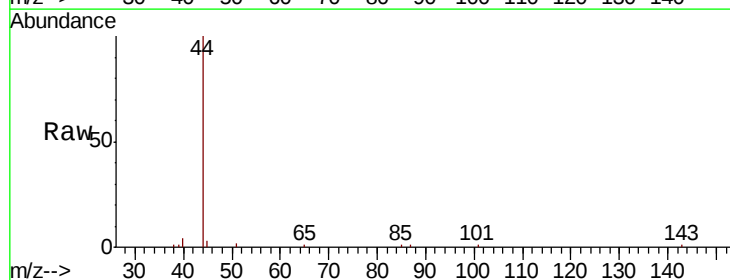
Acq: 19 Jun 2019 5:06

Tgt Ion: 85 Resp: 764

Ion Ratio Lower Upper

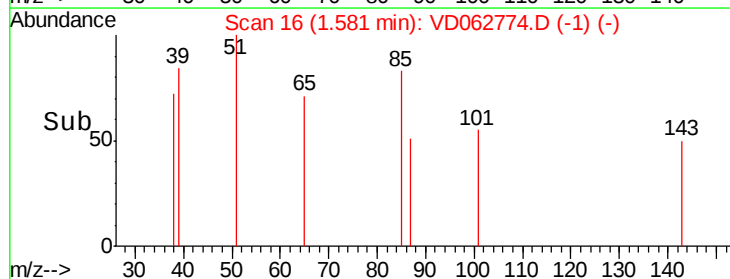
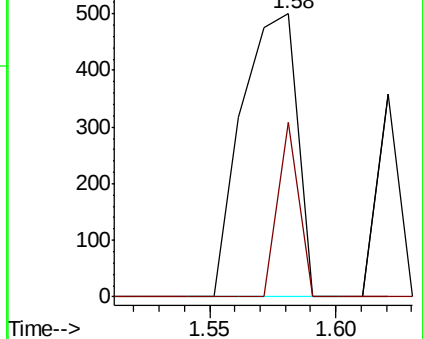
85 100

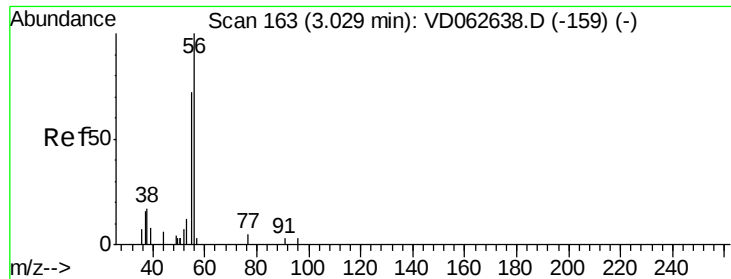
87 61.6 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#13

Acrolein

Concen: 2.219 ug/l

RT: 3.01 min Scan# 161

Delta R.T. -0.02 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

Instrument :

MSVOA_D

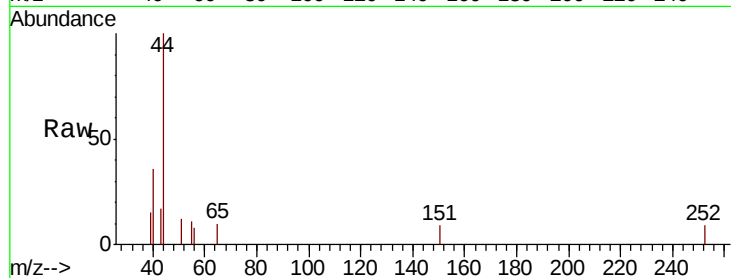
ClientSampleId :

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

56 100

55 126.1 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

500

400

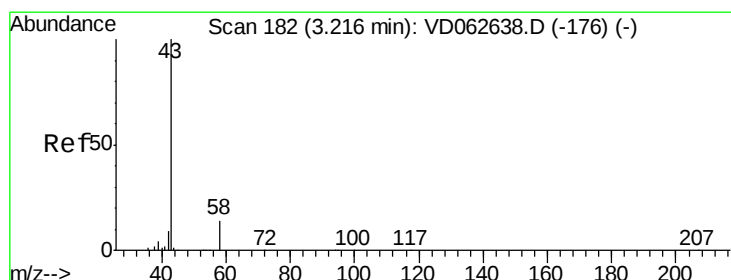
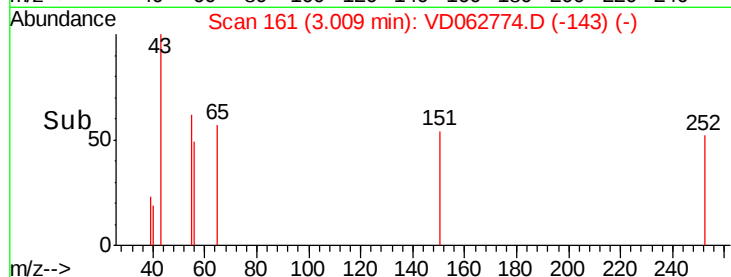
300

200

100

0

Time-->



#16

Acetone

Concen: 1.464 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD062774.D

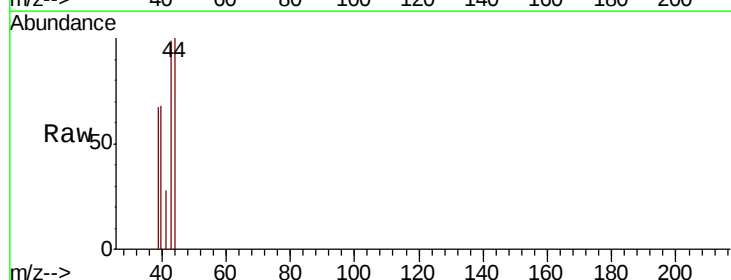
Acq: 19 Jun 2019 5:06

Tgt Ion: 43 Resp: 1718

Ion Ratio Lower Upper

43 100

58 0.0 10.8 16.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

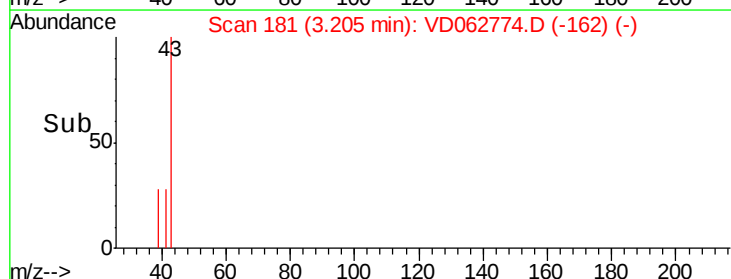
Ion 57.95 (57.65 to 58.65): VDC

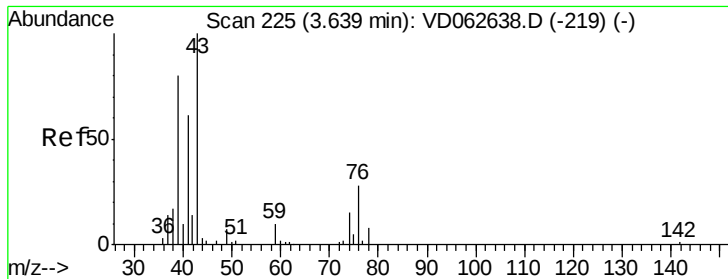
1000

500

0

Time-->

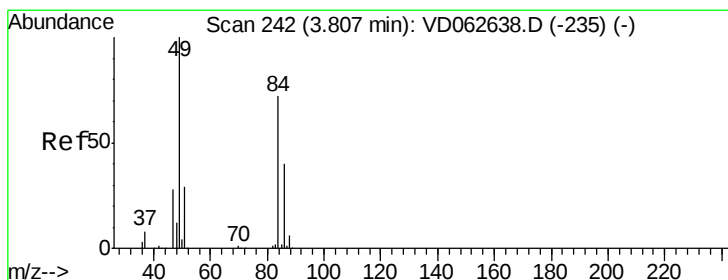
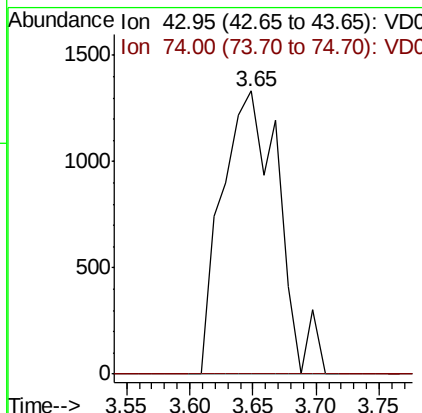
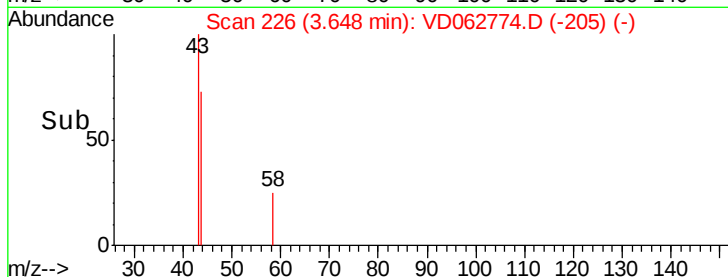
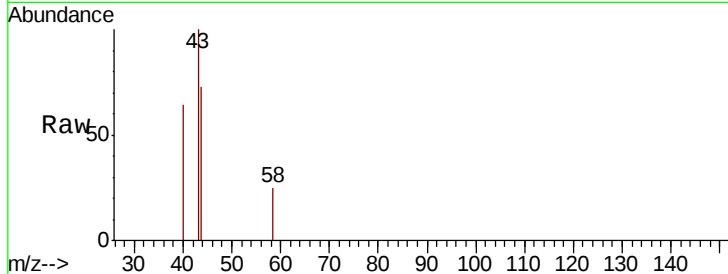




#18
Methyl Acetate
Concen: 2.157 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

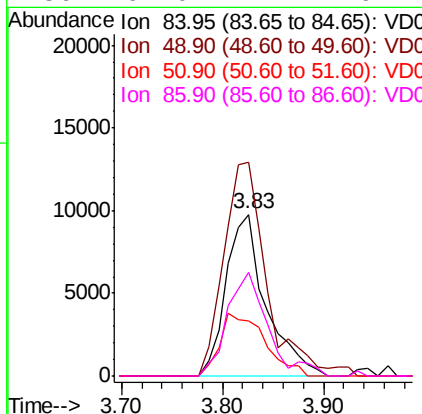
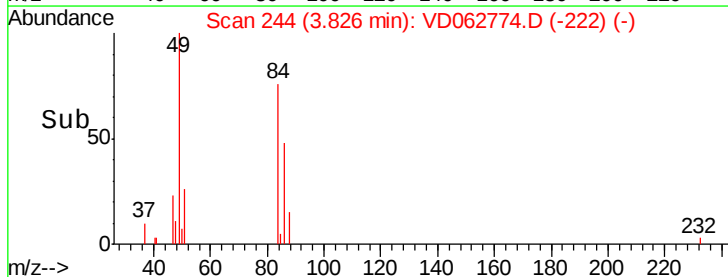
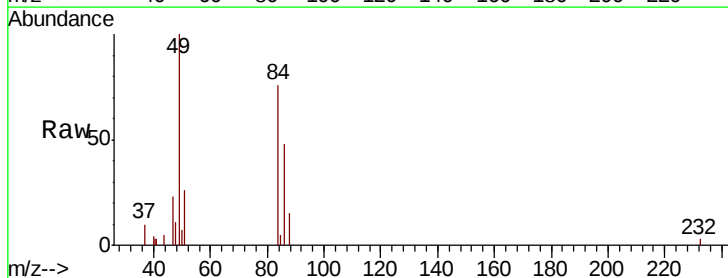
Instrument :
MSVOA_D
ClientSampleId :

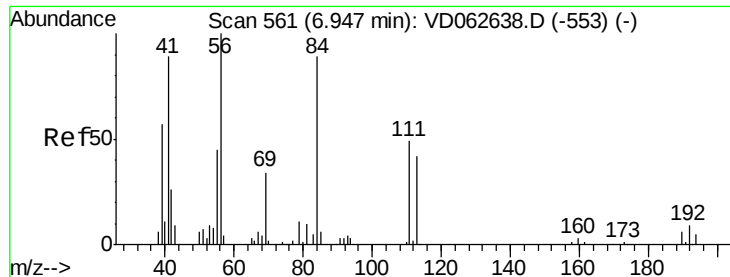
Tot Ion: 43 Resp: 4159
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 5.635 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.02 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

Tgt Ion: 84 Resp: 26721
Ion Ratio Lower Upper
84 100
49 132.4 111.2 166.8
51 34.4 31.9 47.9
86 64.0 44.7 67.1

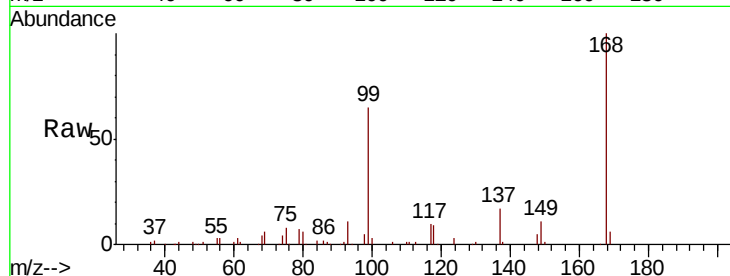




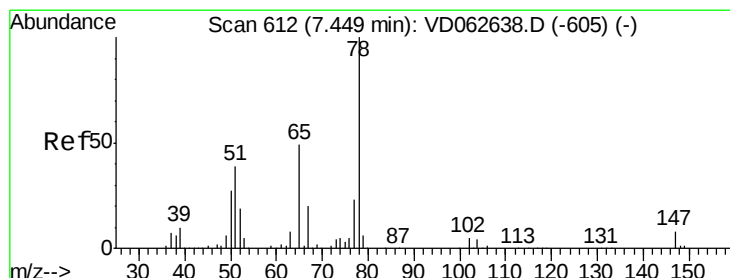
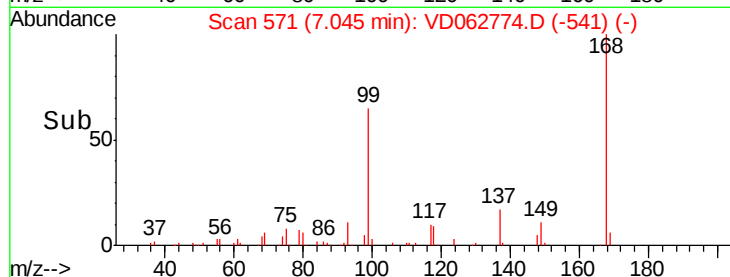
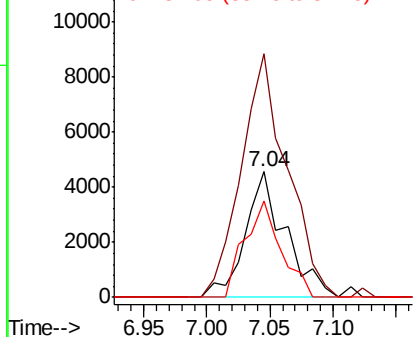
#31
Cvclohexane
Concen: 1.998 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.10 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 10105
Ion Ratio Lower Upper
56 100
69 194.1 26.8 40.2#
84 77.0 73.9 110.9

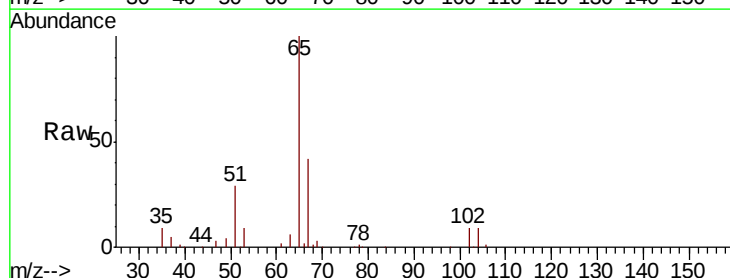


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

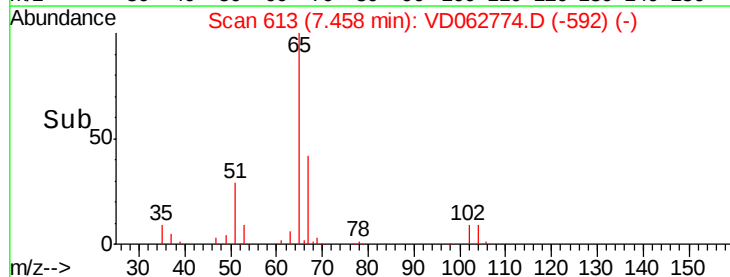
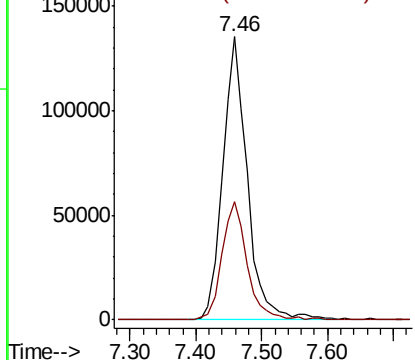


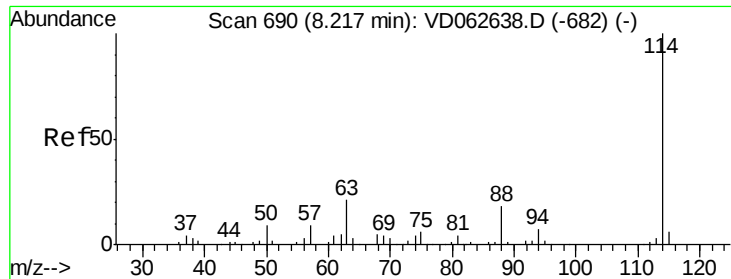
#33
1,2-Dichloroethane-d4
Concen: 54.647 ug/l
RT: 7.46 min Scan# 613
Delta R.T. 0.01 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

Tgt Ion: 65 Resp: 350186
Ion Ratio Lower Upper
65 100
67 41.6 0.0 81.8



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: 8.23 min Scan# 691

Delta R.T. 0.01 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

Instrument :

MSVOA_D

ClientSampleId :

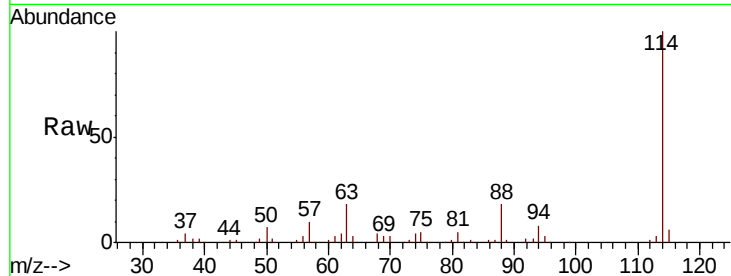
Tot Ion:114 Resp: 643045

Ion Ratio Lower Upper

114 100

63 17.8 0.0 42.4

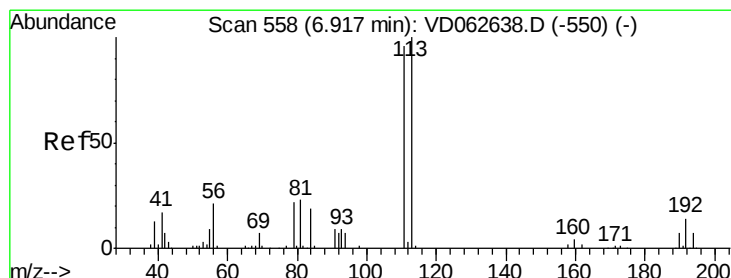
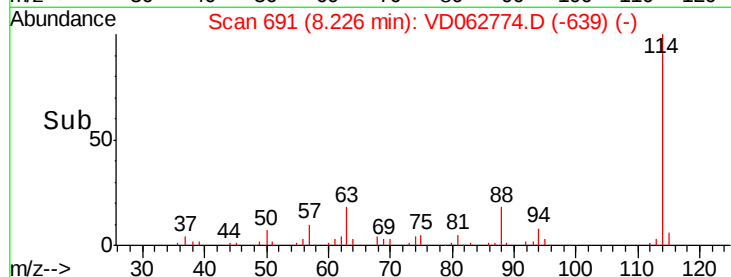
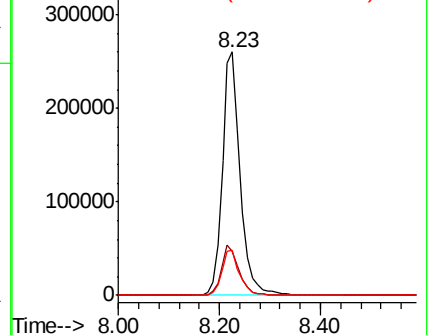
88 18.4 0.0 36.8



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: 48.054 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

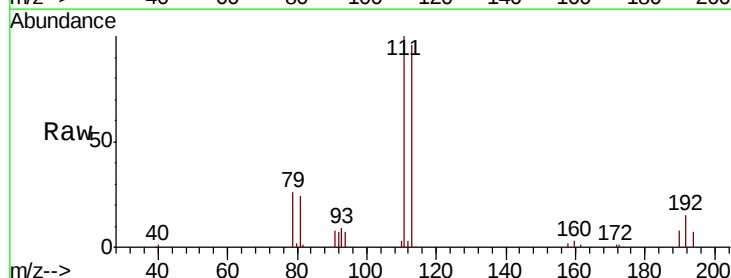
Tgt Ion:113 Resp: 325892

Ion Ratio Lower Upper

113 100

111 104.7 76.4 114.6

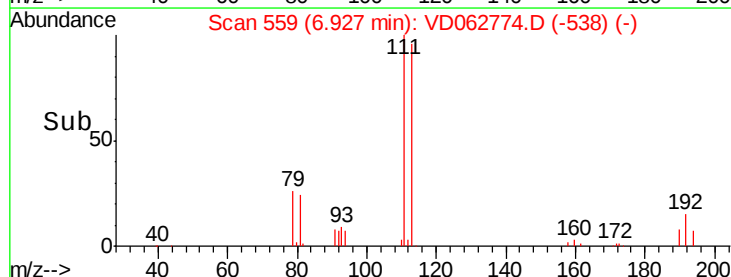
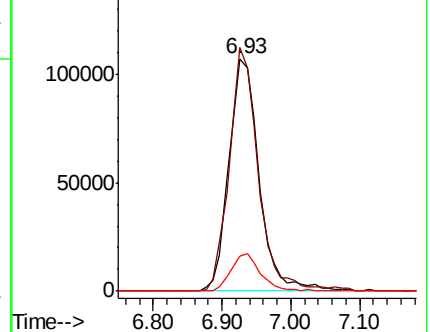
192 15.2 11.4 17.0

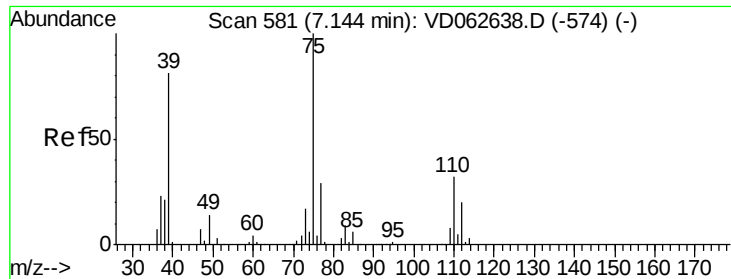


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.724 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.09 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

Instrument :

MSVOA_D

ClientSampleId :

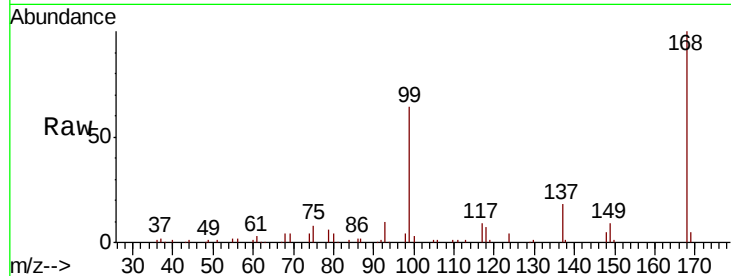
Tot Ion: 75 Resp: 34764

Ion Ratio Lower Upper

75 100

110 7.9 15.9 47.7#

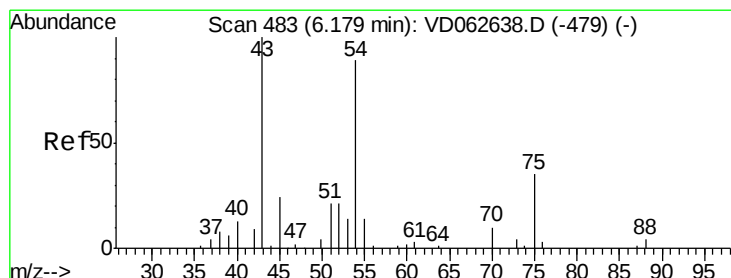
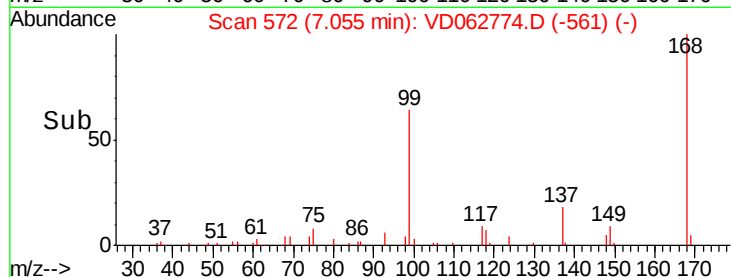
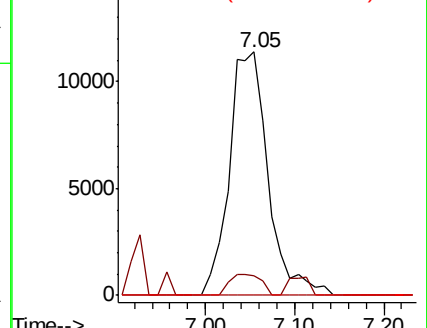
77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.315 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.02 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

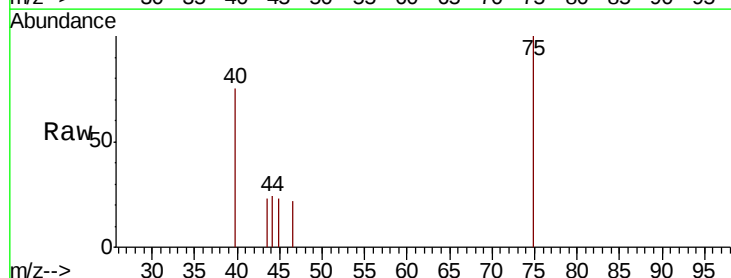
Tgt Ion: 43 Resp: 368

Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

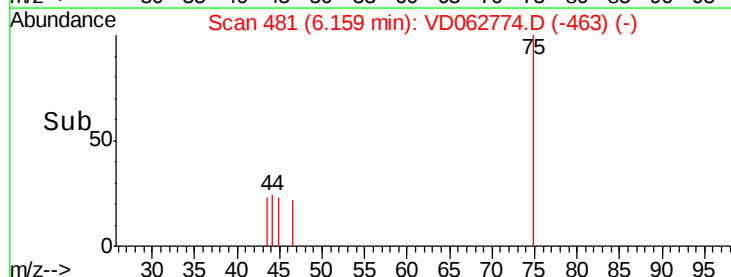
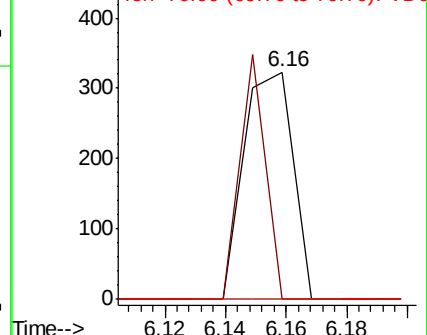
70 0.0 6.5 9.7#

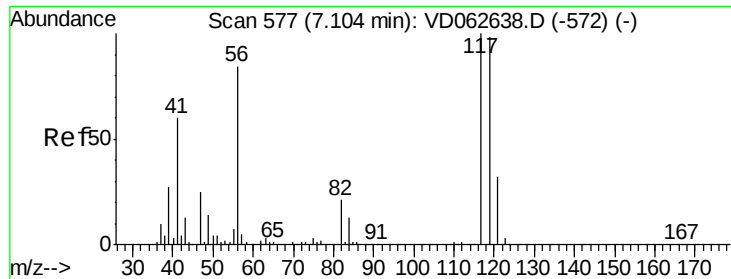


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

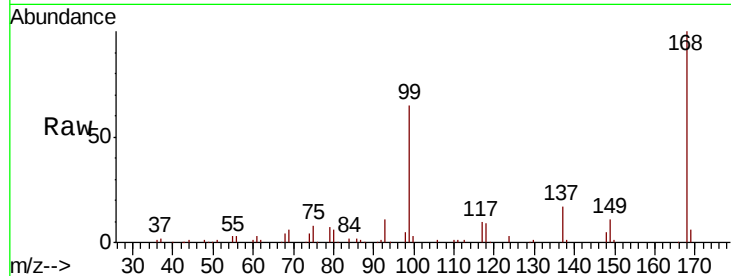




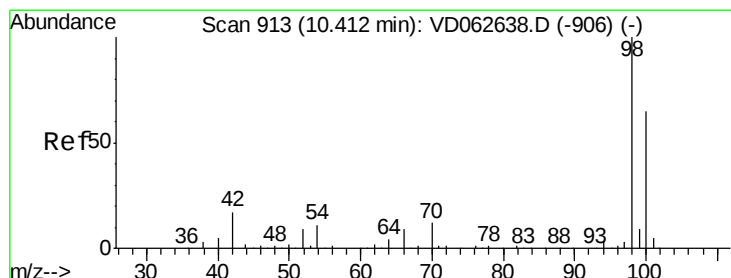
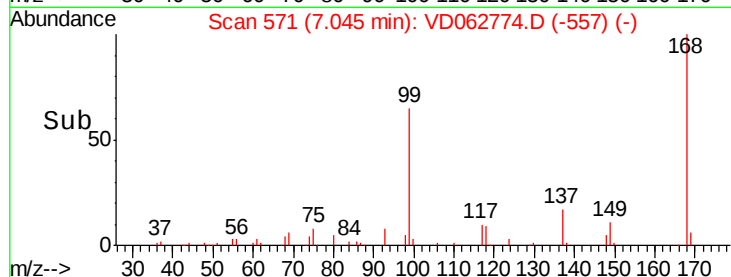
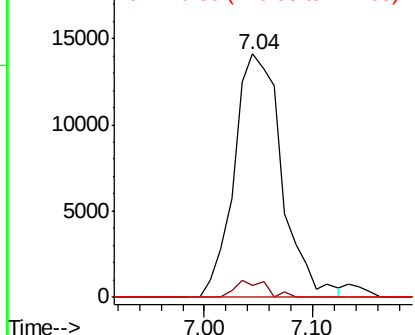
#38
Carbon Tetrachloride
Concen: 3.717 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.06 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 43235
Ion Ratio Lower Upper
117 100
119 4.7 73.5 110.3#
121 0.0 24.2 36.4#

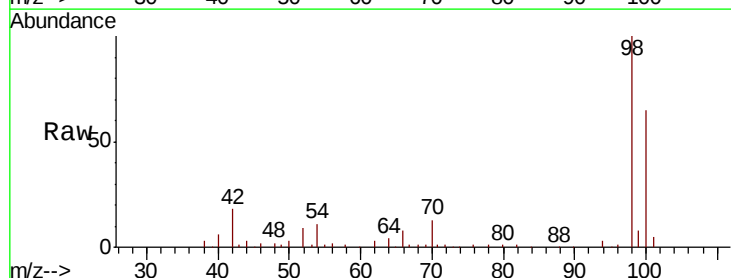


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

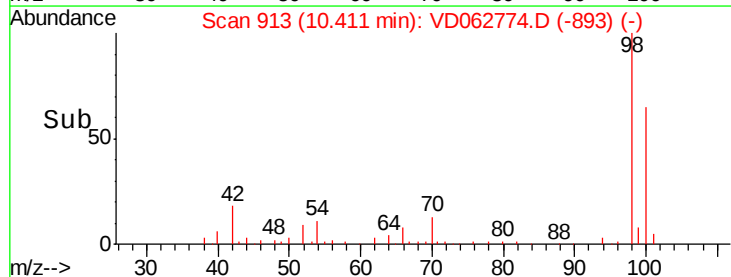
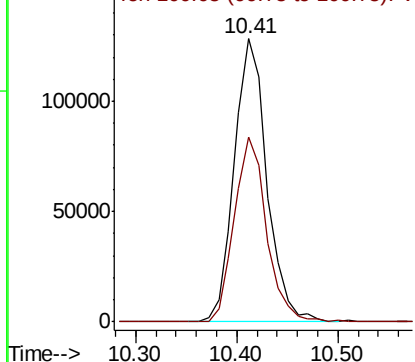


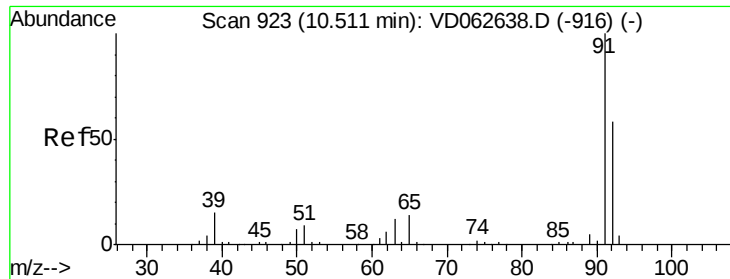
#50
Toluene-d8
Concen: 20.175 ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.00 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

Tgt Ion: 98 Resp: 287829
Ion Ratio Lower Upper
98 100
100 65.2 52.1 78.1



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.029 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

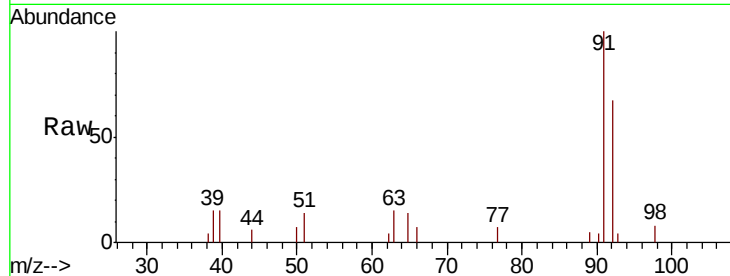
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 9946

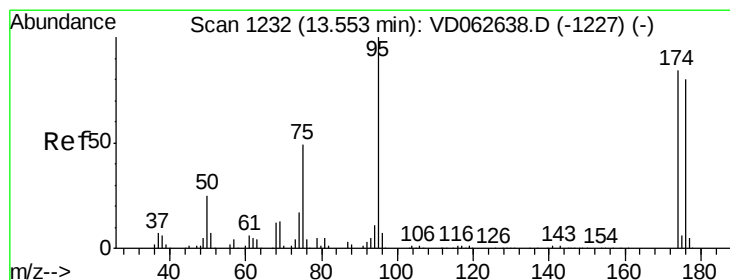
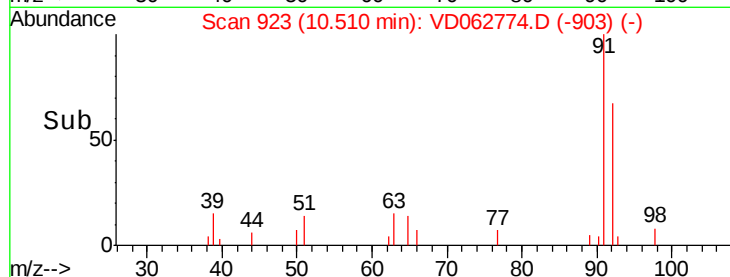
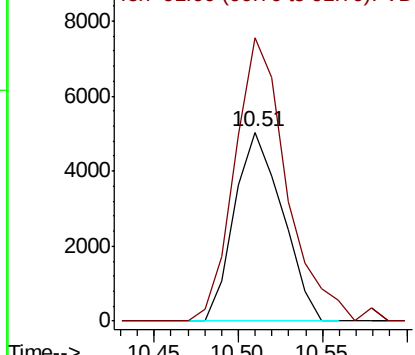
Ion Ratio Lower Upper

92 100

91 141.4 137.0 205.6



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 18.365 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

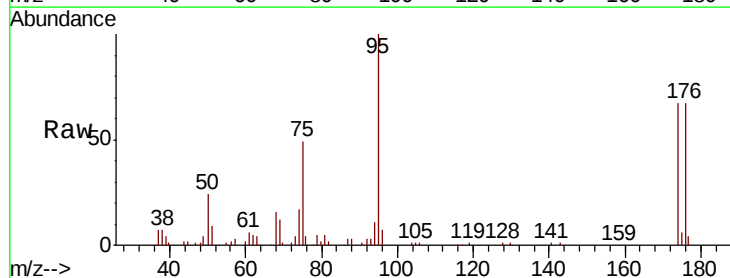
Tgt Ion: 95 Resp: 122233

Ion Ratio Lower Upper

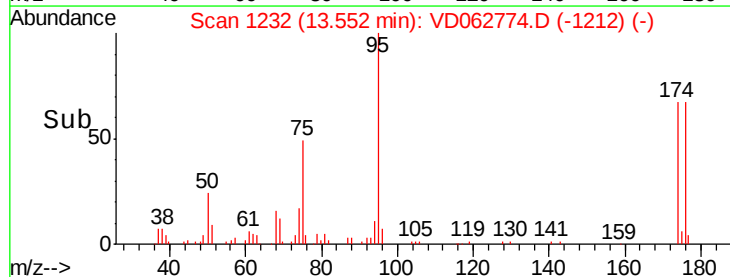
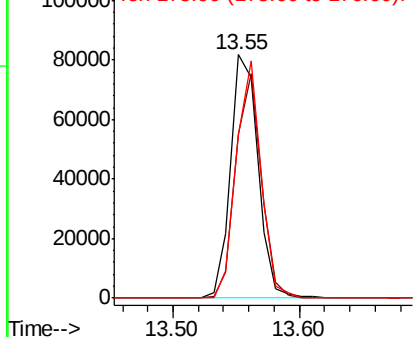
95 100

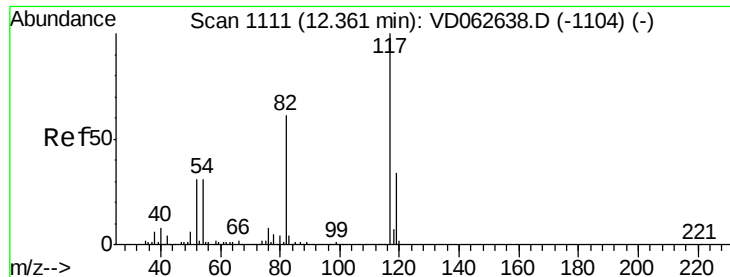
174 67.3 0.0 167.0

176 66.8 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

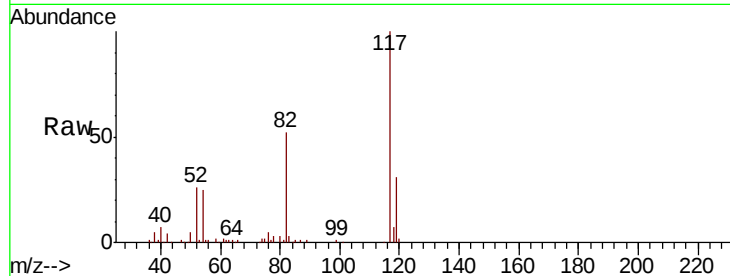




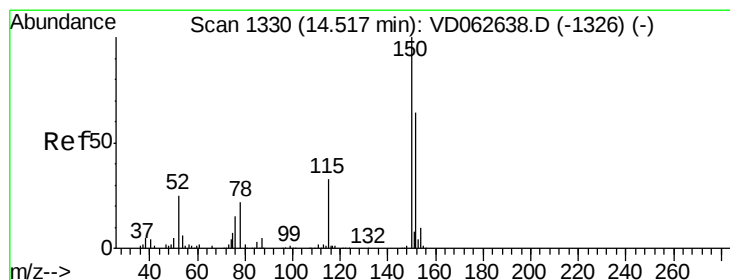
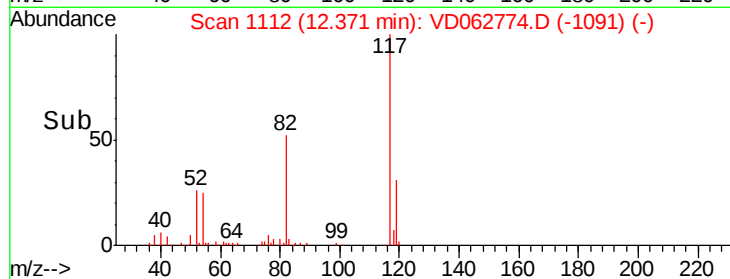
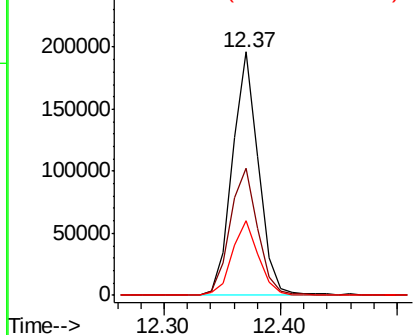
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.2	48.7	73.1
119	30.7	27.0	40.6

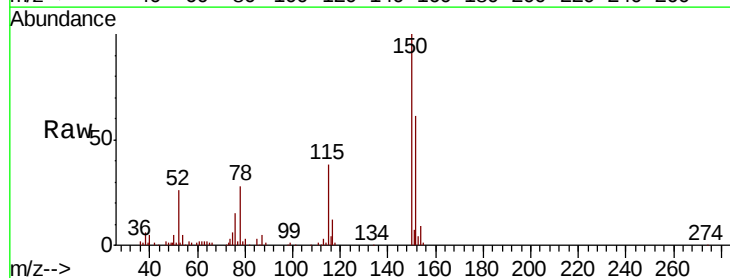


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

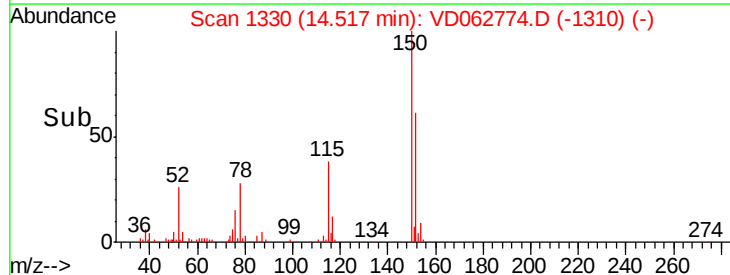
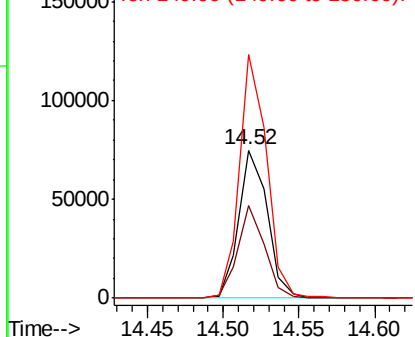


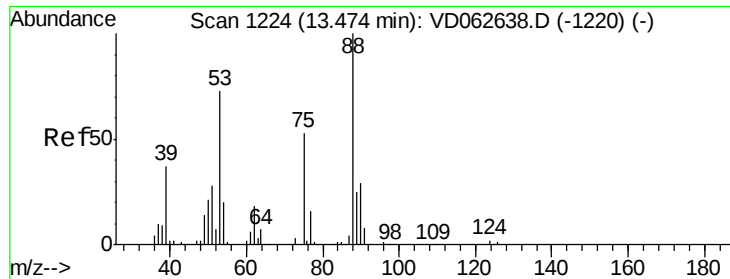
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD062774.D
Acq: 19 Jun 2019 5:06

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.6	30.1	90.5
150	164.6	0.0	314.0



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





#81

trans-1,4-Dichloro-2-butene

Concen: 137.588 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

Instrument :

MSVOA_D

ClientSampleId :

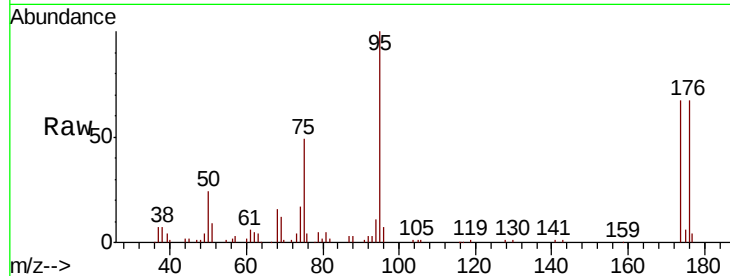
Tot Ion: 75 Resp: 57240

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

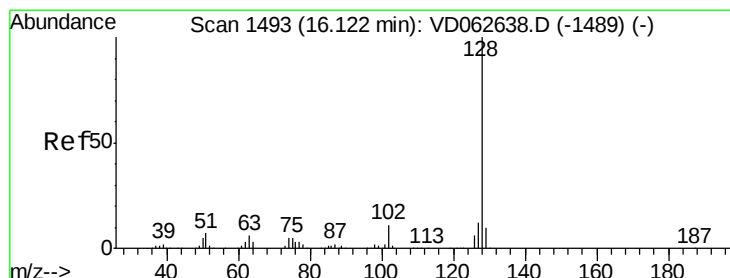
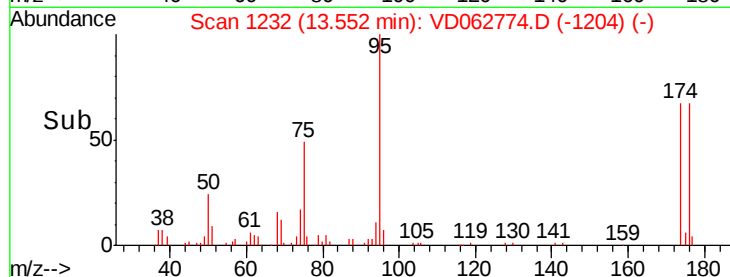
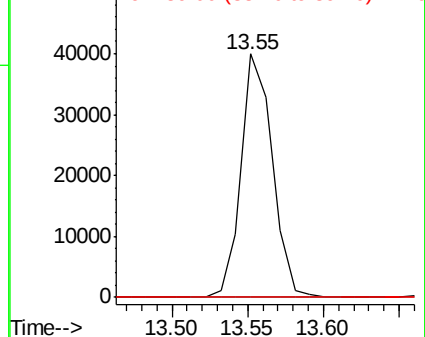
89 0.0 37.0 55.6#



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



#95

Naphthalene

Concen: 3.825 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD062774.D

Acq: 19 Jun 2019 5:06

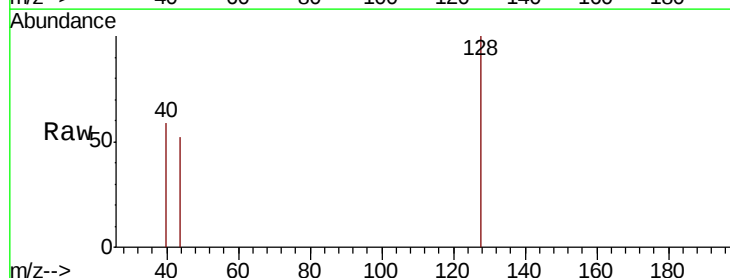
Tgt Ion:128 Resp: 1437

Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

129 0.0 8.1 12.1#



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

