

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052119\
 Data File : VD062478.D
 Acq On : 21 May 2019 13:56
 Operator : VA/AP
 Sample : K2962-03
 Misc : 3.86g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 22 01:43:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	652103	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.22	114	910948	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.37	117	739256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	396130	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	223807	32.06	ug/l	-0.01
Spiked Amount			Recovery	=	64.12%	
35) Dibromofluoromethane	6.93	113	293538	35.72	ug/l	-0.01
Spiked Amount			Recovery	=	71.44%	
50) Toluene-d8	10.42	98	625727	34.79	ug/l	-0.01
Spiked Amount			Recovery	=	69.58%	
62) 4-Bromofluorobenzene	13.56	95	289382	36.79	ug/l	-0.01
Spiked Amount			Recovery	=	73.58%	

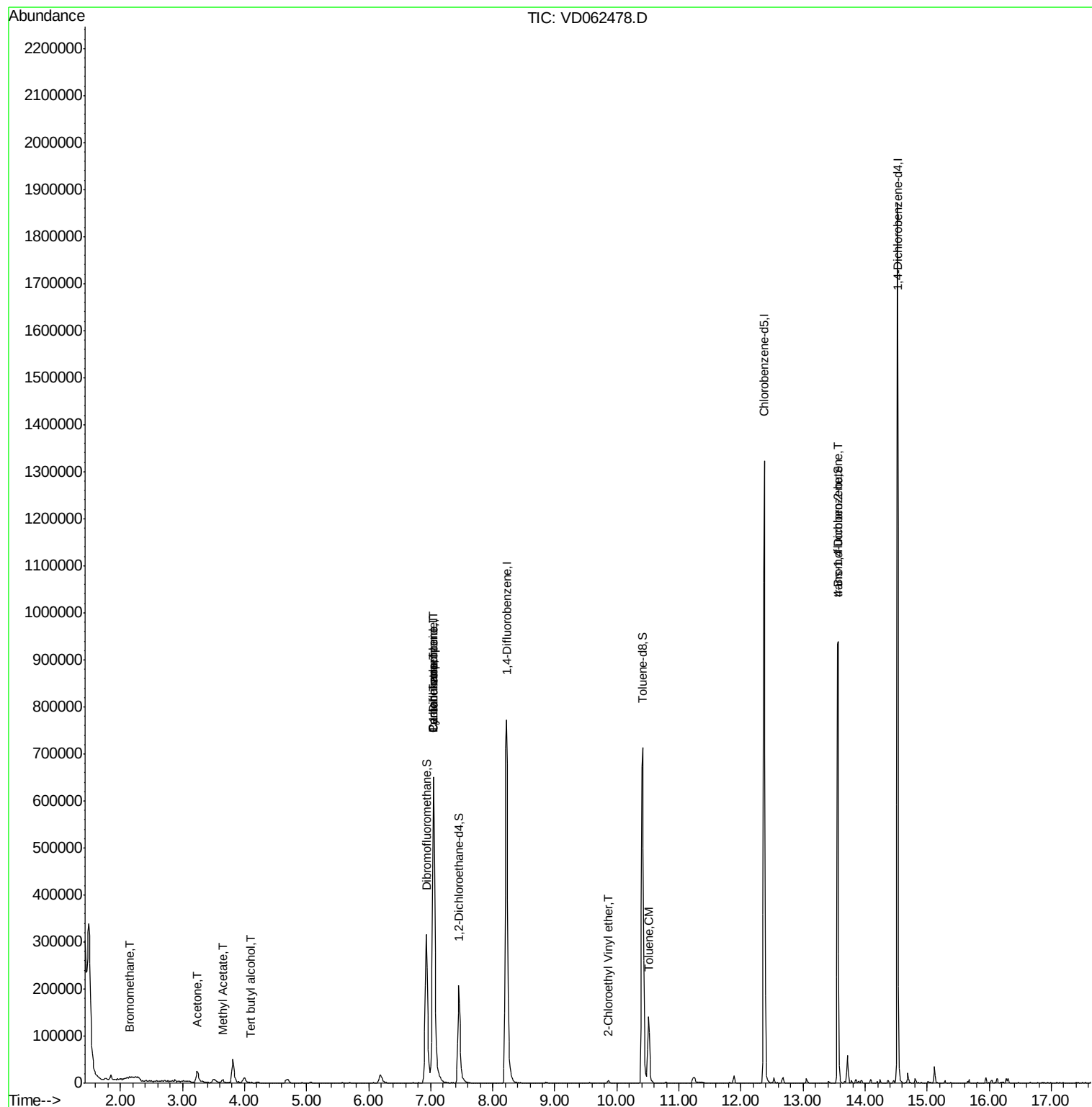
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	310	Below Cal	#	42
5) Bromomethane	2.15	94	2123	1.035	ug/l #	12
11) Tert butyl alcohol	4.10	59	1561	4.845	ug/l #	76
16) Acetone	3.23	43	53283	42.597	ug/l #	86
18) Methyl Acetate	3.66	43	11074	5.131	ug/l	97
20) Methylene Chloride	3.81	84	31602	Below Cal		90
31) Cyclohexane	7.04	56	12774	1.938	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	51680	5.934	ug/l #	47
38) Carbon Tetrachloride	7.04	117	67283	5.198	ug/l #	15
52) Toluene	10.52	92	73608	6.294	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.87	63	2478	1.139	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.56	75	129398	98.332	ug/l #	16

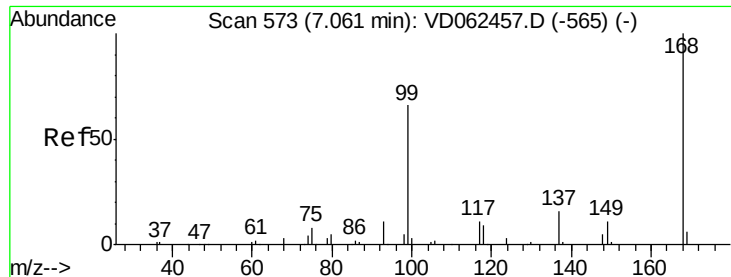
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.01 min

Lab File: VD062478.D

Acq: 21 May 2019 13:56

Instrument :

MSVOA_D

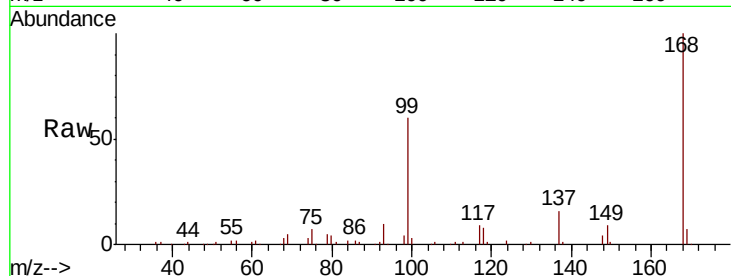
ClientSampled :

Tot Ion:168 Resp: 652103

Ion Ratio Lower Upper

168 100

99 59.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

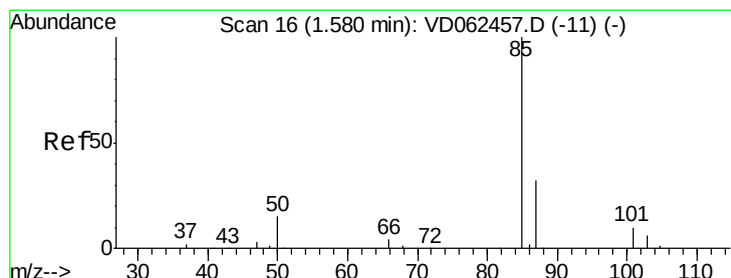
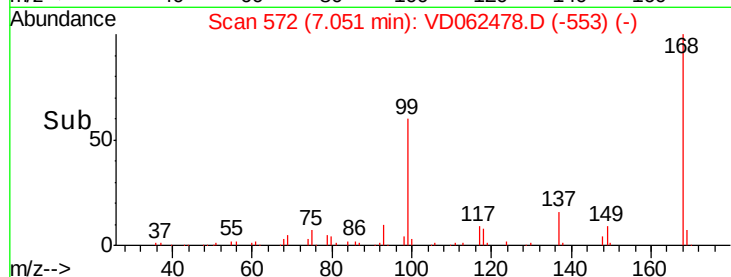
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 16

Delta R.T. 0.00 min

Lab File: VD062478.D

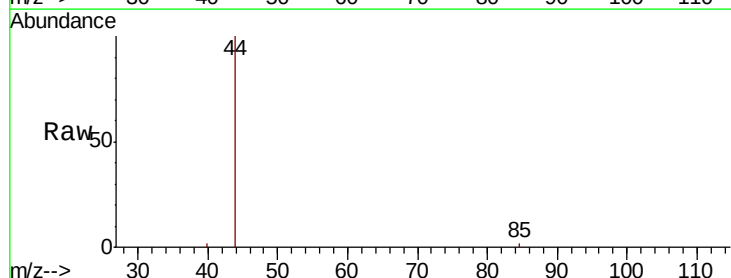
Acq: 21 May 2019 13:56

Tgt Ion: 85 Resp: 310

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.6#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

600

500

400

300

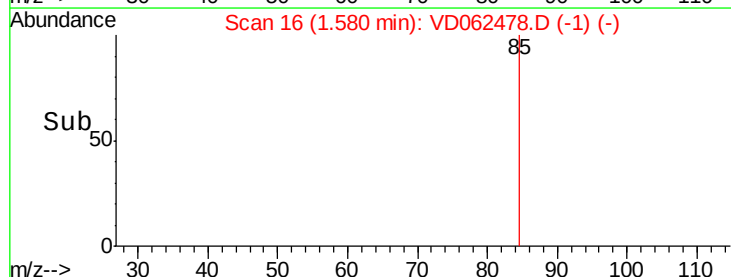
200

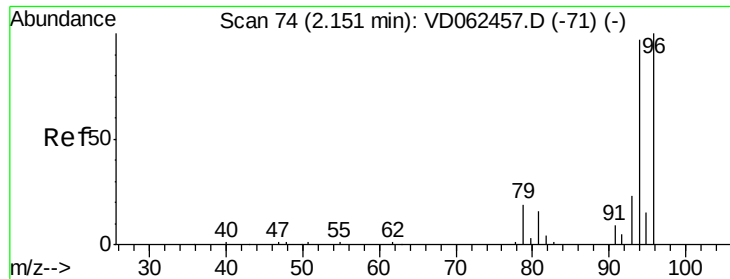
100

0

Time-->

1.56 1.58 1.60





#5

Bromomethane

Concen: 1.035 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD062478.D

Acq: 21 May 2019 13:56

Instrument :

MSVOA_D

ClientSampleId :

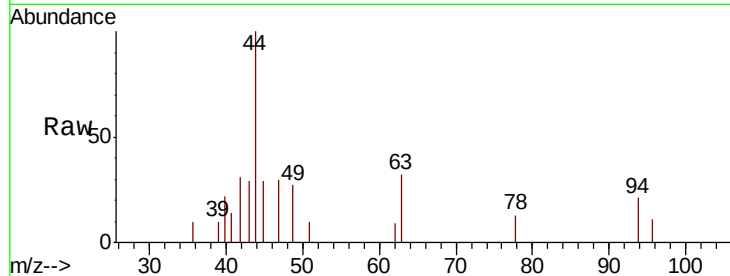
Tot Ion: 94 Resp: 2123

Ion Ratio Lower Upper

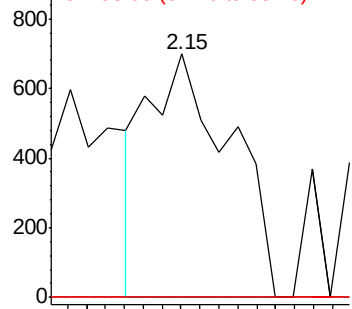
94 100

96 0.0 76.6 115.0#

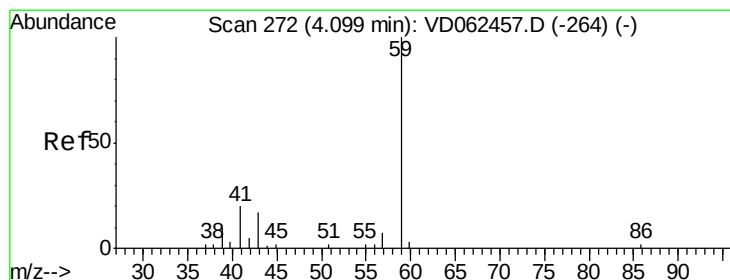
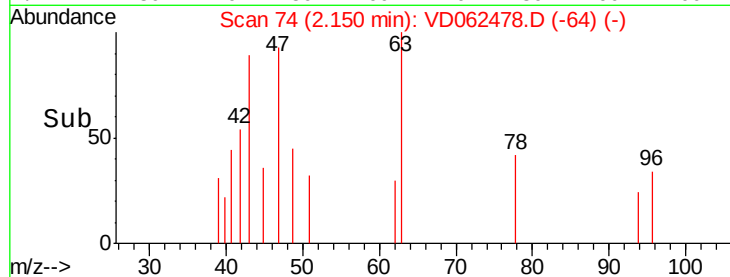
93 0.0 18.5 27.7#



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



Time-->



#11

Tert butyl alcohol

Concen: 4.845 ug/l

RT: 4.10 min Scan# 272

Delta R.T. -0.00 min

Lab File: VD062478.D

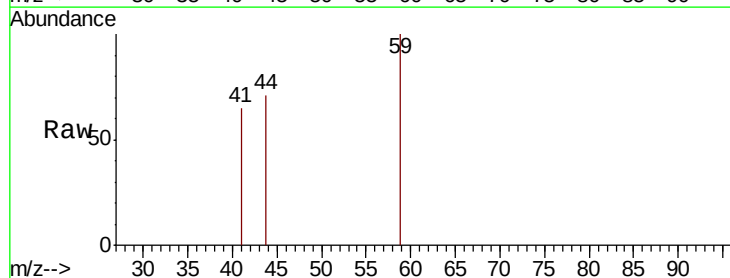
Acq: 21 May 2019 13:56

Tgt Ion: 59 Resp: 1561

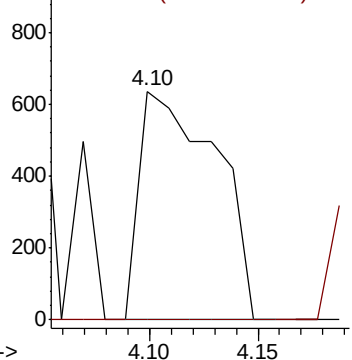
Ion Ratio Lower Upper

59 100

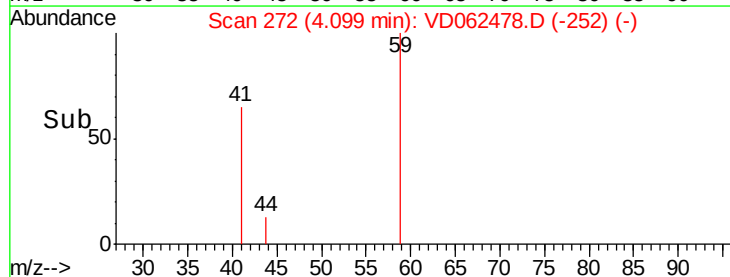
57 0.0 6.9 10.3#

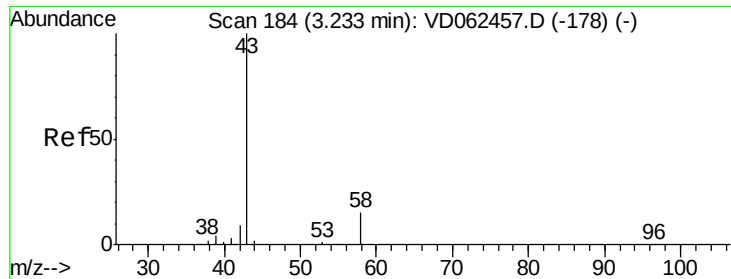


Abundance Ion 58.95 (58.65 to 59.65): VDC
Ion 56.95 (56.65 to 57.65): VDC



Time-->





#16

Acetone

Concen: 42.597 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.00 min

Lab File: VD062478.D

Acq: 21 May 2019 13:56

Instrument :

MSVOA_D

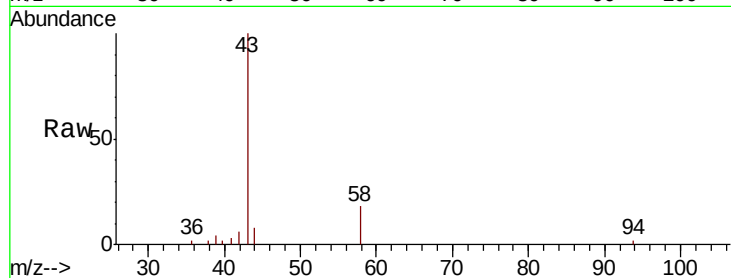
ClientSampleId :

Tot Ion: 43 Resp: 53283

Ion Ratio Lower Upper

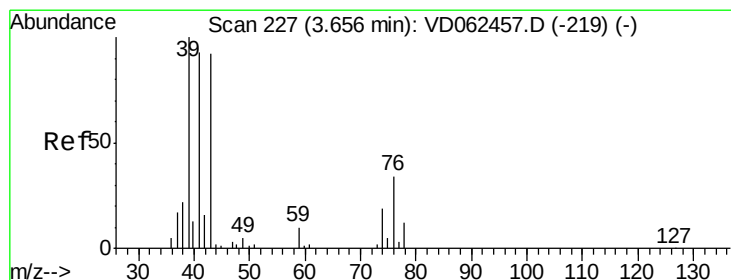
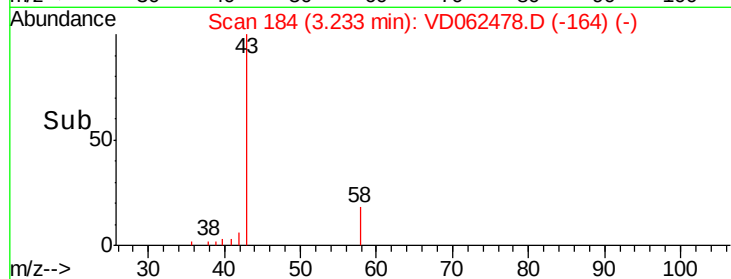
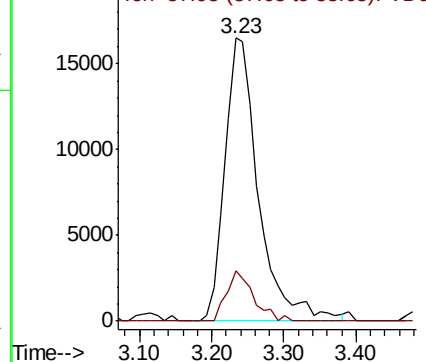
43 100

58 17.8 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: 5.131 ug/l

RT: 3.66 min Scan# 227

Delta R.T. -0.00 min

Lab File: VD062478.D

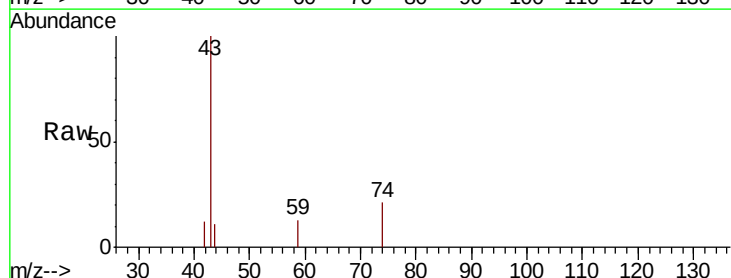
Acq: 21 May 2019 13:56

Tgt Ion: 43 Resp: 11074

Ion Ratio Lower Upper

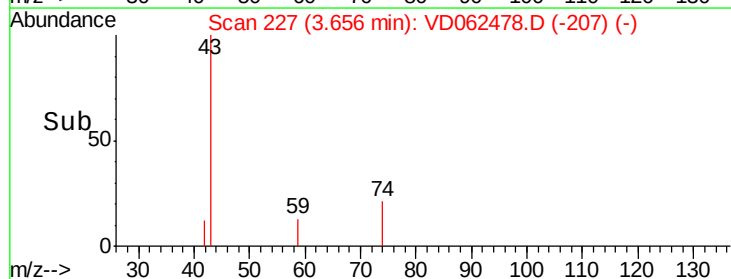
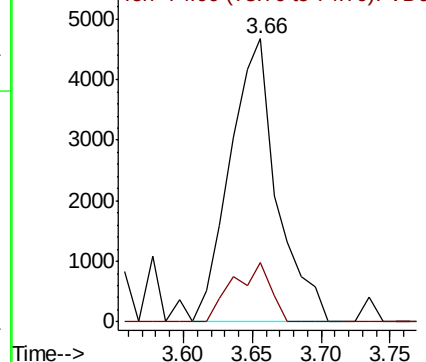
43 100

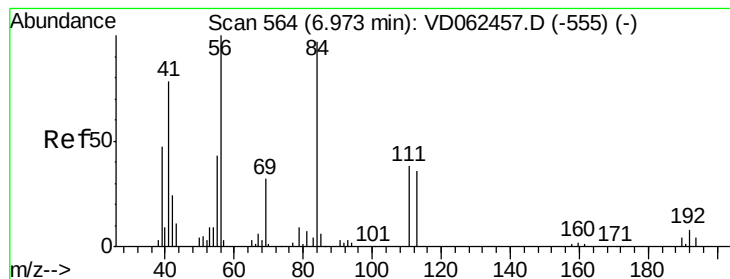
74 20.9 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#31

Cyclohexane

Concen: 1.938 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.07 min

Lab File: VD062478.D

Acq: 21 May 2019 13:56

Instrument :

MSVOA_D

ClientSampleId :

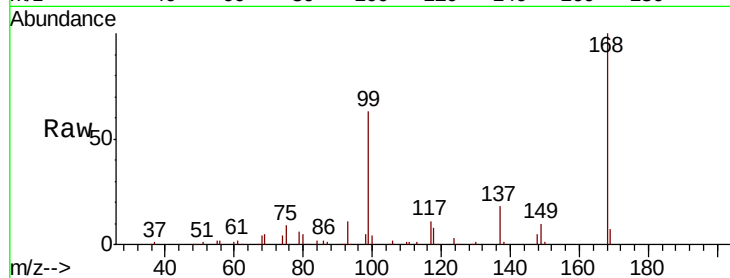
Tot Ion: 56 Resp: 12774

Ion Ratio Lower Upper

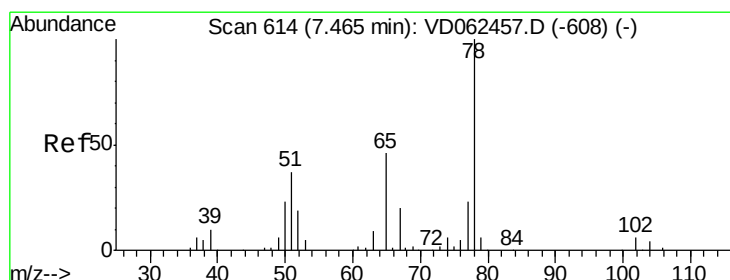
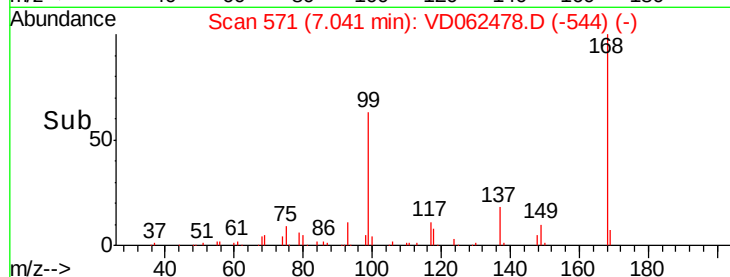
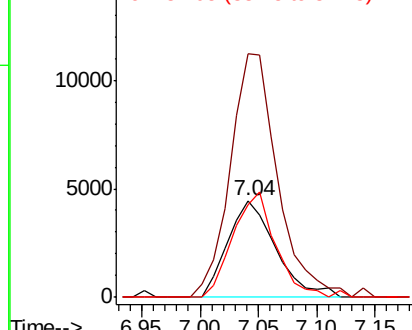
56 100

69 252.4 25.8 38.6#

84 95.7 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: 32.063 ug/l

RT: 7.45 min Scan# 613

Delta R.T. -0.01 min

Lab File: VD062478.D

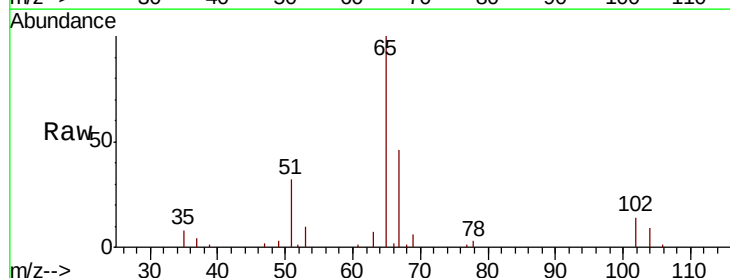
Acq: 21 May 2019 13:56

Tgt Ion: 65 Resp: 223807

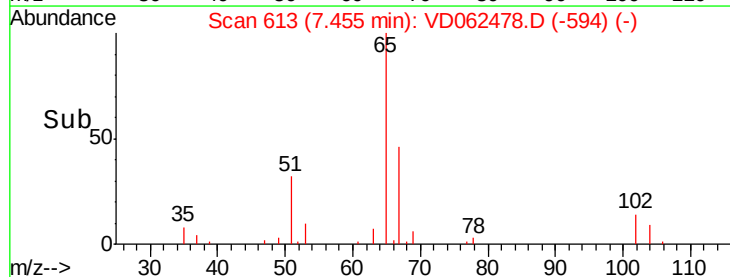
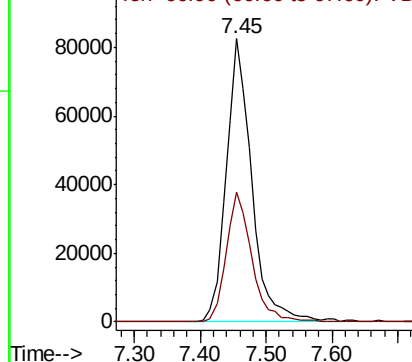
Ion Ratio Lower Upper

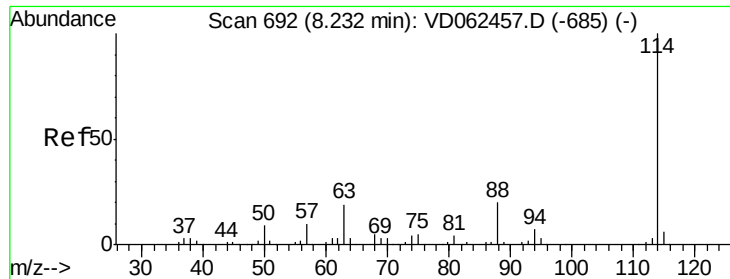
65 100

67 45.8 0.0 98.0



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

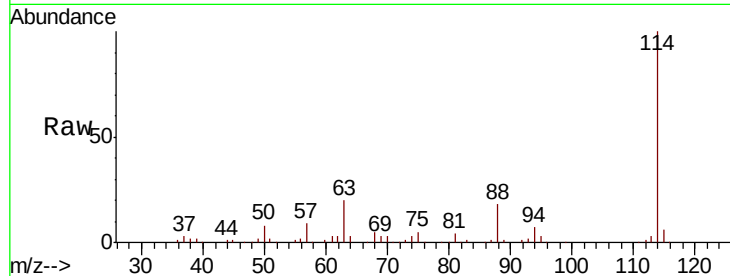




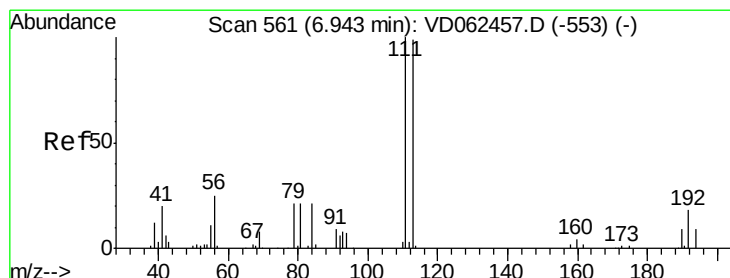
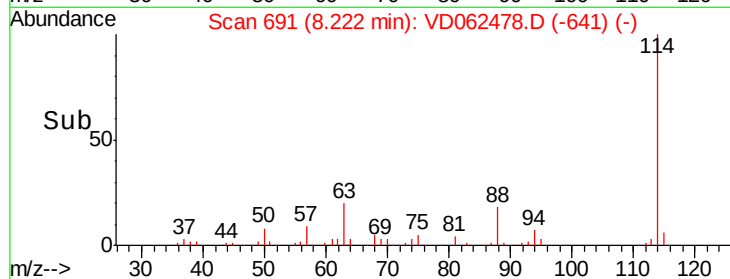
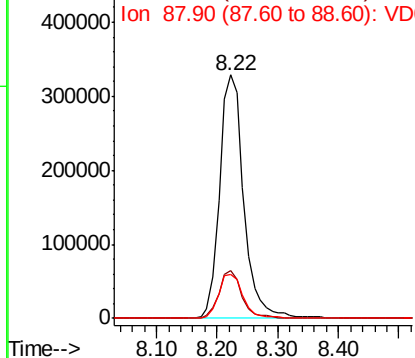
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.22 min Scan# 691
Delta R.T. -0.01 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 910948
Ion Ratio Lower Upper
114 100
63 19.8 0.0 32.4
88 18.1 0.0 33.6

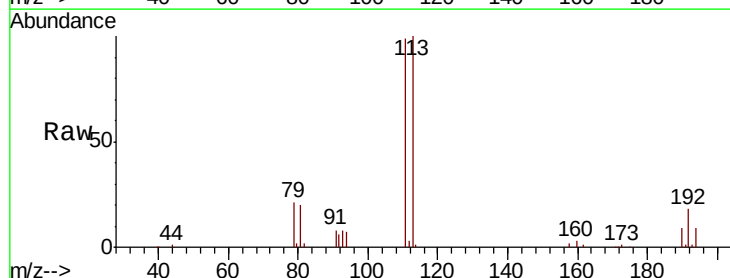


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): V
Ion 87.90 (87.60 to 88.60): V

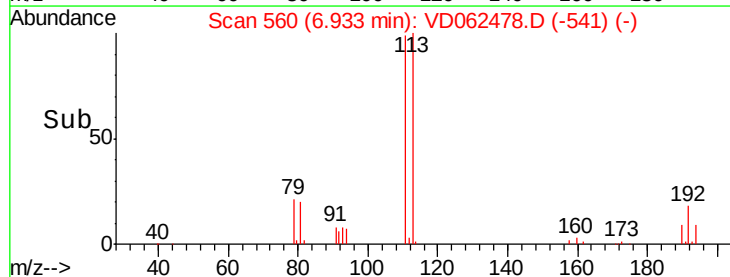
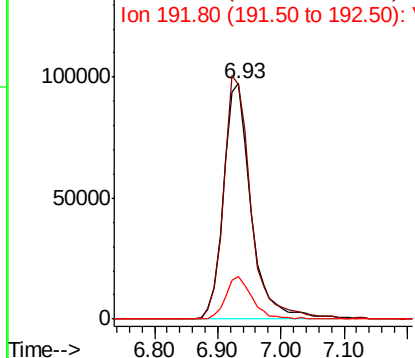


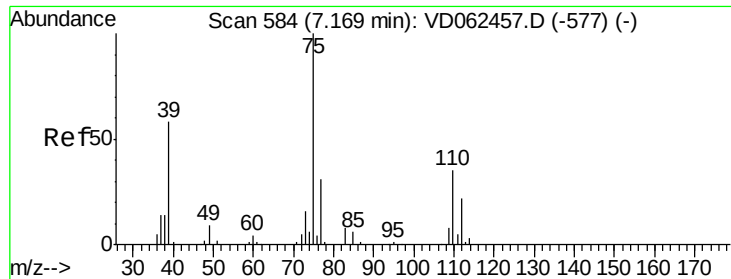
#35
Dibromofluoromethane
Concen: 35.720 ug/l
RT: 6.93 min Scan# 560
Delta R.T. -0.01 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

Tgt Ion:113 Resp: 293538
Ion Ratio Lower Upper
113 100
111 99.5 78.5 117.7
192 18.1 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 191.80 (191.50 to 192.50): V

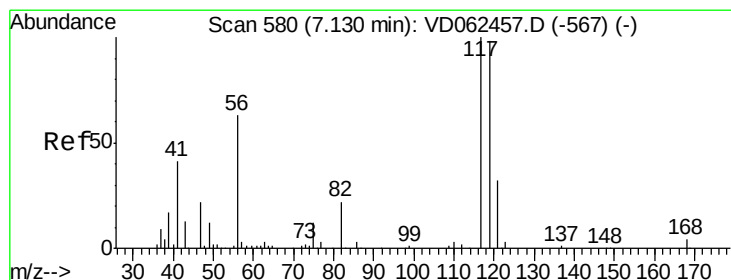
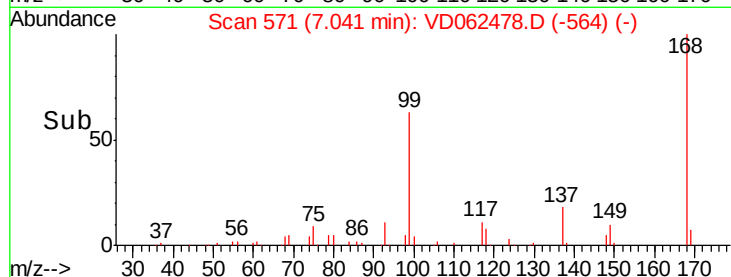
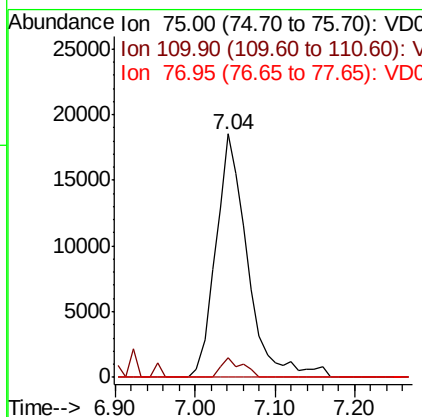
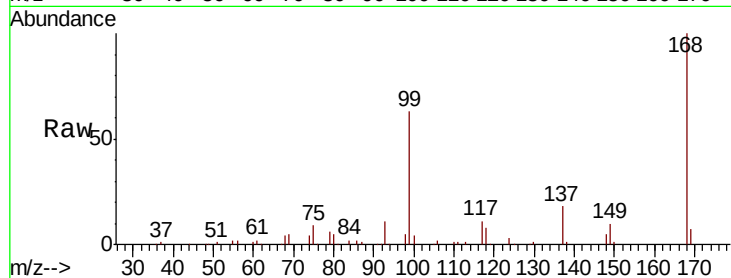




#36
 1,1-Dichloropropene
 Concen: 5.934 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.13 min
 Lab File: VD062478.D
 Acq: 21 May 2019 13:56

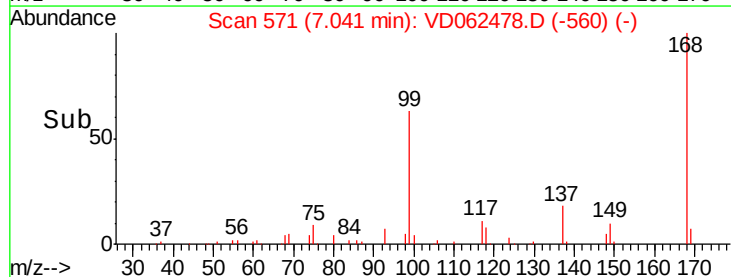
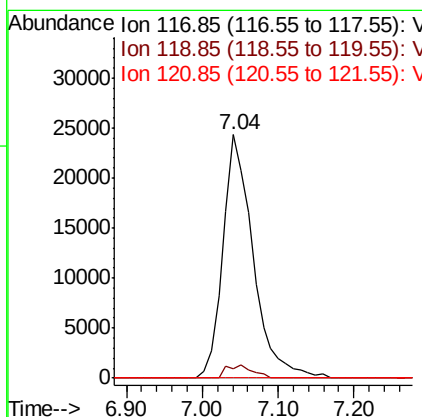
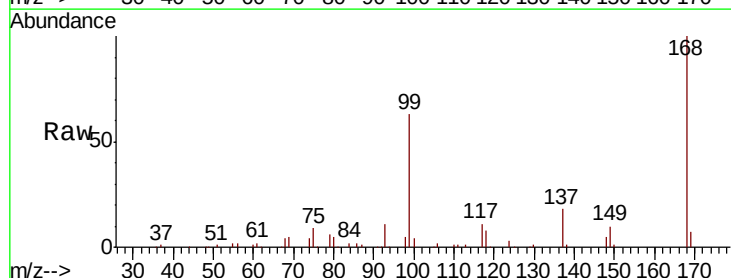
Instrument :
 MSVOA_D
 ClientSampled :

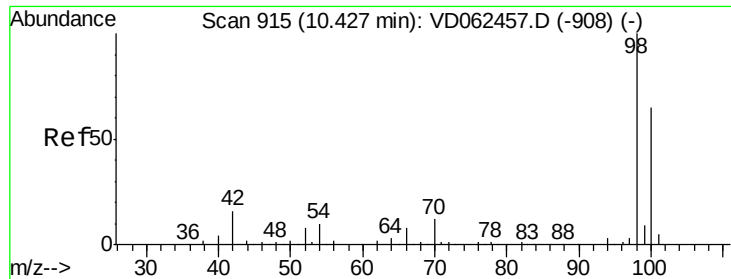
Tot Ion	75	Resp	51680
Ion Ratio	Lower	Upper	
75	100		
110	8.1	19.1	57.1#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 5.198 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.09 min
 Lab File: VD062478.D
 Acq: 21 May 2019 13:56

Tgt Ion	117	Resp	67283
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	3.8	75.8	113.8#
121	0.0	25.9	38.9#

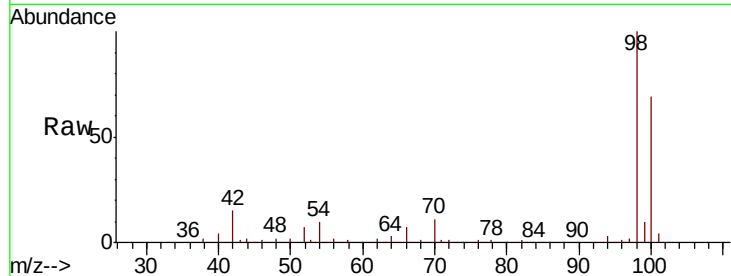




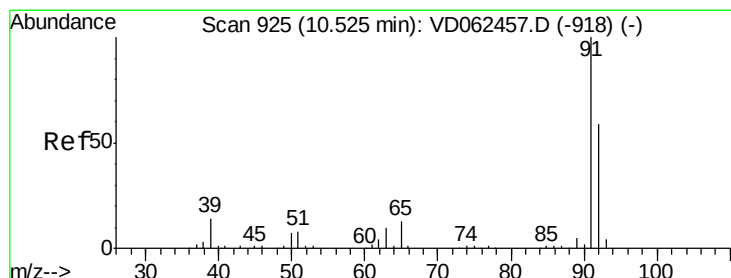
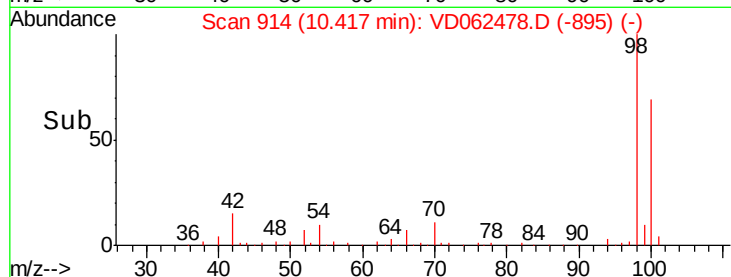
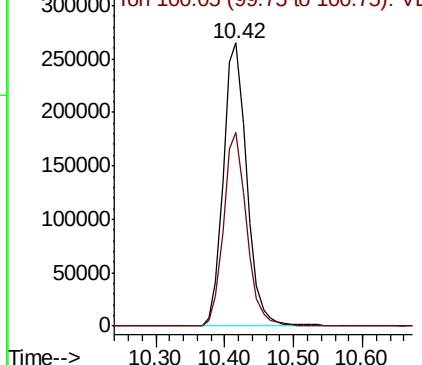
#50
Toluene-d8
Concen: 34.794 ug/l
RT: 10.42 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 98 Resp: 625727
Ion Ratio Lower Upper
98 100
100 68.7 53.8 80.8

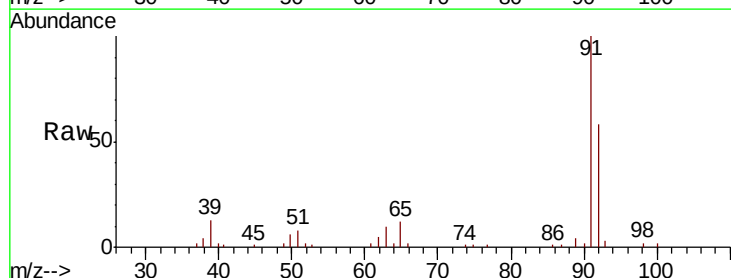


Abundance Ion 98.05 (97.75 to 98.75): VD0
Ion 100.05 (99.75 to 100.75): VD

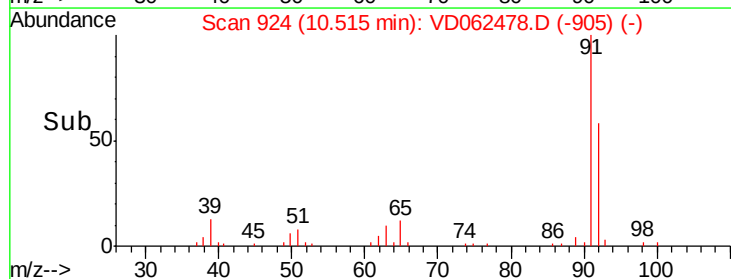
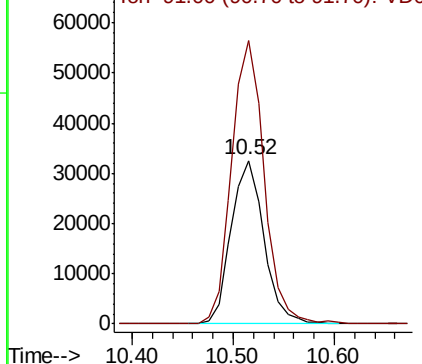


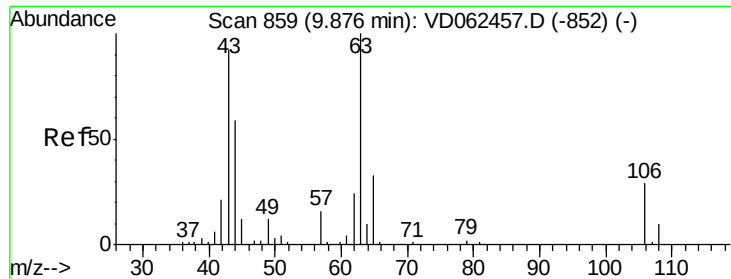
#52
Toluene
Concen: 6.294 ug/l
RT: 10.52 min Scan# 924
Delta R.T. -0.01 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

Tgt Ion: 92 Resp: 73608
Ion Ratio Lower Upper
92 100
91 173.2 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VD0
Ion 91.00 (90.70 to 91.70): VD0

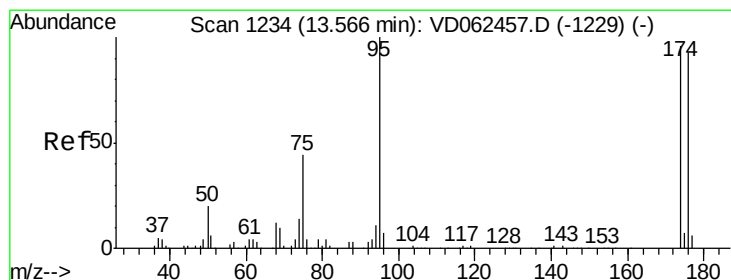
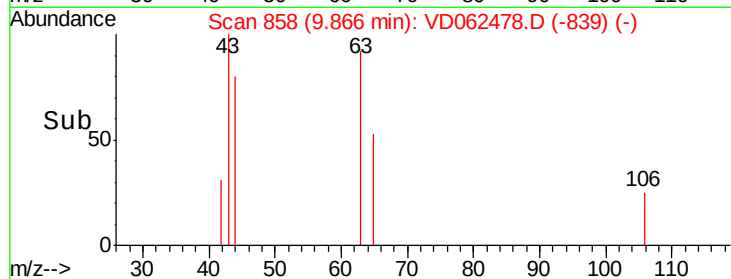
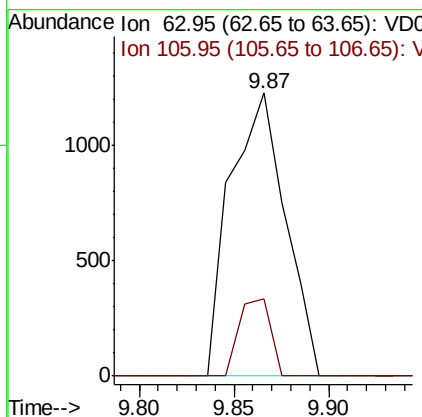
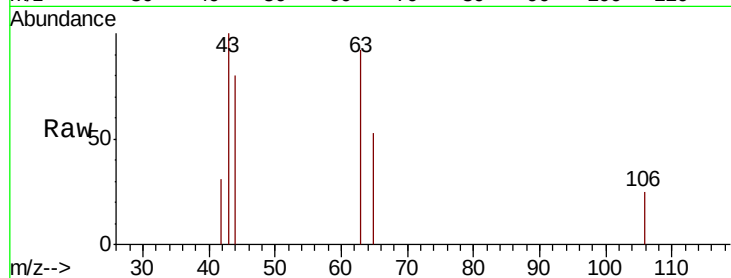




#58
2-Chloroethyl Vinyl ether
Concen: 1.139 ug/l
RT: 9.87 min Scan# 858
Delta R.T. -0.01 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

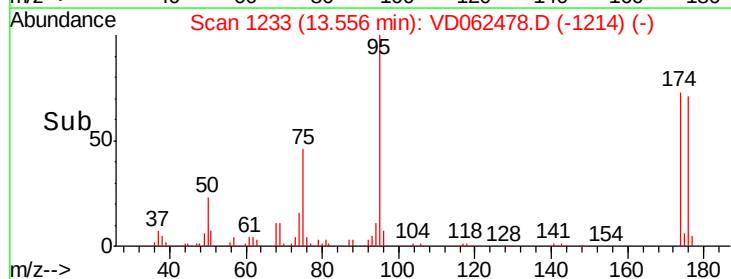
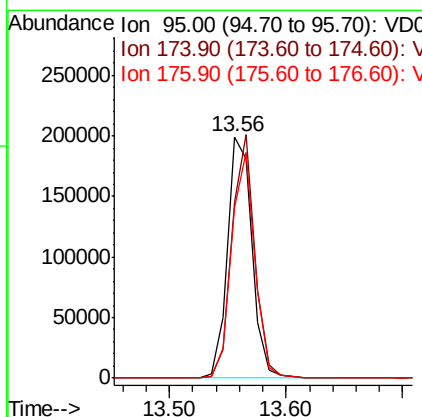
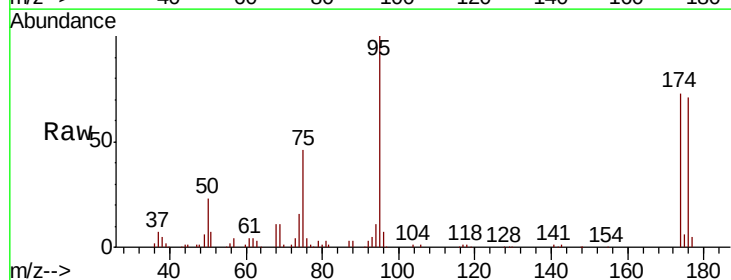
Instrument :
MSVOA_D
ClientSampleId :

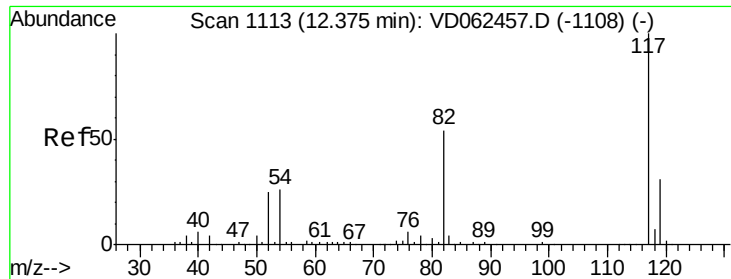
Tot Ion: 63 Resp: 2478
Ion Ratio Lower Upper
63 100
106 27.5 22.6 34.0



#62
4-Bromofluorobenzene
Concen: 36.785 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.01 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

Tgt Ion: 95 Resp: 289382
Ion Ratio Lower Upper
95 100
174 72.7 0.0 181.8
176 70.6 0.0 174.4

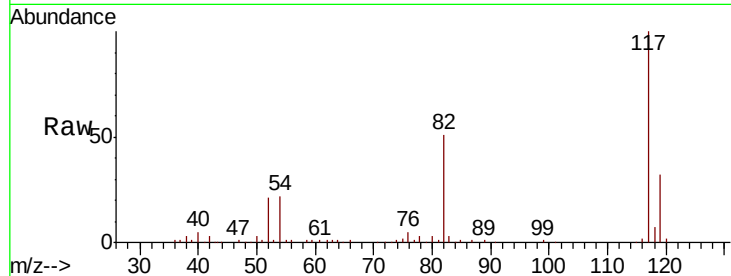




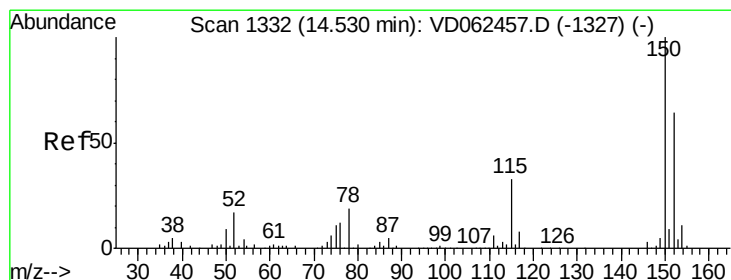
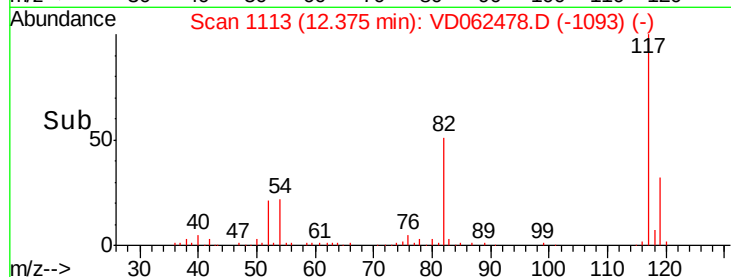
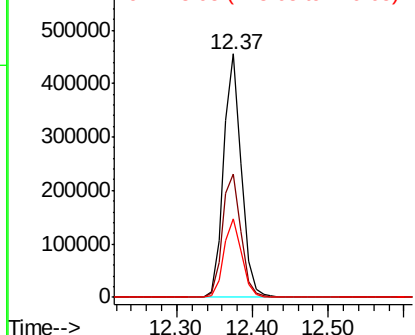
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 739256
Ion Ratio Lower Upper
117 100
82 50.7 36.2 54.2
119 32.0 26.2 39.4

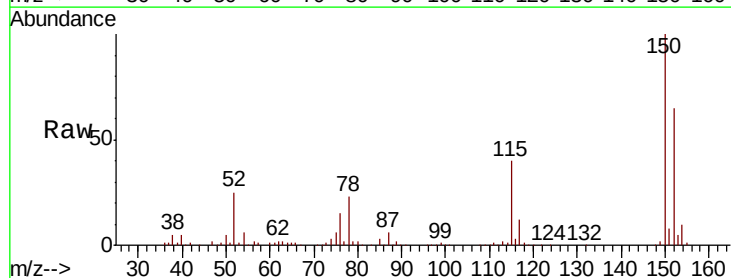


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): VD
Ion 118.95 (118.65 to 119.65): V

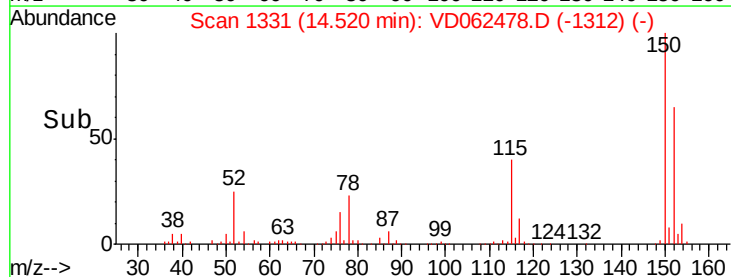
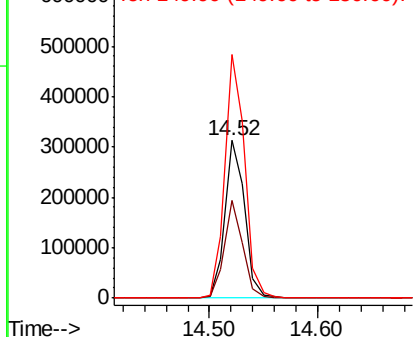


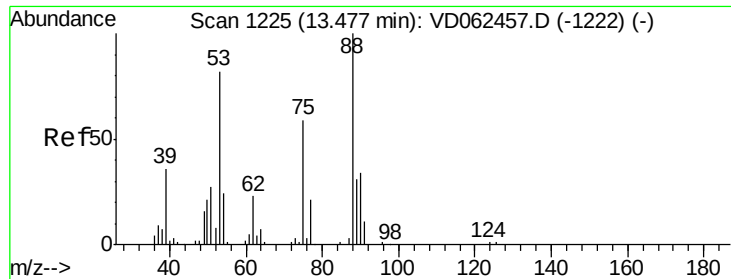
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD062478.D
Acq: 21 May 2019 13:56

Tgt Ion:152 Resp: 396130
Ion Ratio Lower Upper
152 100
115 61.8 30.9 92.7
150 154.4 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 98.332 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD062478.D

Acq: 21 May 2019 13:56

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 129398

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

89 0.0 35.0 52.6#

