

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070819\
 Data File : VD063048.D
 Acq On : 8 Jul 2019 20:35
 Operator : VA/AP
 Sample : K3627-01
 Misc : 4.56µl/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-070819

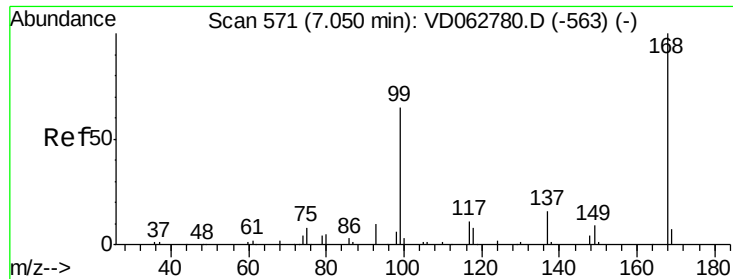
Quant Time: Jul 09 05:13:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	42468	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	57653	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	55951	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	29071	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	36506	79.08	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	158.16%	
35) Dibromofluoromethane	6.92	113	27066	55.68	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	111.36%	
50) Toluene-d8	10.40	98	45581	43.08	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	86.16%	
62) 4-Bromofluorobenzene	13.55	95	22558	46.89	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	699	3.642	ug/l #	13
6) Chloroethane	2.28	64	229	1.234	ug/l #	46
8) Diethyl Ether	2.84	74	179	1.699	ug/l	82
11) Tert butyl alcohol	4.07	59	194	9.227	ug/l #	77
13) Acrolein	2.87	56	221	10.297	ug/l #	15
16) Acetone	3.22	43	11967	124.318	ug/l #	91
18) Methyl Acetate	3.64	43	787	5.648	ug/l #	58
20) Methylene Chloride	3.80	84	2152	6.113	ug/l	88
25) 2-Butanone	6.07	43	185	2.143	ug/l #	64
29) Tetrahydrofuran	6.46	42	326	7.981	ug/l #	33
36) 1,1-Dichloropropene	7.06	75	3093	5.667	ug/l #	46
37) Ethyl Acetate	6.28	43	185	Below Cal	#	69
38) Carbon Tetrachloride	7.03	117	4502	5.485	ug/l #	13
51) 4-Methyl-2-Pentanone	10.29	43	282	1.390	ug/l #	41
52) Toluene	10.50	92	2683	3.643	ug/l #	35
58) 2-Chloroethyl Vinyl ether	9.84	63	471	3.393	ug/l #	47
59) 2-Hexanone	11.56	43	216	1.495	ug/l #	31
74) N-amyl acetate	13.18	43	1019	2.251	ug/l #	51
81) trans-1,4-Dichloro-2-buten	13.55	75	11737	133.441	ug/l #	2
84) 1,2,4-Trimethylbenzene	14.23	105	2171	1.353	ug/l	85
95) Naphthalene	16.12	128	1344	1.596	ug/l #	65

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

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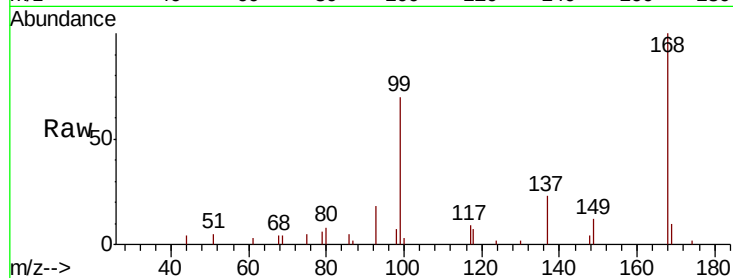
TR-05-070819

Tot Ion:168 Resp: 42468

Ion Ratio Lower Upper

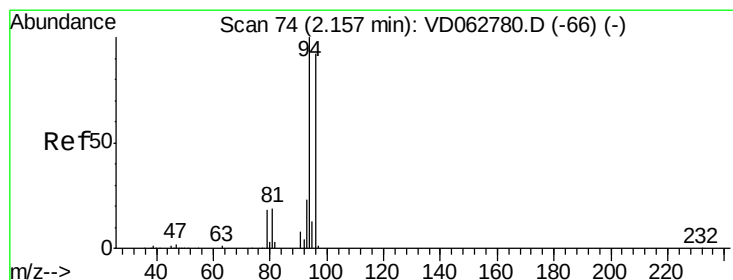
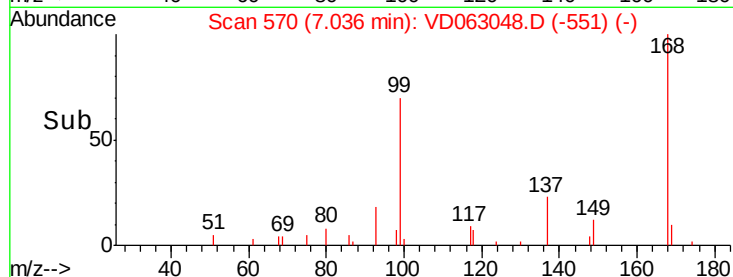
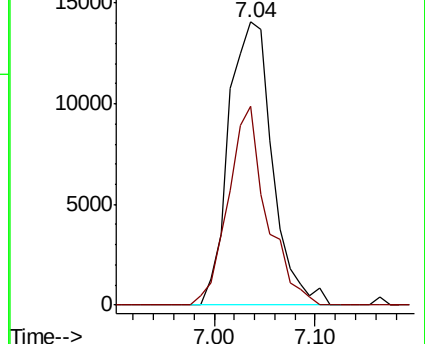
168 100

99 70.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 3.642 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.04 min

Lab File: VD063048.D

Acq: 8 Jul 2019 20:35

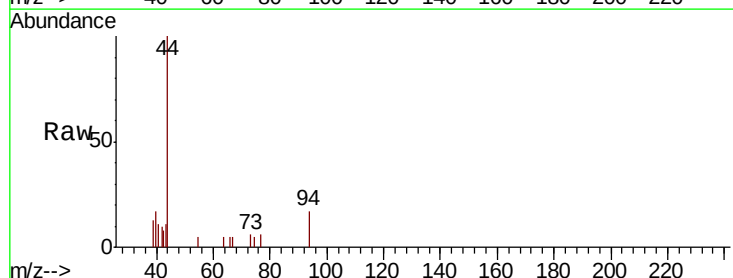
Tgt Ion: 94 Resp: 699

Ion Ratio Lower Upper

94 100

96 0.0 73.4 110.2#

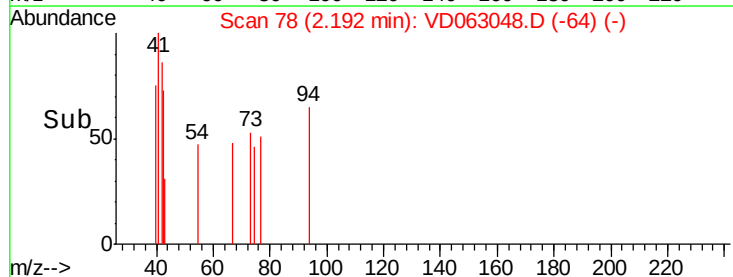
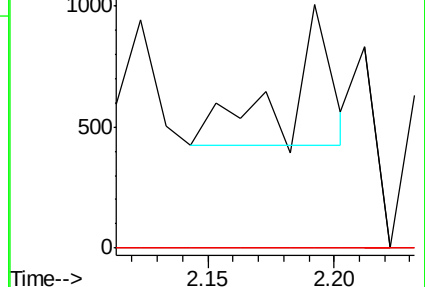
93 0.0 18.2 27.4#

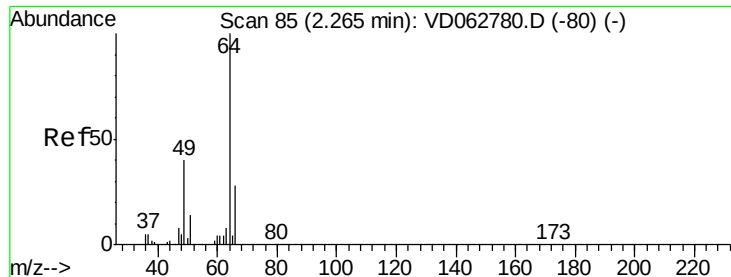


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#6

Chloroethane

Concen: 1.234 ug/l

RT: 2.28 min Scan# 87

Delta R.T. 0.02 min

Lab File: VD063048.D

Acq: 8 Jul 2019 20:35

Instrument :

MSVOA_D

ClientSampleId :

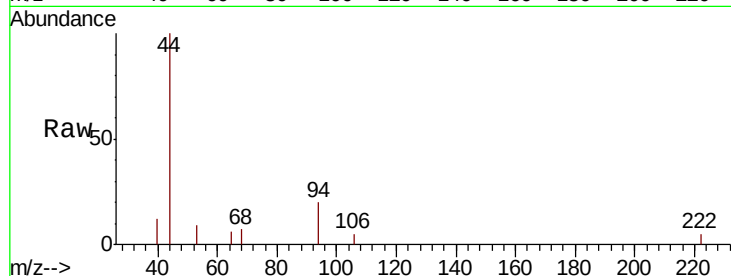
TR-05-070819

Tot Ion: 64 Resp: 229

Ion Ratio Lower Upper

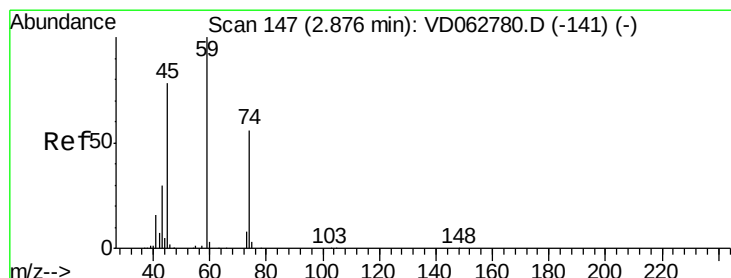
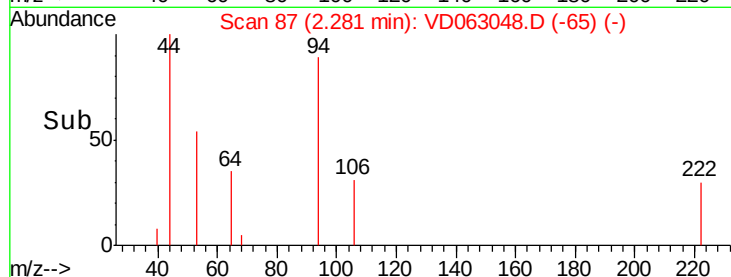
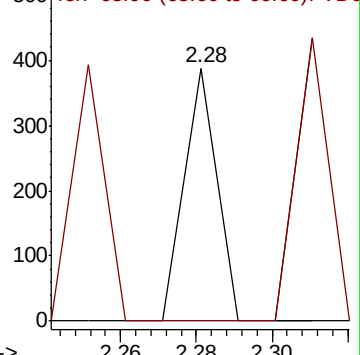
64 100

66 0.0 23.0 34.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



#8

Diethyl Ether

Concen: 1.699 ug/l

RT: 2.84 min Scan# 144

Delta R.T. -0.03 min

Lab File: VD063048.D

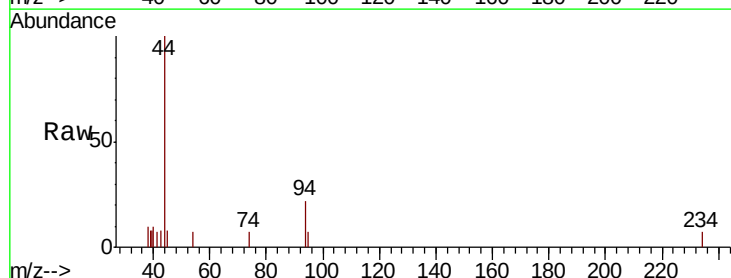
Acq: 8 Jul 2019 20:35

Tgt Ion: 74 Resp: 179

Ion Ratio Lower Upper

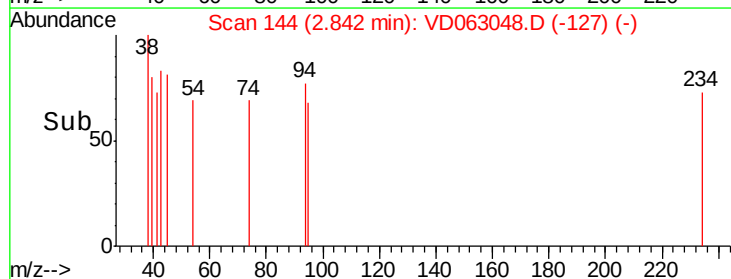
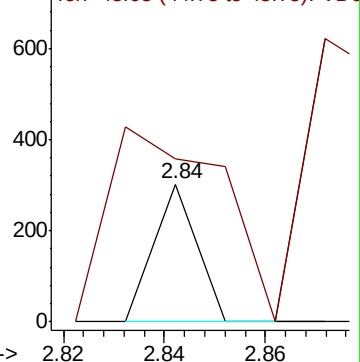
74 100

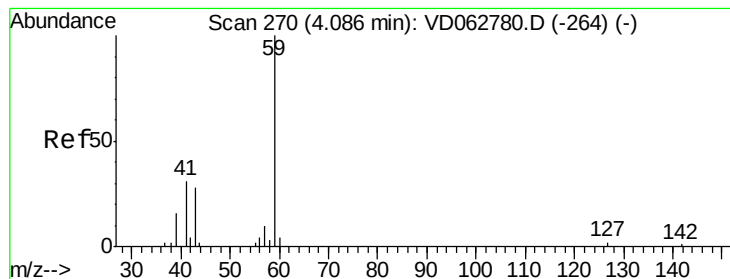
45 118.5 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



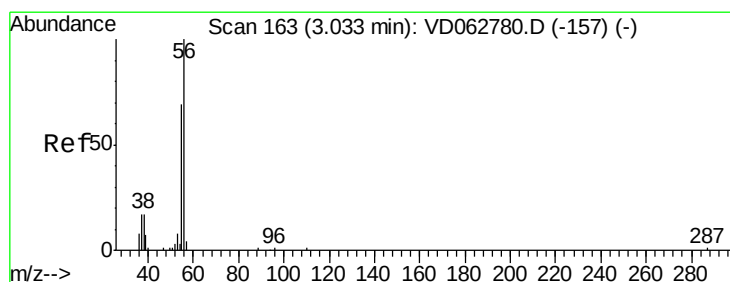
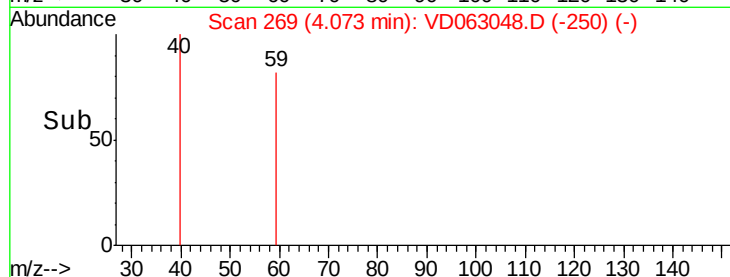
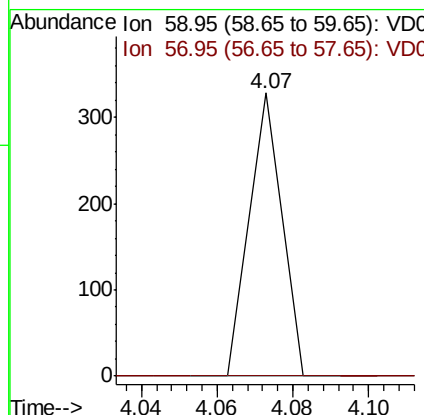
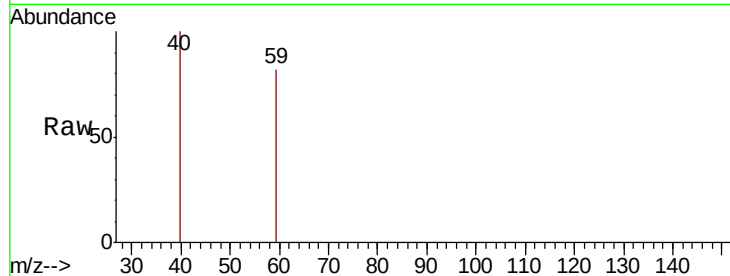


#11

Tert butyl alcohol
 Concen: 9.227 ug/l
 RT: 4.07 min Scan# 269
 Delta R.T. -0.01 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-070819

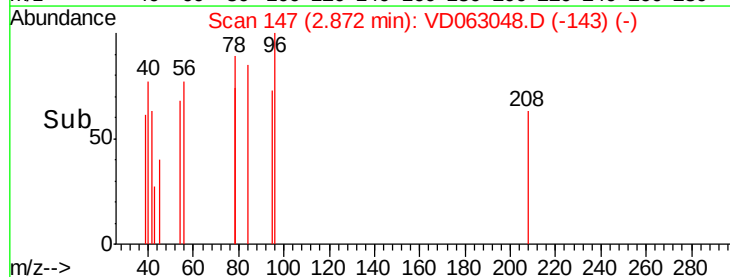
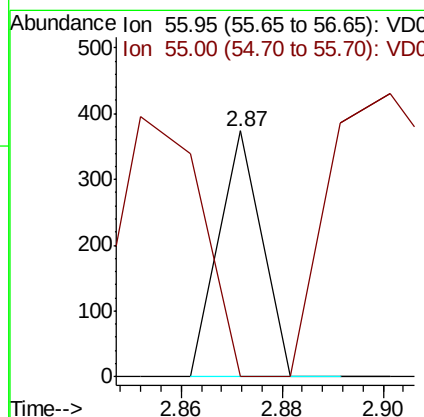
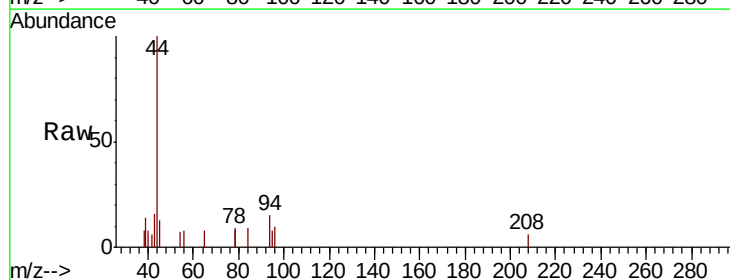
Tot Ion: 59 Resp: 194
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.6 10.0#

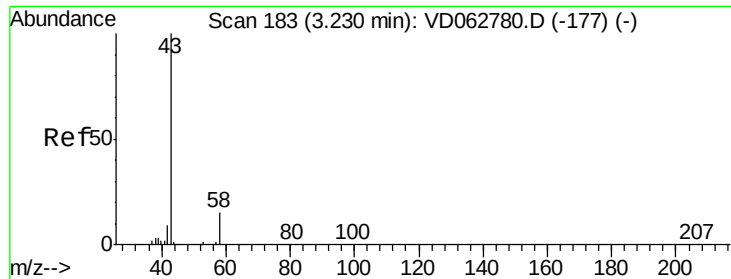


#13

Acrolein
 Concen: 10.297 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. -0.16 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

Tgt Ion: 56 Resp: 221
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.4 83.0#

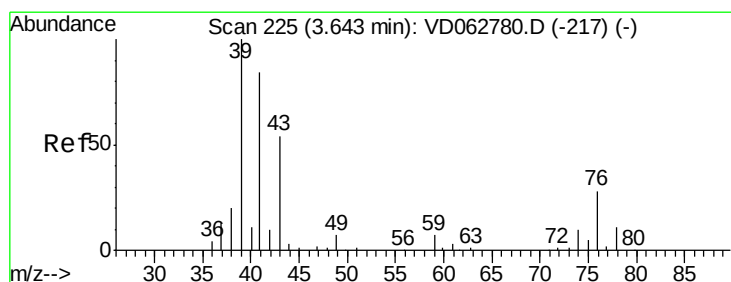
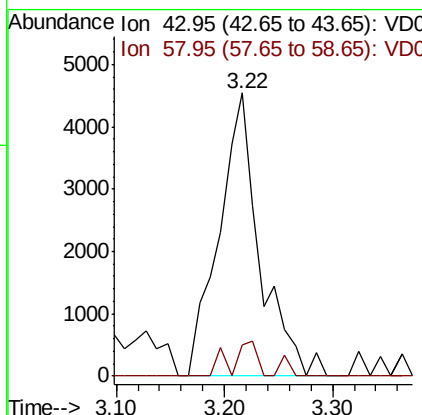
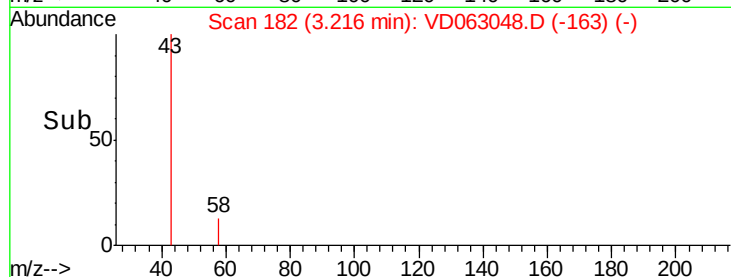
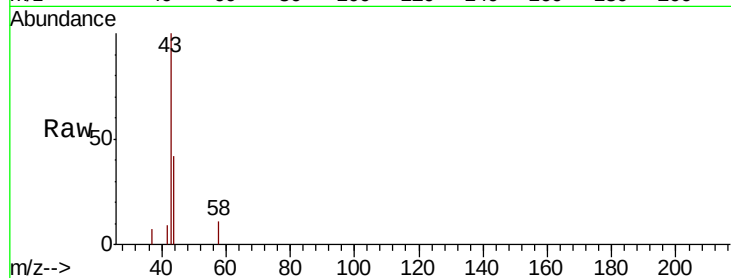




#16
Acetone
Concen: 124.318 ug/l
RT: 3.22 min Scan# 182
Delta R.T. -0.01 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

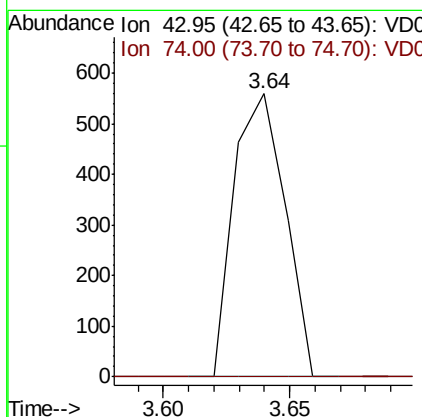
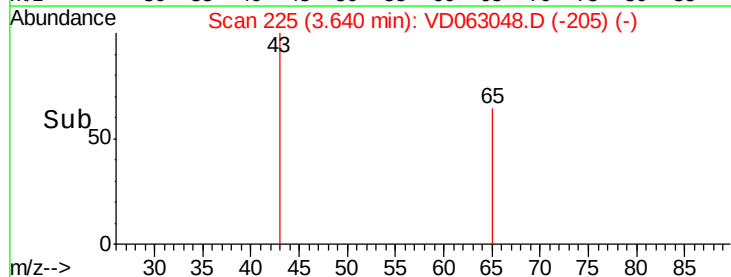
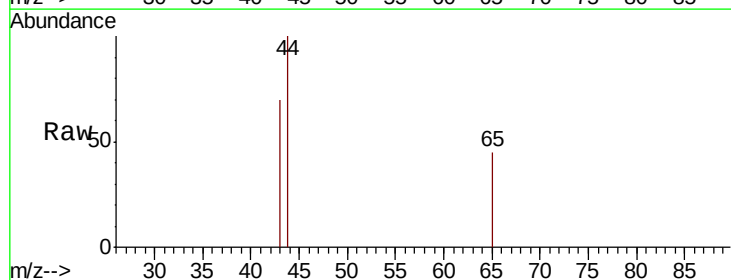
Instrument :
MSVOA_D
ClientSampleId :
TR-05-070819

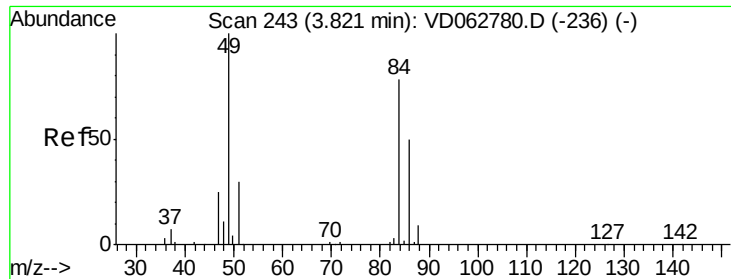
Tot Ion: 43 Resp: 11967
Ion Ratio Lower Upper
43 100
58 11.1 11.9 17.9#



#18
Methyl Acetate
Concen: 5.648 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

Tgt Ion: 43 Resp: 787
Ion Ratio Lower Upper
43 100
74 0.0 15.2 22.8#

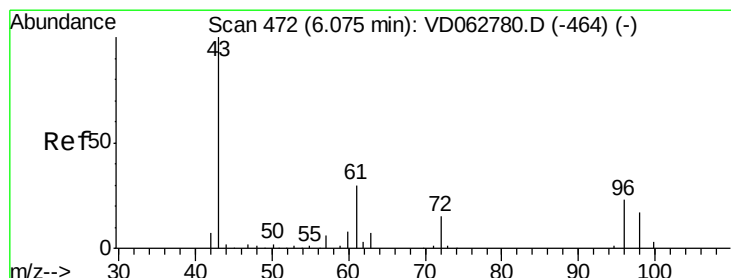
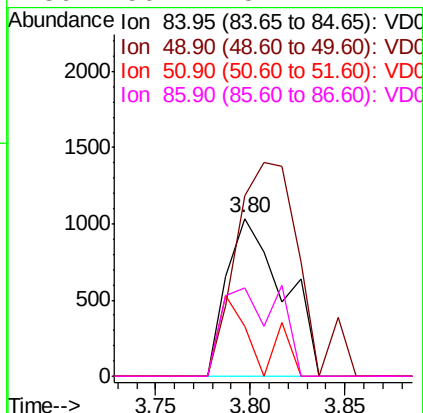
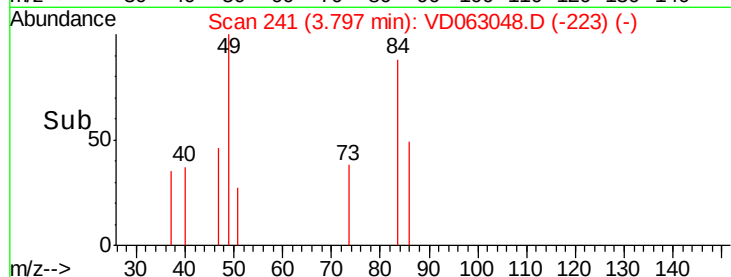
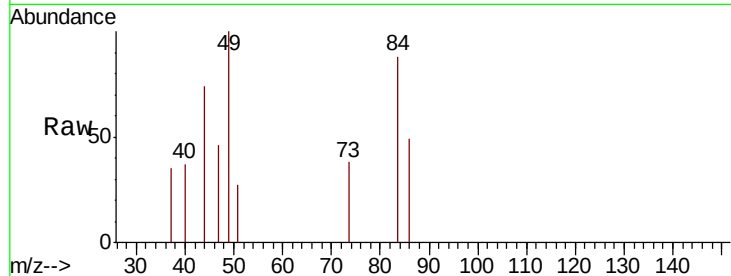




#20
Methvlene Chloride
Concen: 6.113 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

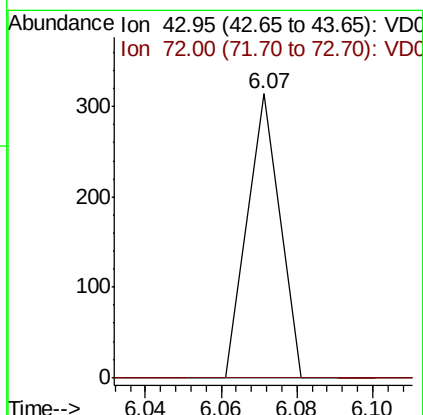
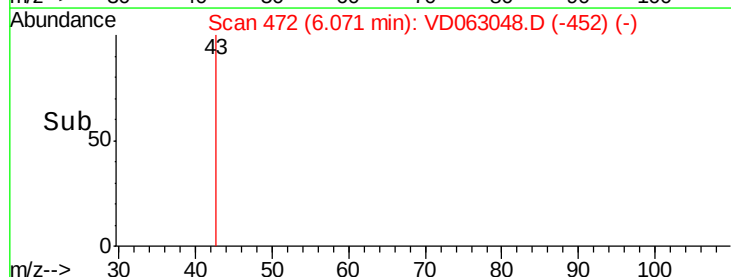
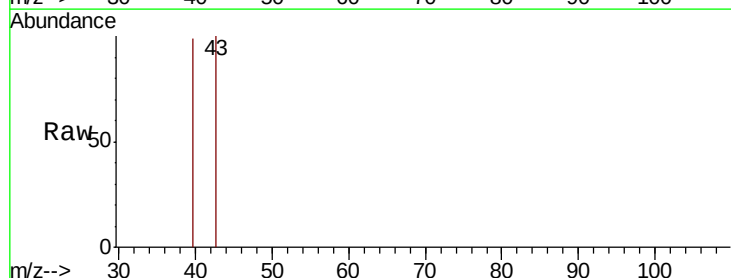
Instrument :
MSVOA_D
ClientSampleId :
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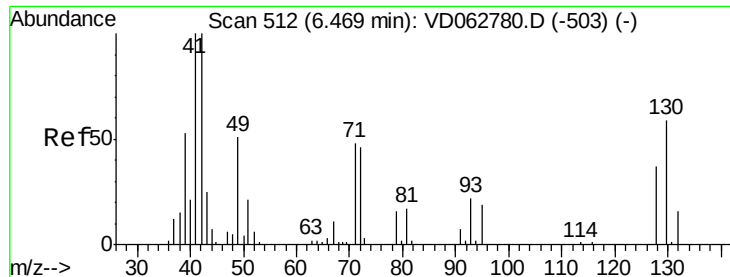
Tot Ion: 84 Resp: 2152
Ion Ratio Lower Upper
84 100
49 114.1 102.9 154.3
51 31.3 31.2 46.8
86 56.1 51.4 77.2



#25
2-Butanone
Concen: 2.143 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.00 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

Tgt Ion: 43 Resp: 185
Ion Ratio Lower Upper
43 100
72 0.0 11.9 17.9#





#29

Tetrahydrofuran

Concen: 7.981 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD063048.D

Acq: 8 Jul 2019 20:35

Instrument :

MSVOA_D

ClientSampleId :

TR-05-070819

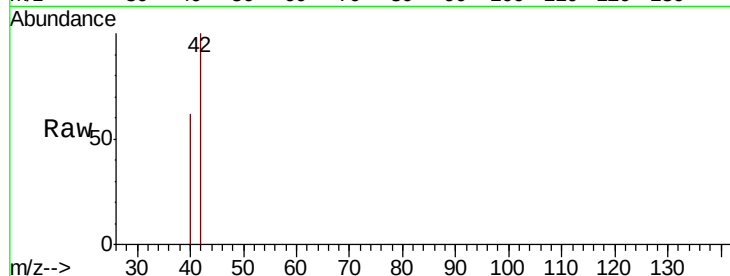
Tot Ion: 42 Resp: 326

Ion Ratio Lower Upper

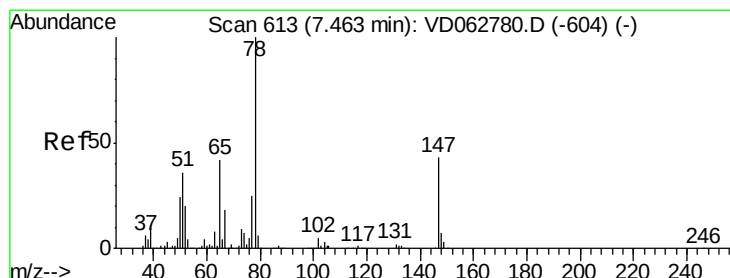
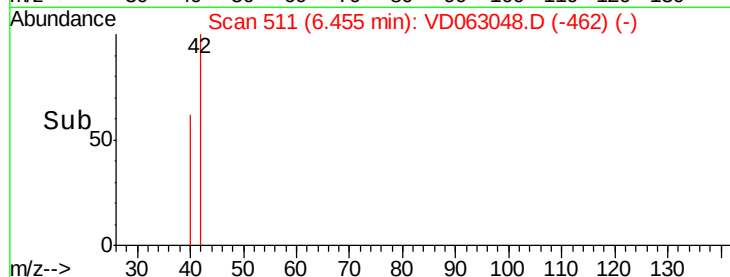
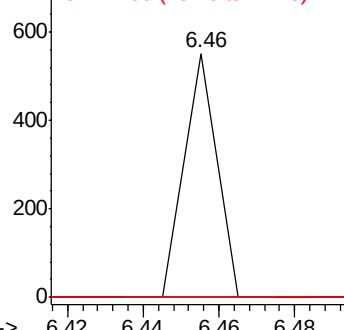
42 100

72 0.0 35.0 52.6#

71 0.0 33.3 49.9#



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: 79.082 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.02 min

Lab File: VD063048.D

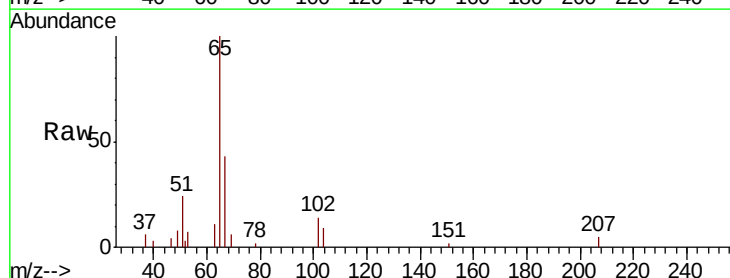
Acq: 8 Jul 2019 20:35

Tgt Ion: 65 Resp: 36506

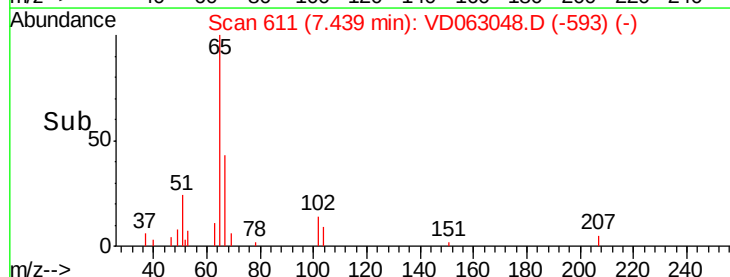
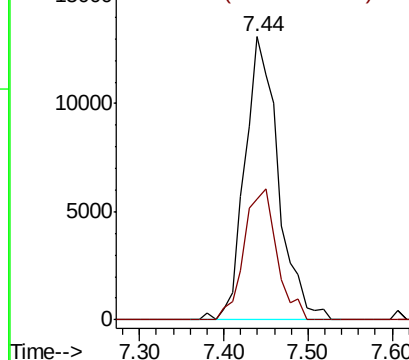
Ion Ratio Lower Upper

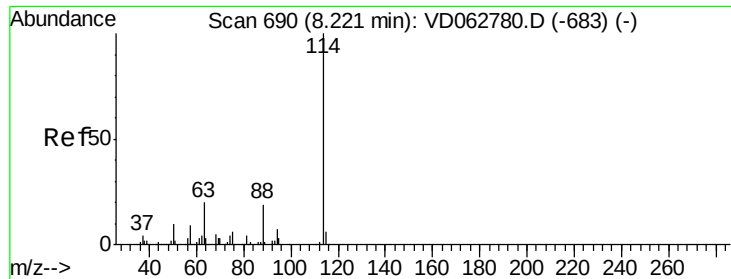
65 100

67 42.7 0.0 87.4



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

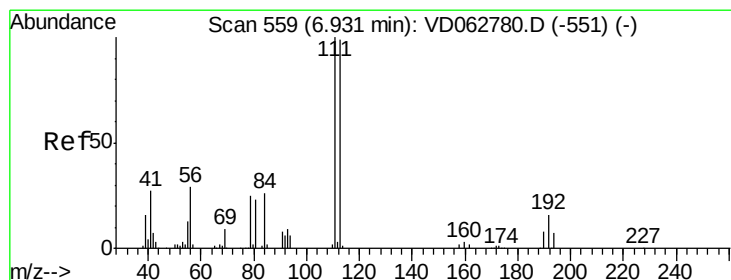
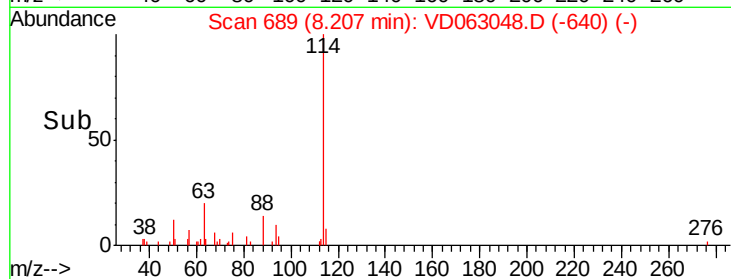
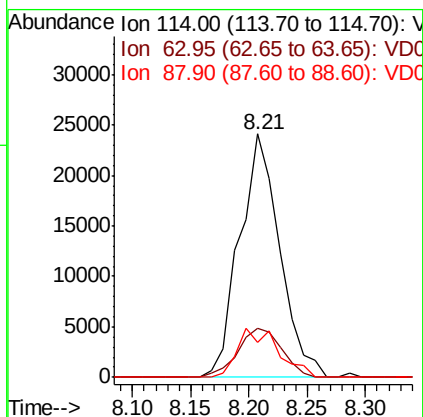
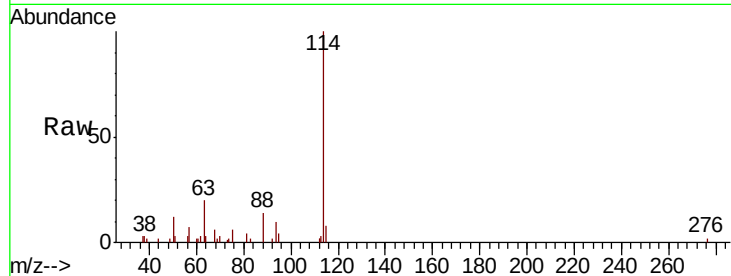




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

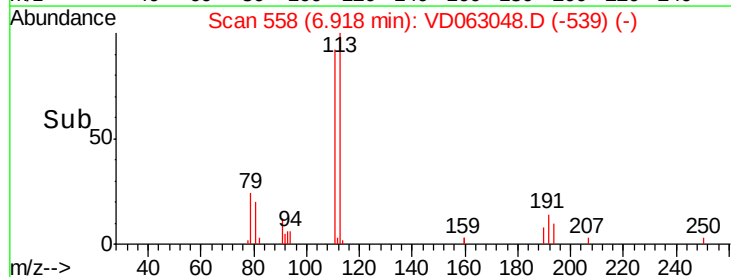
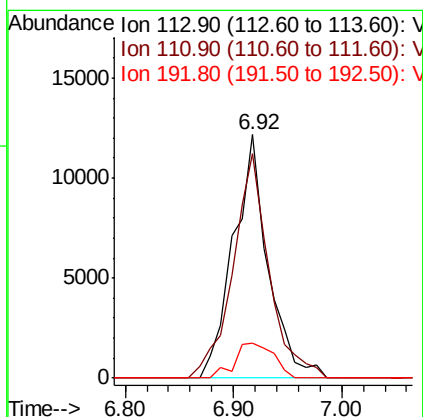
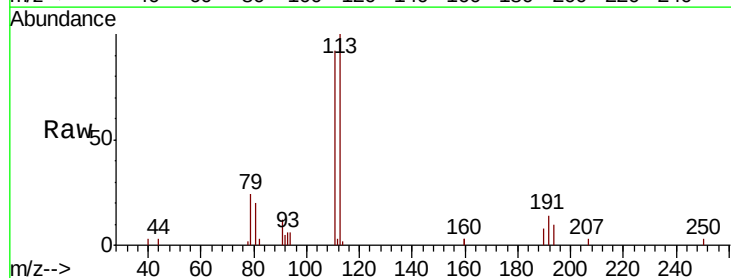
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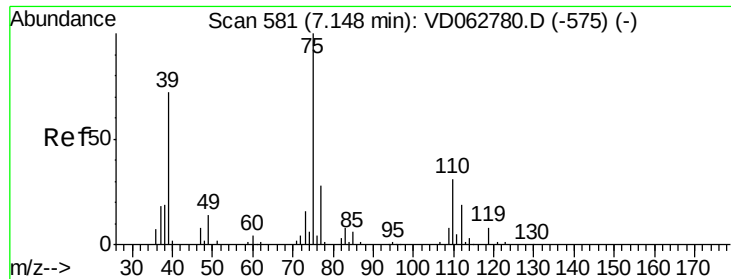
Tot Ion	114	Resp: Lower	57653 Upper
114	100		
63	22.9	0.0	40.0
88	14.2	0.0	38.8



#35
 Dibromofluoromethane
 Concen: 55.677 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. -0.01 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

Tgt Ion:113	Resp:	27066
Ion Ratio	Lower	Upper
113 100		
111 92.0	81.2	121.8
192 14.2	12.9	19.3

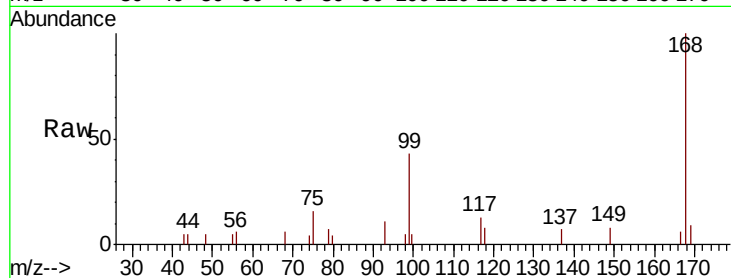




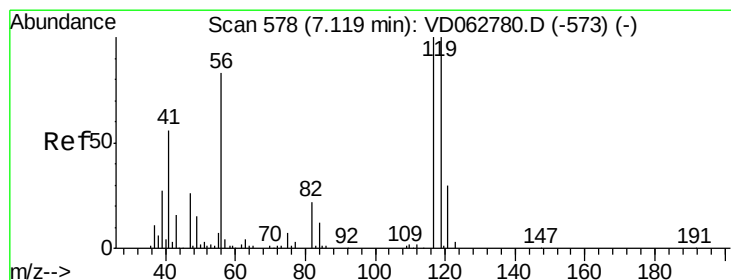
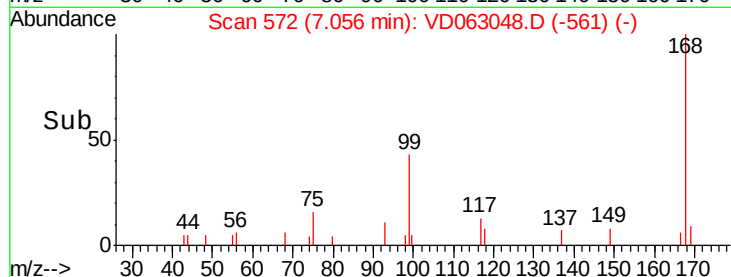
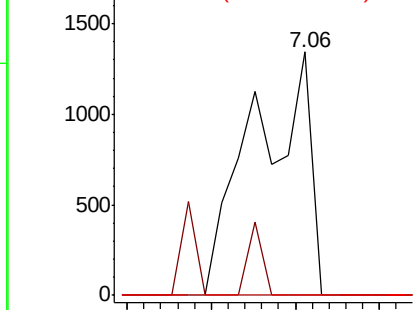
#36
 1,1-Dichloropropene
 Concen: 5.667 ug/l
 RT: 7.06 min Scan# 572
 Delta R.T. -0.09 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-070819

Tot Ion: 75 Resp: 3093
 Ion Ratio Lower Upper
 75 100
 110 0.0 15.0 45.1#
 77 0.0 22.2 33.2#

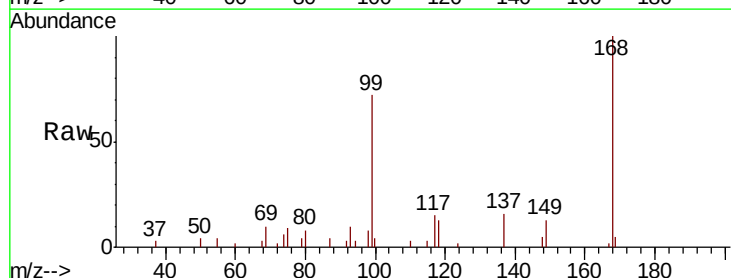


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

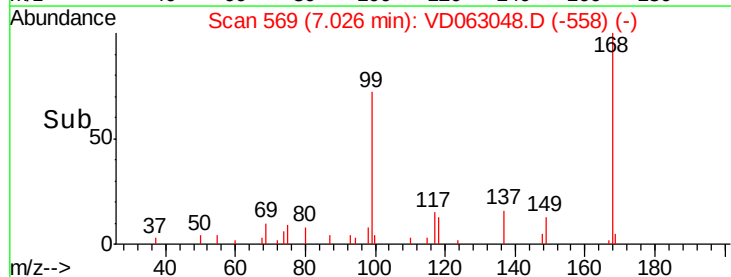
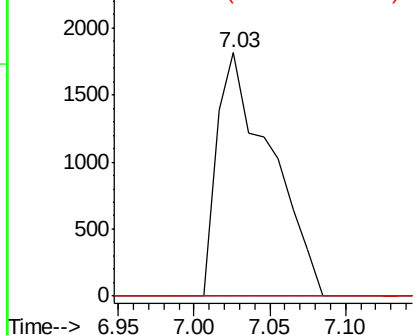


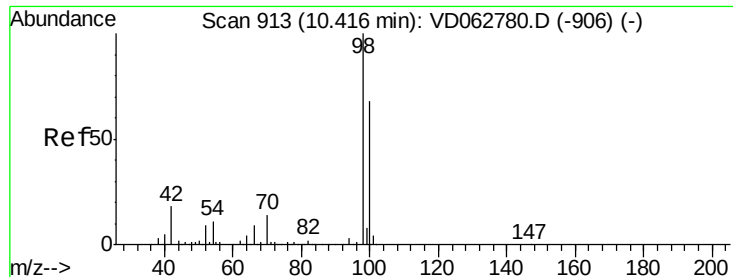
#38
 Carbon Tetrachloride
 Concen: 5.485 ug/l
 RT: 7.03 min Scan# 569
 Delta R.T. -0.09 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

Tgt Ion: 117 Resp: 4502
 Ion Ratio Lower Upper
 117 100
 119 0.0 75.4 113.2#
 121 0.0 22.3 33.5#



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

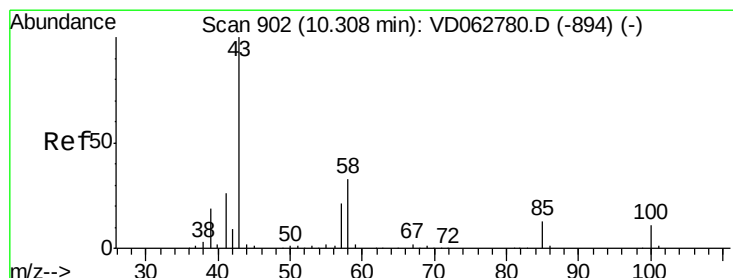
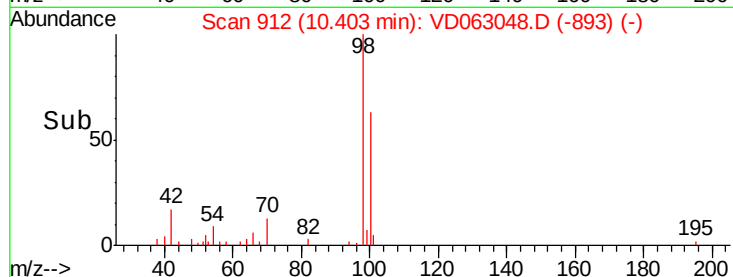
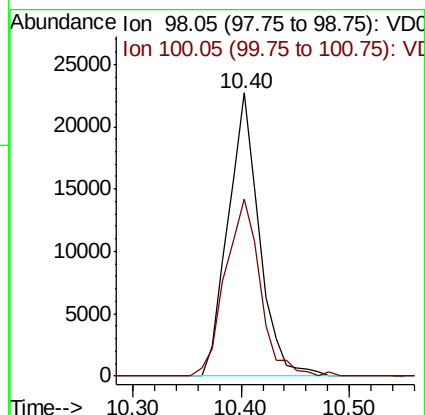
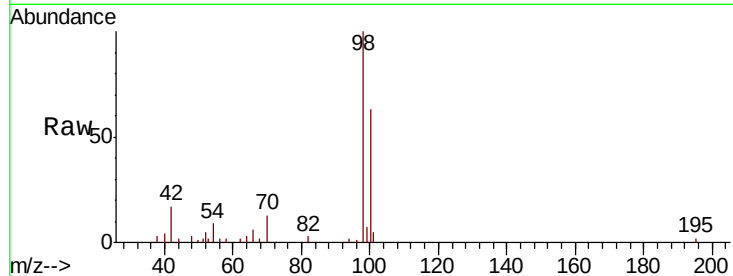




#50
Toluene-d8
Concen: 43.081 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

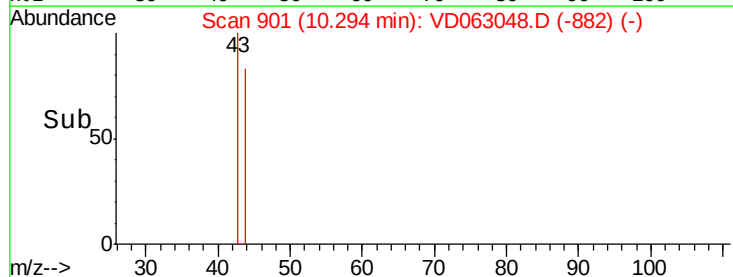
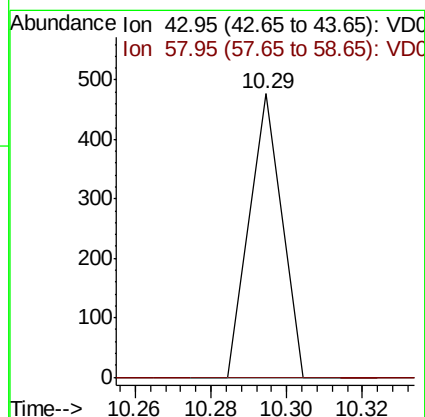
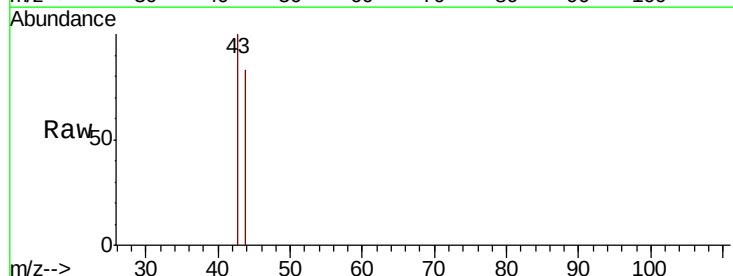
Instrument :
MSVOA_D
ClientSampleId :
TR-05-070819

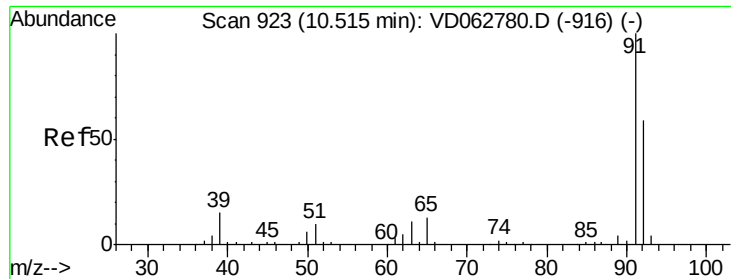
Tot Ion: 98 Resp: 45581
Ion Ratio Lower Upper
98 100
100 62.6 54.7 82.1



#51
4-Methyl-2-Pentanone
Concen: 1.390 ug/l
RT: 10.29 min Scan# 901
Delta R.T. -0.01 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

Tgt Ion: 43 Resp: 282
Ion Ratio Lower Upper
43 100
58 0.0 26.6 40.0#





#52

Toluene

Concen: 3.643 ug/l

RT: 10.50 min Scan# 922

Delta R.T. -0.01 min

Lab File: VD063048.D

Acq: 8 Jul 2019 20:35

Instrument :

MSVOA_D

ClientSampleId :

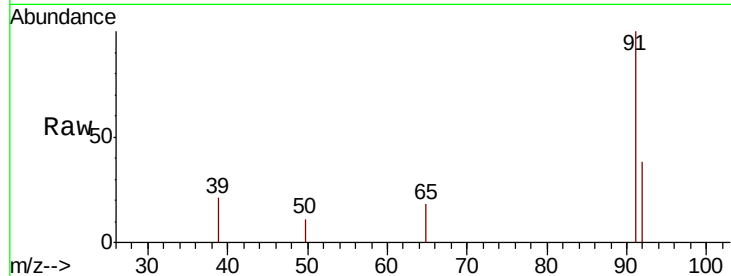
TR-05-070819

Tot Ion: 92 Resp: 2683

Ion Ratio Lower Upper

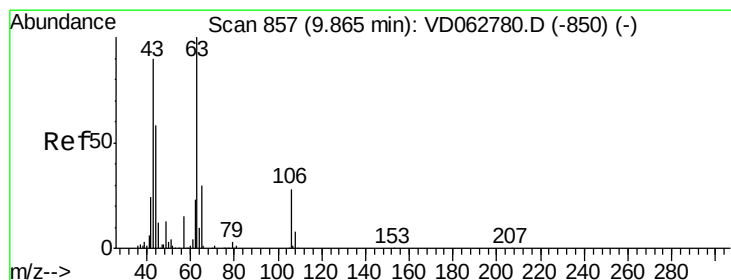
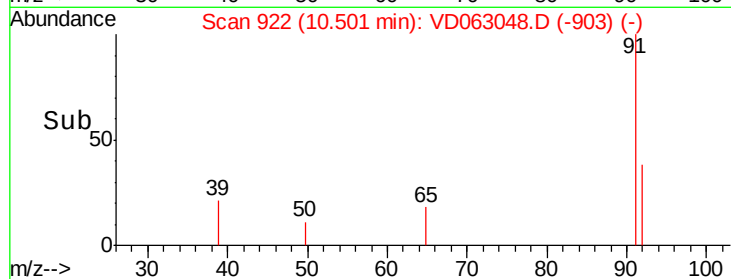
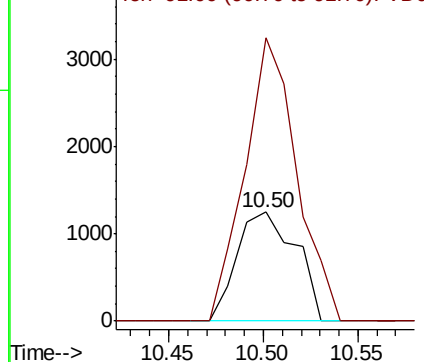
92 100

91 259.9 136.3 204.5#



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: 3.393 ug/l

RT: 9.84 min Scan# 855

Delta R.T. -0.02 min

Lab File: VD063048.D

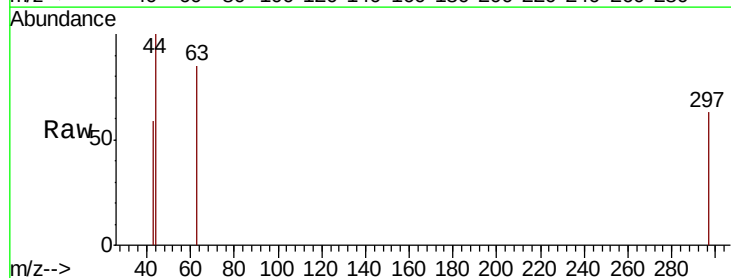
Acq: 8 Jul 2019 20:35

Tgt Ion: 63 Resp: 471

Ion Ratio Lower Upper

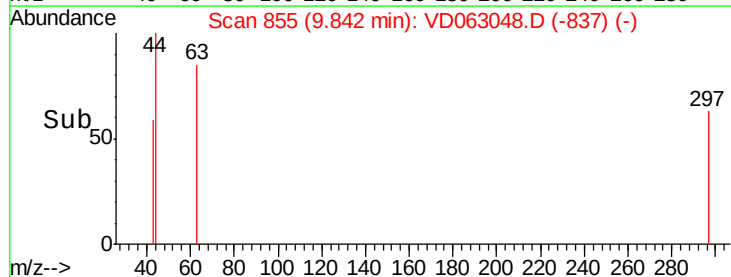
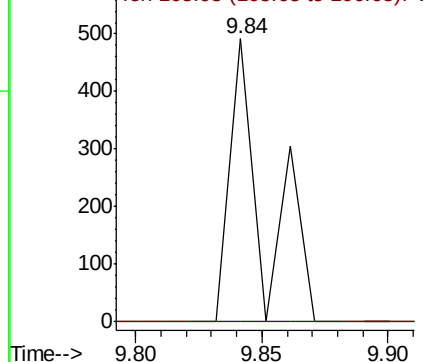
63 100

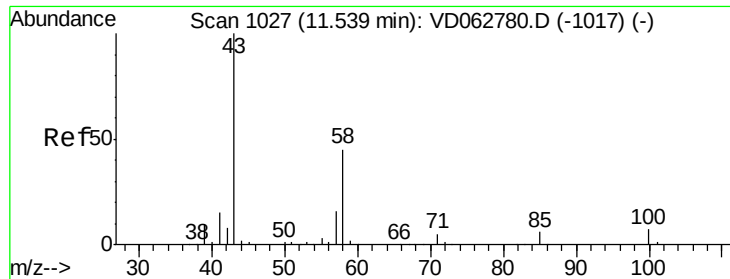
106 0.0 22.1 33.1#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

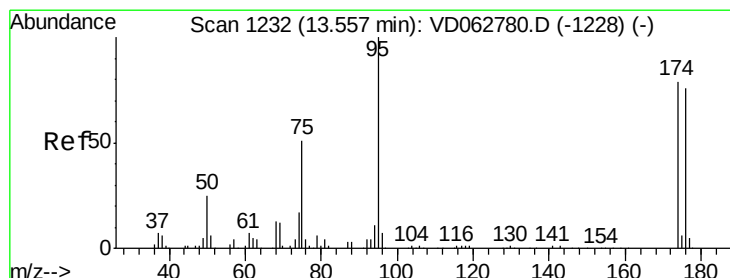
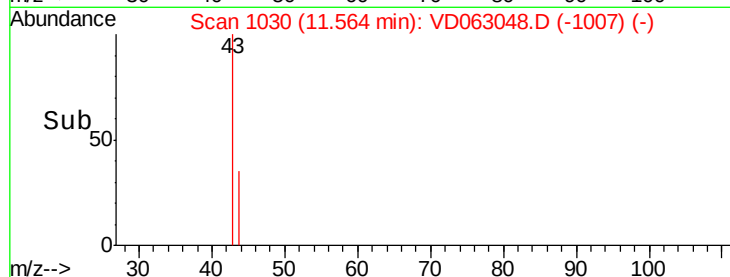
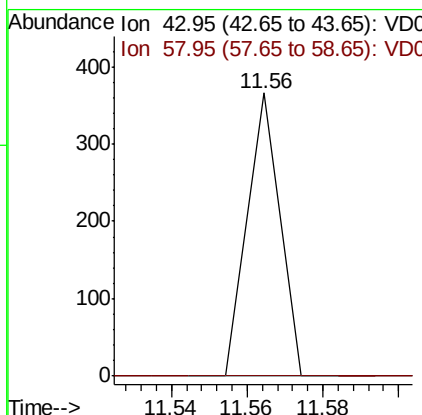
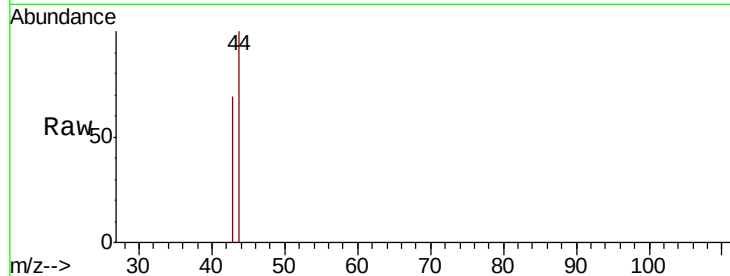




#59
2-Hexanone
Concen: 1.495 ug/l
RT: 11.56 min Scan# 1030
Delta R.T. 0.03 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

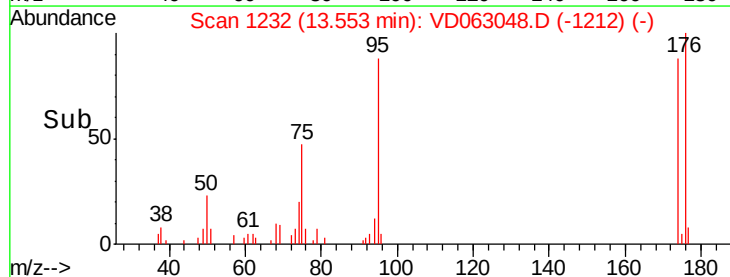
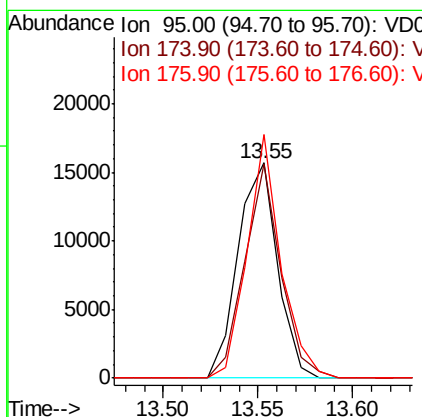
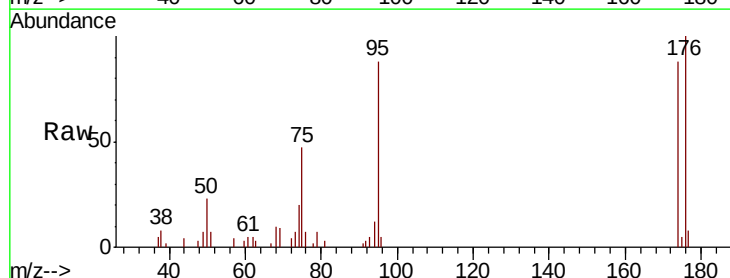
Instrument :
MSVOA_D
ClientSampleId :
TR-05-070819

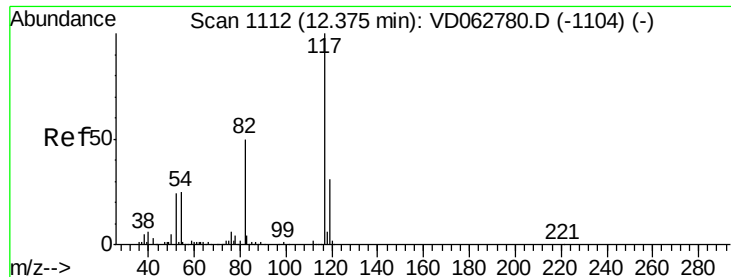
Tot Ion: 43 Resp: 216
Ion Ratio Lower Upper
43 100
58 0.0 22.4 67.2#



#62
4-Bromofluorobenzene
Concen: 46.889 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

Tgt Ion: 95 Resp: 22558
Ion Ratio Lower Upper
95 100
174 99.4 0.0 158.0
176 113.2 0.0 151.6

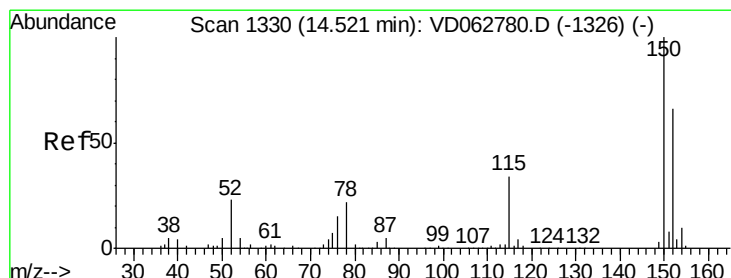
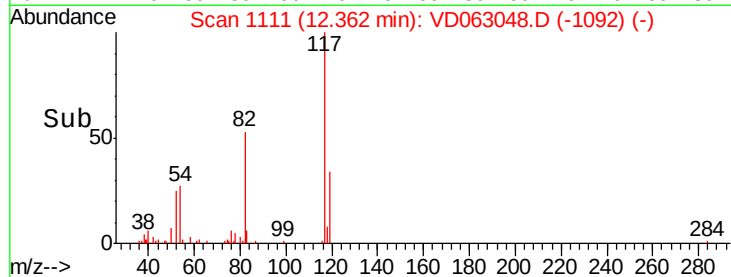
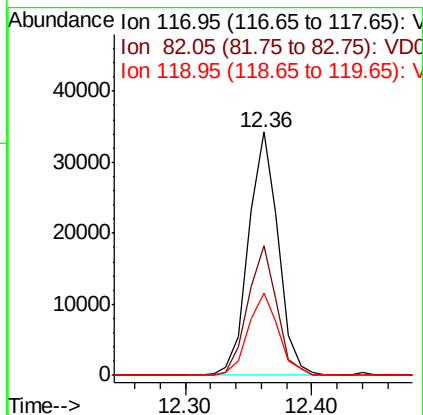
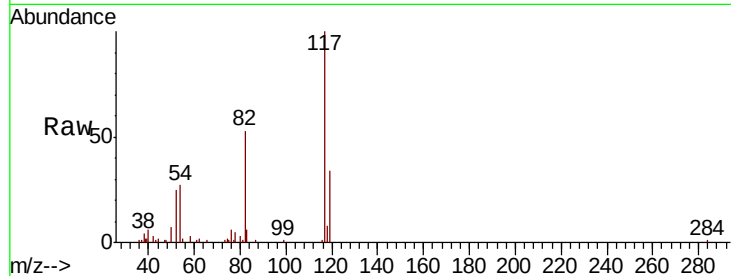




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

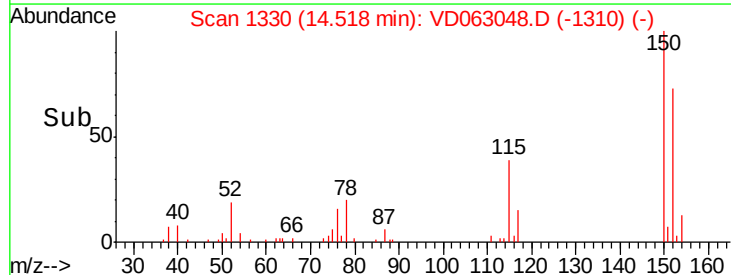
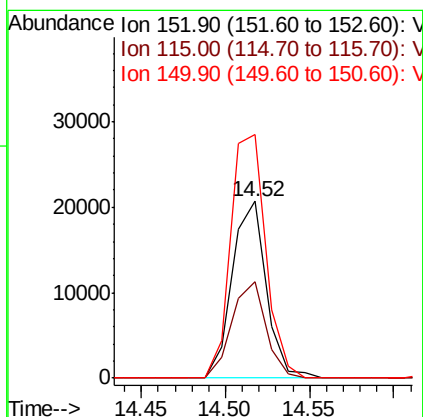
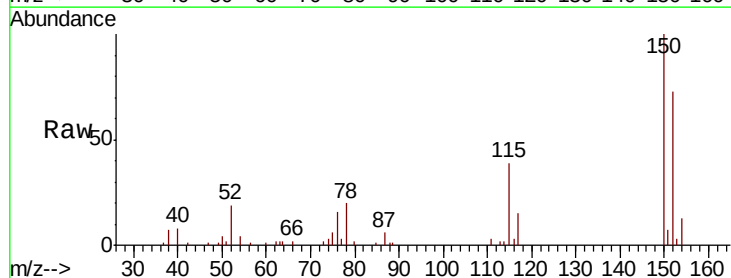
Instrument :
MSVOA_D
ClientSampleId :
TR-05-070819

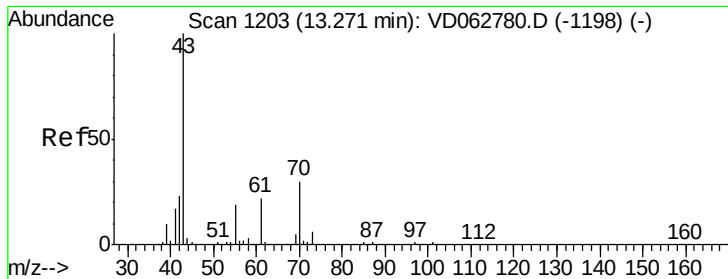
Tot Ion:117 Resp: 55951
Ion Ratio Lower Upper
117 100
82 53.2 40.4 60.6
119 33.6 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD063048.D
Acq: 8 Jul 2019 20:35

Tgt Ion:152 Resp: 29071
Ion Ratio Lower Upper
152 100
115 54.5 29.2 87.6
150 137.9 0.0 305.8





#74

N-amvl acetate

Concen: 2.251 ug/l

RT: 13.18 min Scan# 1194

Delta R.T. -0.09 min

Lab File: VD063048.D

Acq: 8 Jul 2019 20:35

Instrument :

MSVOA_D

ClientSampleId :

TR-05-070819

Tot Ion: 43 Resp: 1019

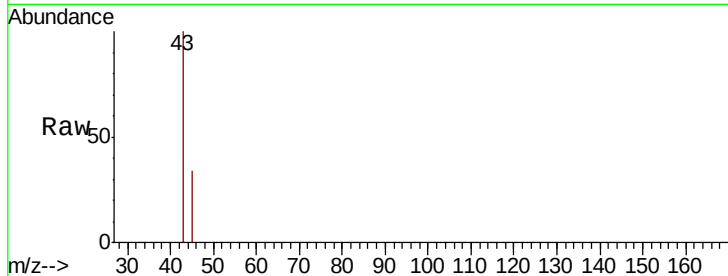
Ion Ratio Lower Upper

43 100

70 0.0 24.4 36.6#

55 0.0 15.2 22.8#

61 0.0 17.4 26.2#

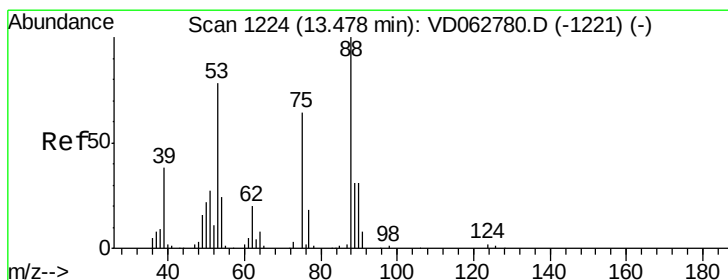
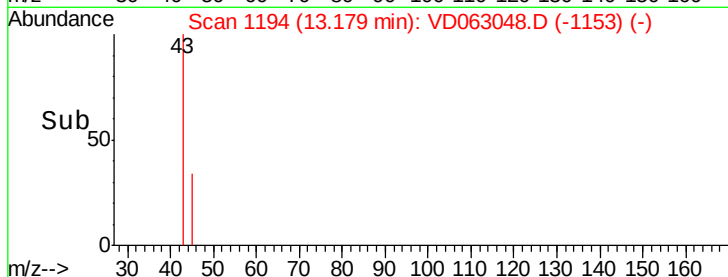
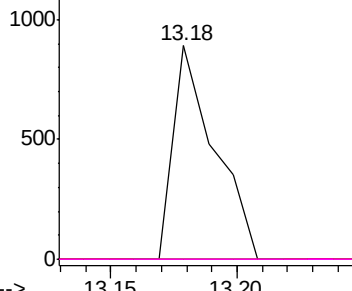


Abundance Ion 42.95 (42.65 to 43.65): VDC

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



#81

trans-1,4-Dichloro-2-butene

Concen: 133.441 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD063048.D

Acq: 8 Jul 2019 20:35

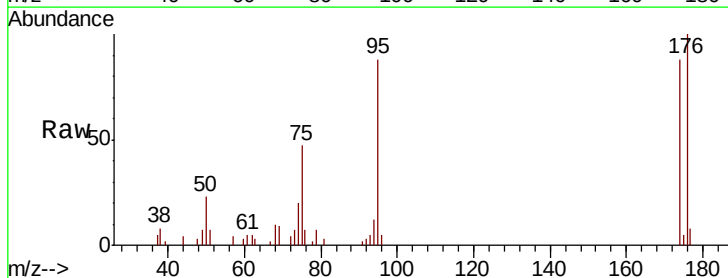
Tgt Ion: 75 Resp: 11737

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

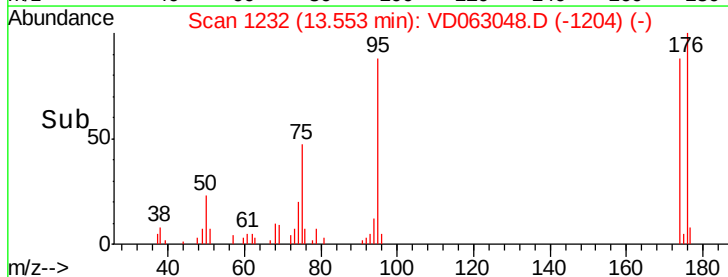
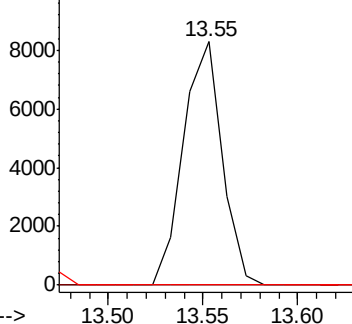
89 0.0 39.4 59.2#

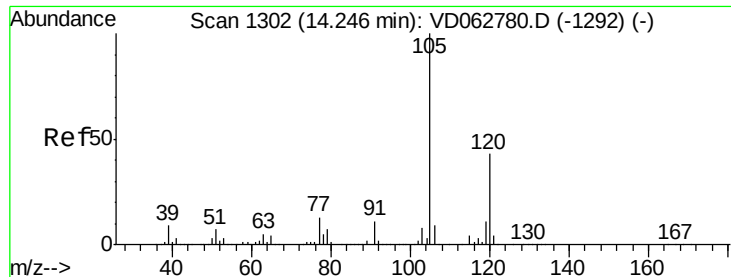


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

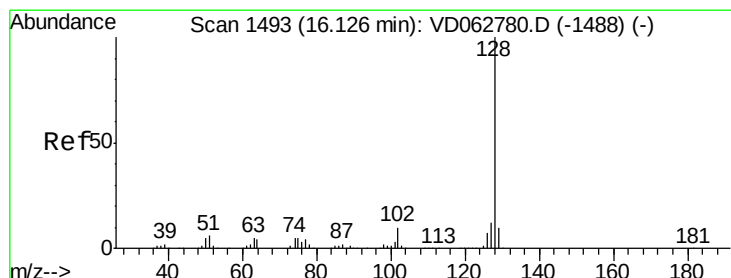
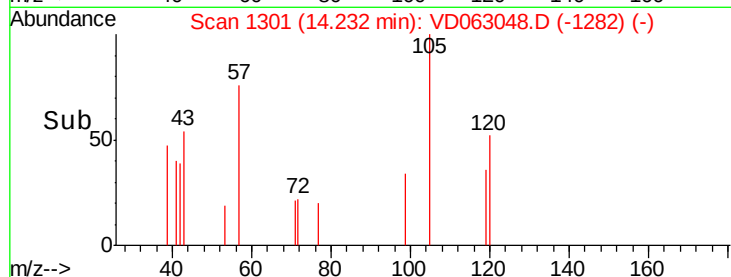
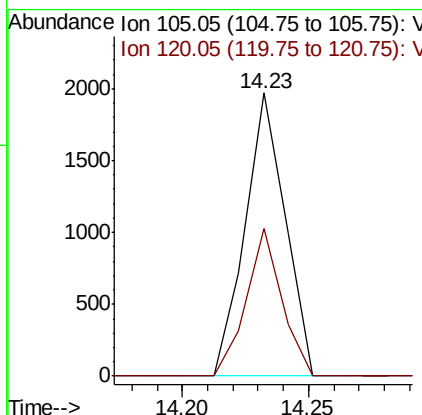
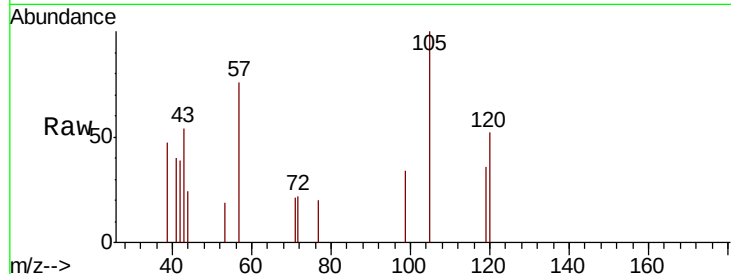




#84
 1,2,4-Trimethylbenzene
 Concen: 1.353 ug/l
 RT: 14.23 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-070819

Tot Ion:105 Resp: 2171
 Ion Ratio Lower Upper
 105 100
 120 52.1 21.3 63.9



#95
 Naphthalene
 Concen: 1.596 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD063048.D
 Acq: 8 Jul 2019 20:35

Tgt Ion:128 Resp: 1344
 Ion Ratio Lower Upper
 128 100
 127 28.3 9.7 14.5#
 129 0.0 8.3 12.5#

