

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063448.D
 Acq On : 8 Aug 2019 19:41
 Operator : JC/SY
 Sample : K4223-16
 Misc : 3.94g/5ml/MSVOA_D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-8

Quant Time: Aug 09 07:00:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	127197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	197230	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	146318	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	60667	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	95253	67.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	134.98%	
35) Dibromofluoromethane	6.93	113	76702	45.55	ug/l	0.02
Spiked Amount	50.000		Recovery	=	91.10%	
50) Toluene-d8	10.41	98	127433	33.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.62%	
62) 4-Bromofluorobenzene	13.56	95	48844	28.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	56.88%	

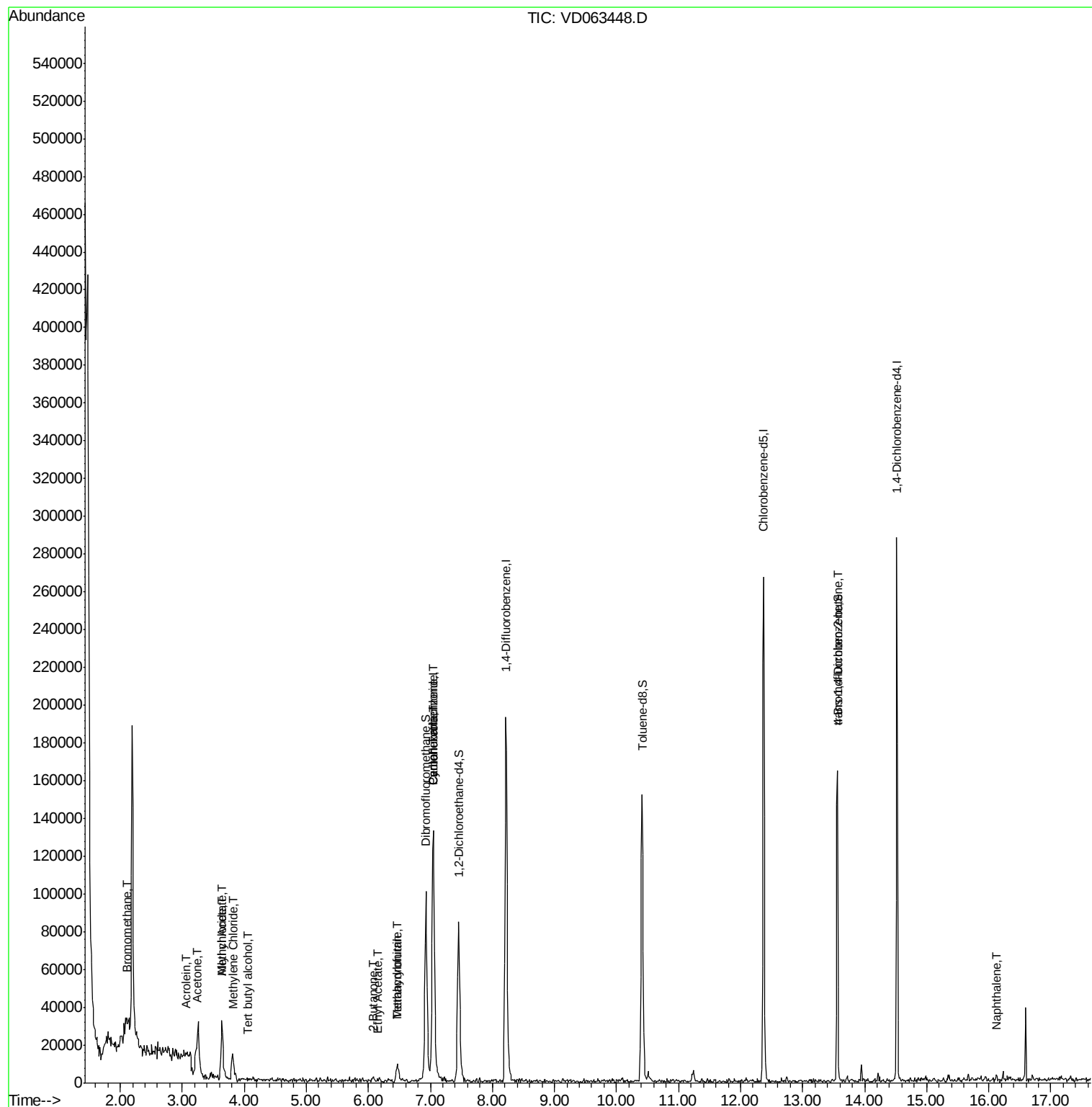
Target Compounds						Qvalue
5) Bromomethane	2.11	94	4844	7.680	ug/l #	12
11) Tert butyl alcohol	4.06	59	181	2.922	ug/l #	69
13) Acrolein	3.05	56	395	6.626	ug/l	85
14) Allyl chloride	3.63	41	1757	1.118	ug/l #	11
16) Acetone	3.23	43	24439	88.872	ug/l #	88
18) Methyl Acetate	3.64	43	51182	96.897	ug/l	94
20) Methylene Chloride	3.83	84	9121	8.206	ug/l #	77
25) 2-Butanone	6.07	43	5453	19.759	ug/l #	56
29) Tetrahydrofuran	6.47	42	7924	60.646	ug/l #	72
31) Cyclohexane	7.05	56	1518	1.207	ug/l #	1
37) Ethyl Acetate	6.14	43	875	1.082	ug/l #	70
38) Carbon Tetrachloride	7.04	117	13365	4.932	ug/l #	16
41) Methacrylonitrile	6.46	41	5061	5.232	ug/l #	60
81) trans-1,4-Dichloro-2-buten	13.55	75	20254	100.098	ug/l #	3
95) Naphthalene	16.13	128	2406	1.282	ug/l #	70

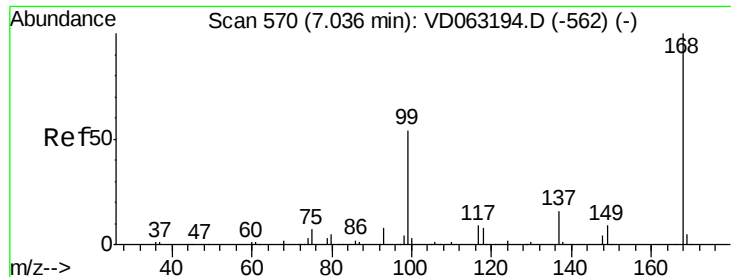
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

Instrument :

MSVOA_D

ClientSampleId :

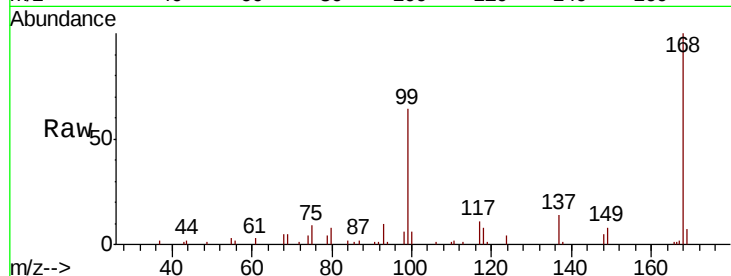
SP-8

Tgt Ion:168 Resp: 127197

Ion Ratio Lower Upper

168 100

99 63.8 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

40000

30000

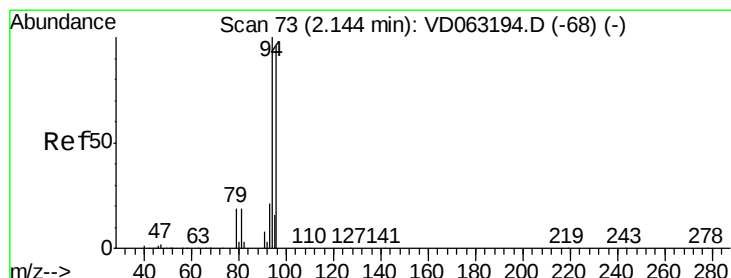
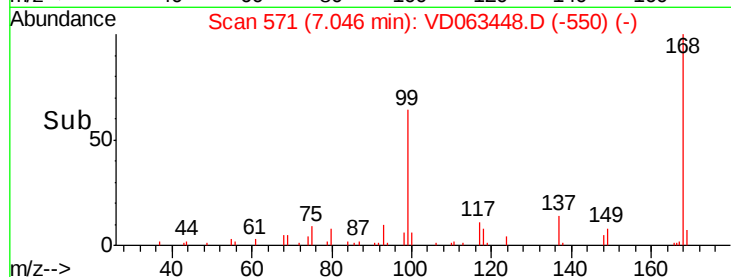
20000

10000

0

6.90 7.00 7.10 7.20

Time-->



#5

Bromomethane

Concen: 7.680 ug/l

RT: 2.11 min Scan# 70

Delta R.T. -0.03 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

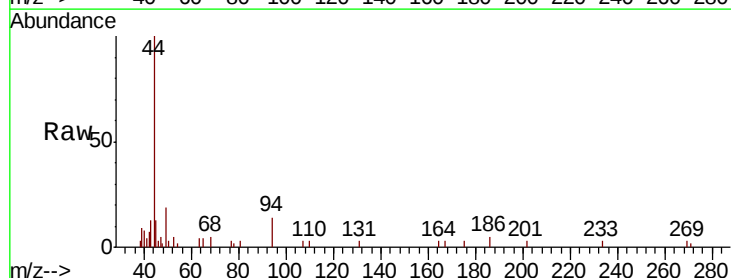
Tgt Ion: 94 Resp: 4844

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

93 0.0 17.3 25.9#



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

2000

1500

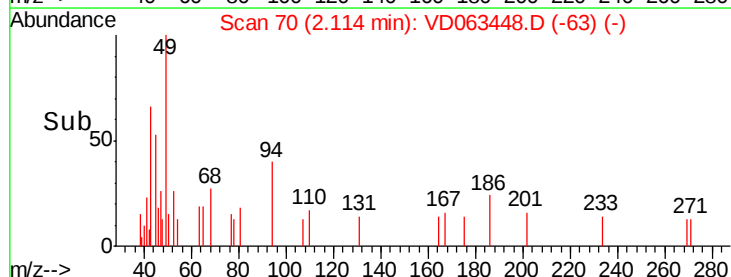
1000

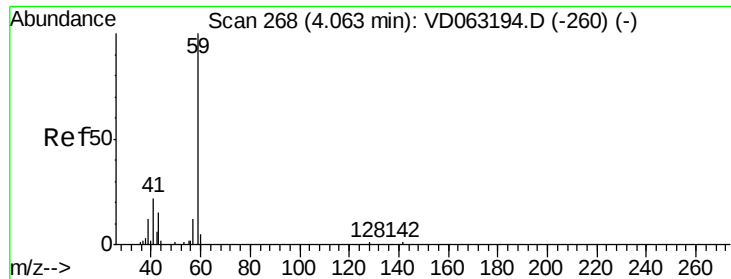
500

0

2.05 2.10 2.15

Time-->

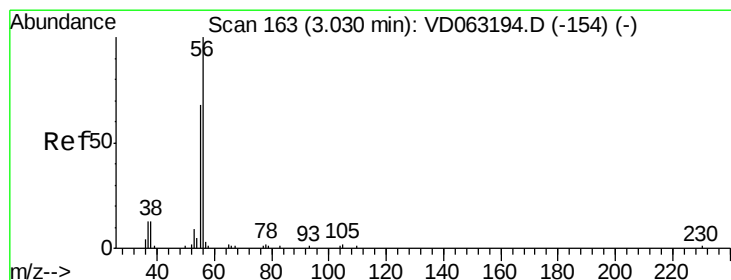
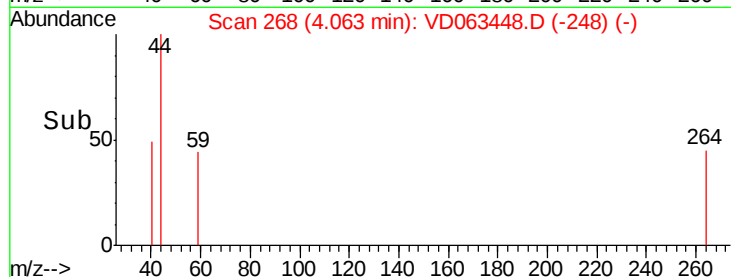
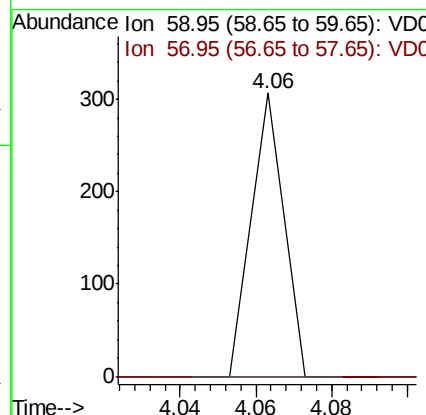
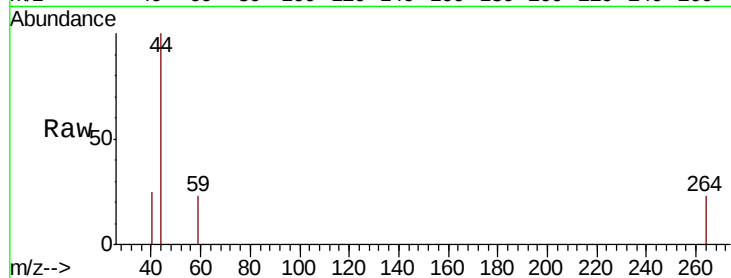




#11
Tert butyl alcohol
Concen: 2.922 ug/l
RT: 4.06 min Scan# 268
Delta R.T. -0.00 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

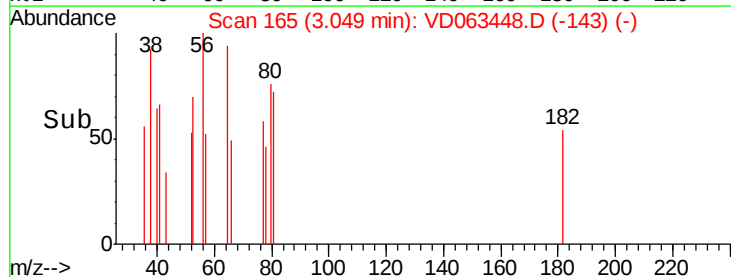
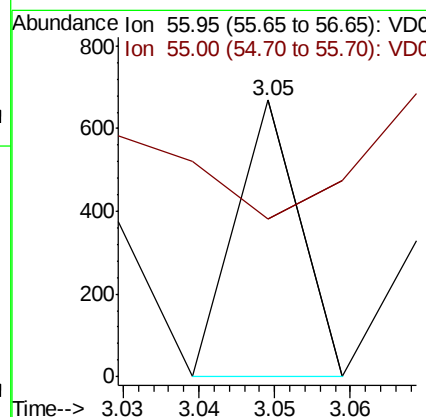
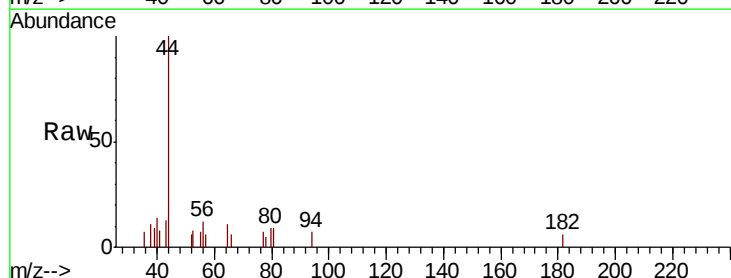
Instrument :
MSVOA_D
ClientSampleId :
SP-8

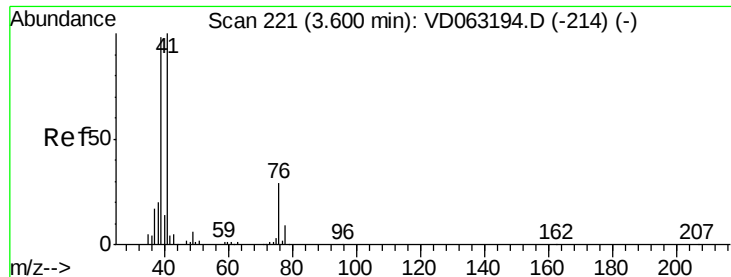
Tgt Ion: 59 Resp: 181
Ion Ratio Lower Upper
59 100
57 0.0 9.6 14.4#



#13
Acrolein
Concen: 6.626 ug/l
RT: 3.05 min Scan# 165
Delta R.T. 0.02 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

Tgt Ion: 56 Resp: 395
Ion Ratio Lower Upper
56 100
55 57.0 55.3 82.9





#14

Allyl chloride

Concen: 1.118 ug/l

RT: 3.63 min Scan# 224

Delta R.T. 0.03 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

Instrument :

MSVOA_D

ClientSampleId :

SP-8

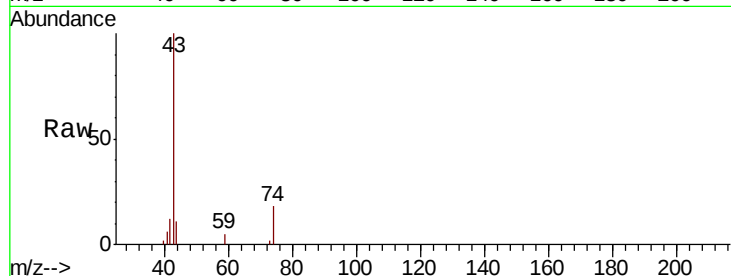
Tgt Ion: 41 Resp: 1757

Ion Ratio Lower Upper

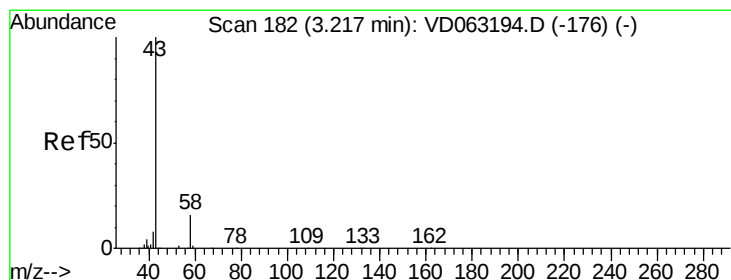
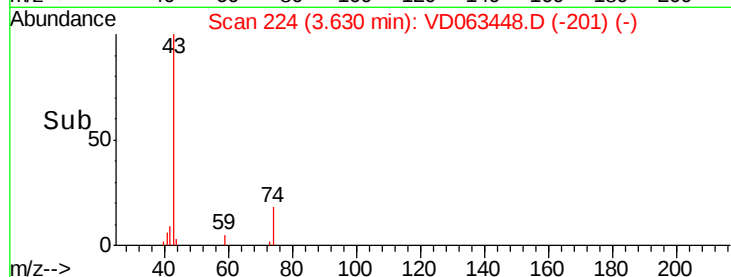
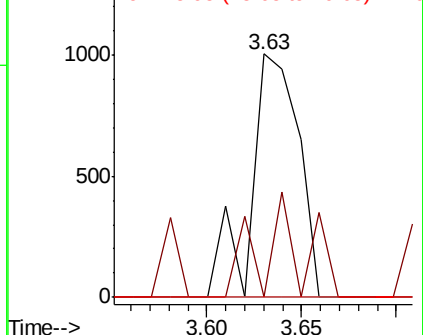
41 100

39 0.0 78.6 117.8#

76 0.0 24.5 36.7#



Abundance Ion 41.05 (40.75 to 41.75): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 75.95 (75.65 to 76.65): VDC



#16

Acetone

Concen: 88.872 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063448.D

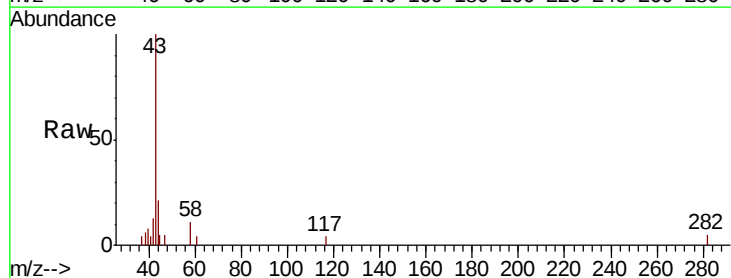
Acq: 8 Aug 2019 19:41

Tgt Ion: 43 Resp: 24439

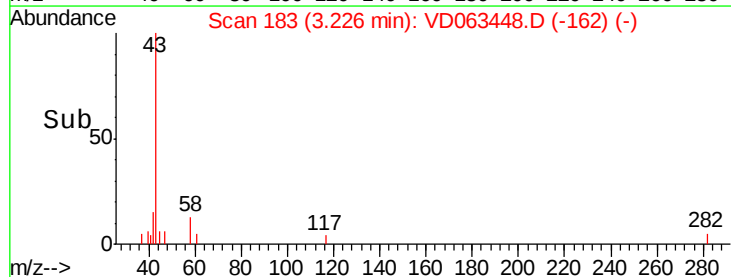
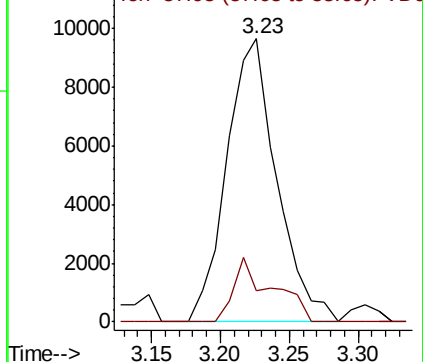
Ion Ratio Lower Upper

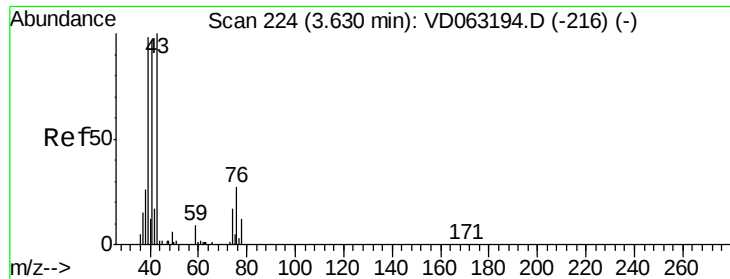
43 100

58 11.2 13.0 19.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

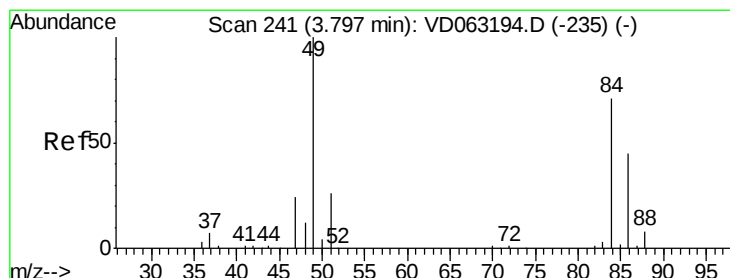
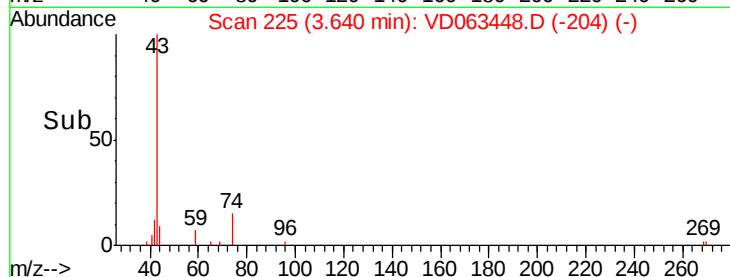
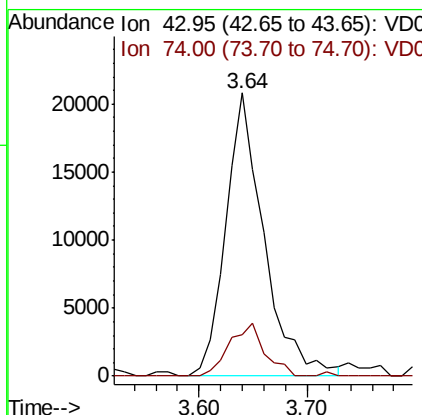
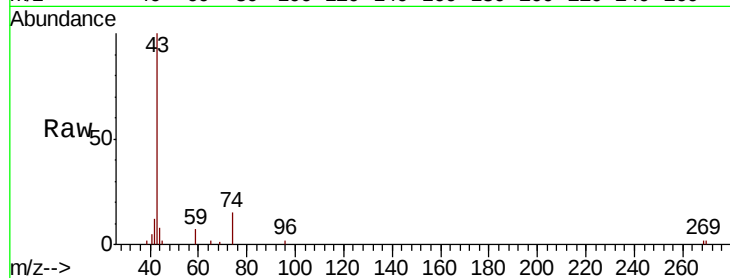




#18
Methyl Acetate
Concen: 96.897 ug/l
RT: 3.64 min Scan# 225
Delta R.T. 0.01 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

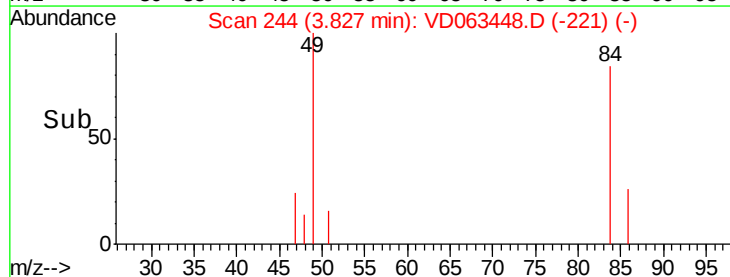
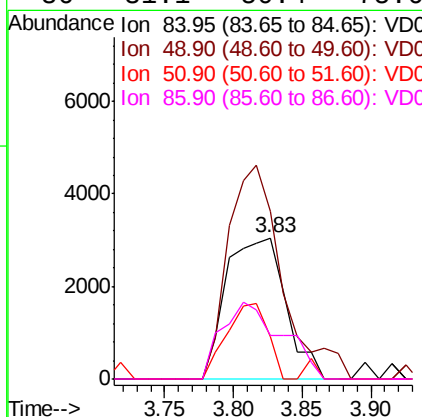
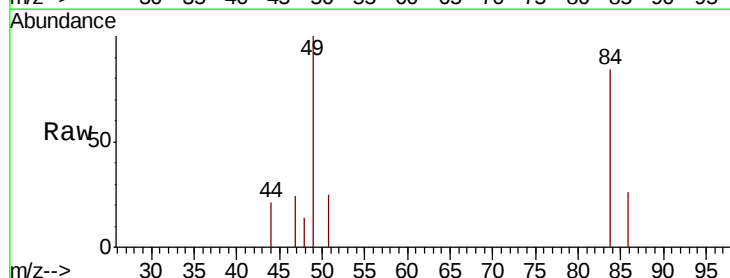
Instrument :
MSVOA_D
ClientSampleId :
SP-8

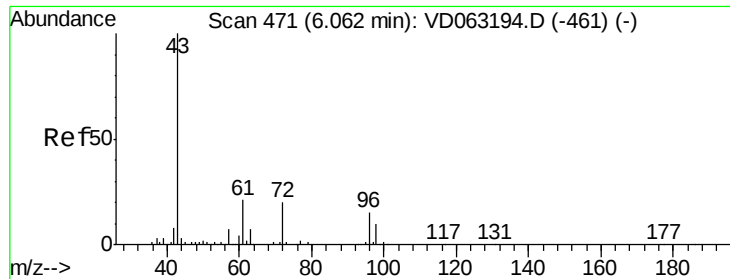
Tgt Ion: 43 Resp: 51182
Ion Ratio Lower Upper
43 100
74 14.8 13.8 20.8



#20
Methylene Chloride
Concen: 8.206 ug/l
RT: 3.83 min Scan# 244
Delta R.T. 0.03 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

Tgt Ion: 84 Resp: 9121
Ion Ratio Lower Upper
84 100
49 118.7 112.5 168.7
51 29.7 29.6 44.4
86 31.1 50.4 75.6#





#25

2-Butanone

Concen: 19.759 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

Instrument :

MSVOA_D

ClientSampleId :

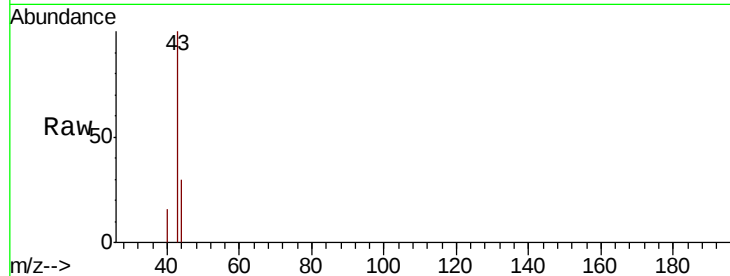
SP-8

Tgt Ion: 43 Resp: 5453

Ion Ratio Lower Upper

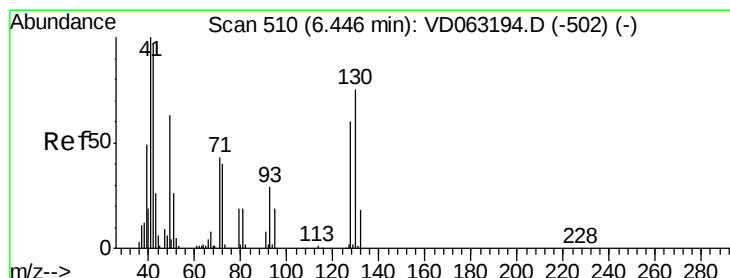
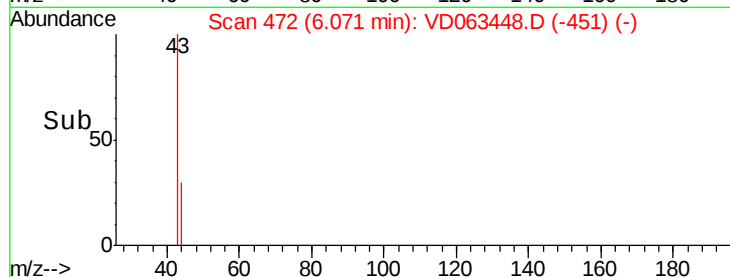
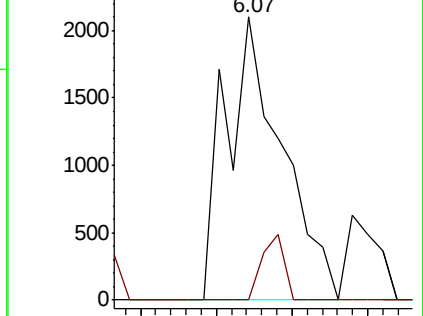
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 60.646 ug/l

RT: 6.47 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

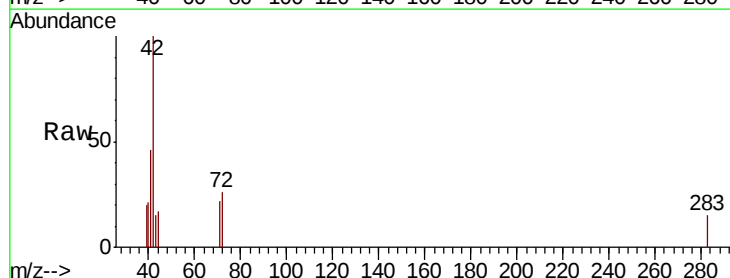
Tgt Ion: 42 Resp: 7924

Ion Ratio Lower Upper

42 100

72 15.4 33.4 50.2#

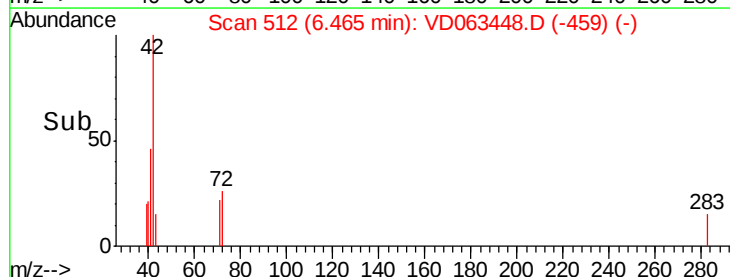
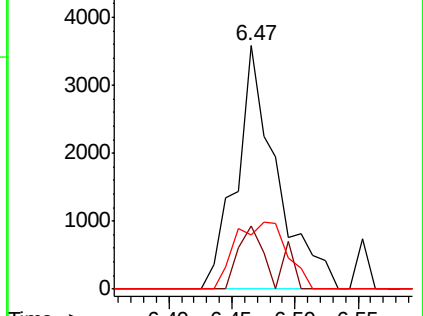
71 35.3 35.7 53.5#

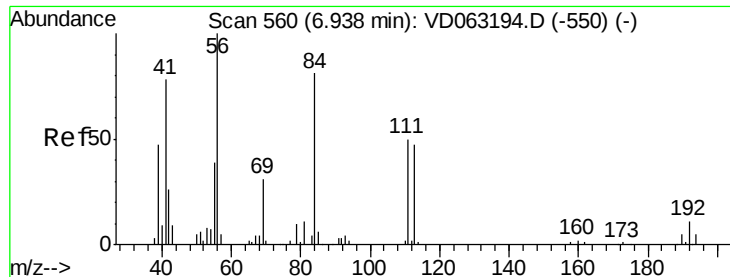


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

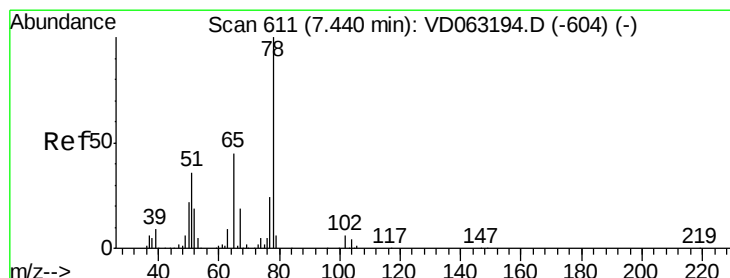
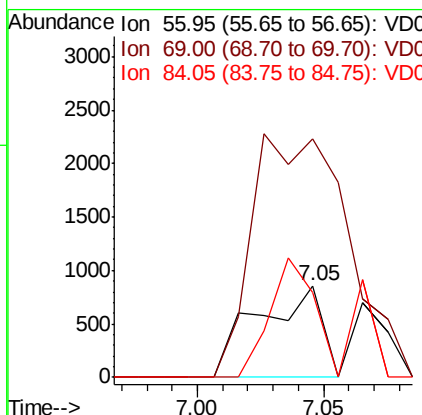
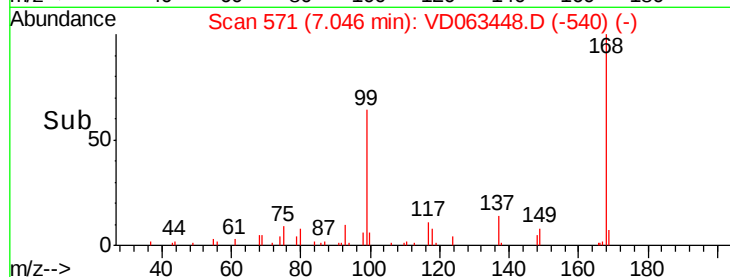
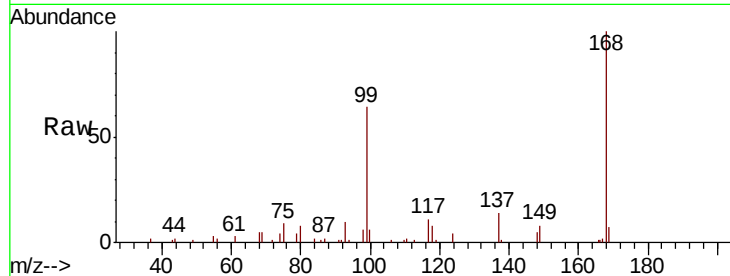




#31
Cyclohexane
Concen: 1.207 ug/l
RT: 7.05 min Scan# 571
Delta R.T. 0.11 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

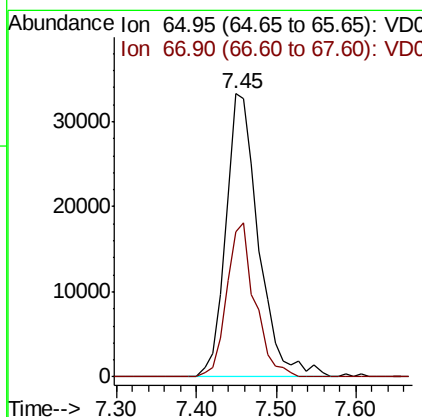
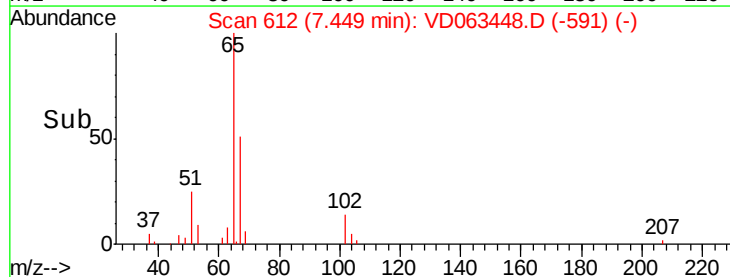
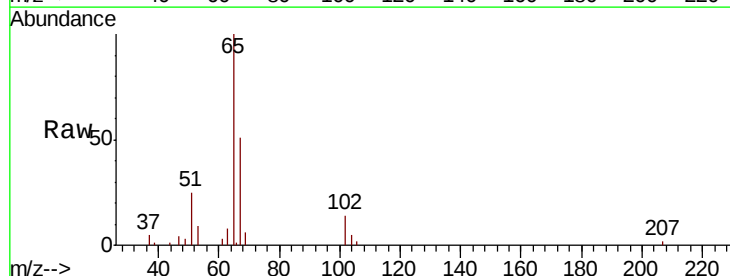
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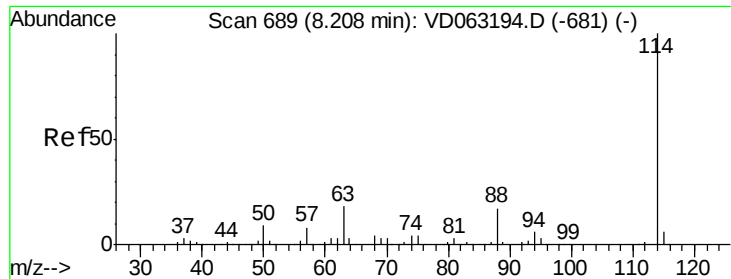
Tgt Ion: 56 Resp: 1518
Ion Ratio Lower Upper
56 100
69 259.4 24.5 36.7#
84 91.9 64.9 97.3



#33
1,2-Dichloroethane-d4
Concen: 67.490 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

Tgt Ion: 65 Resp: 95253
Ion Ratio Lower Upper
65 100
67 51.2 0.0 85.8

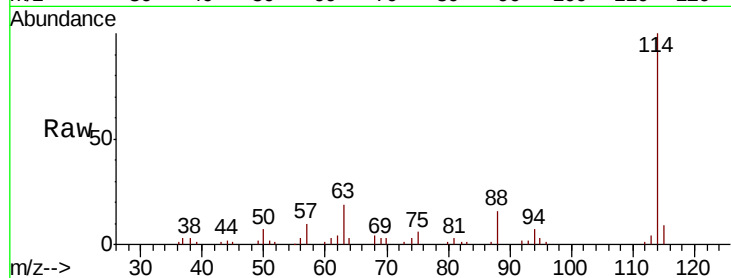




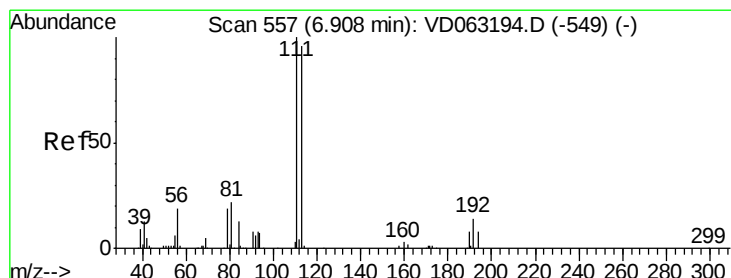
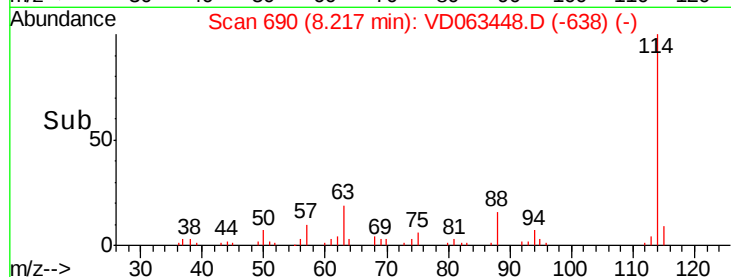
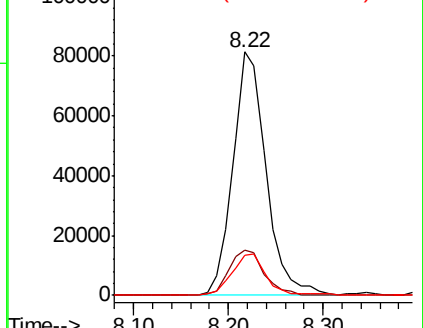
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063448.D
 Acq: 8 Aug 2019 19:41

Instrument :
 MSVOA_D
 ClientSampled :
 SP-8

Tgt Ion:114 Resp: 197230
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 35.2
 88 16.4 0.0 34.6

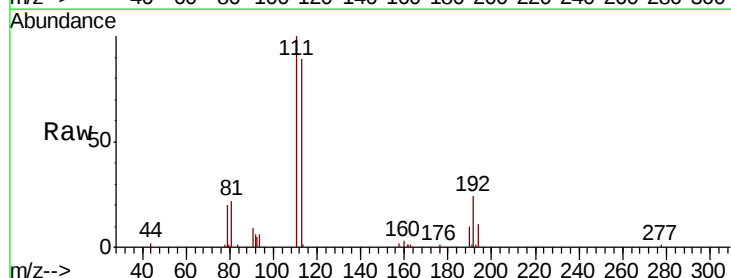


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

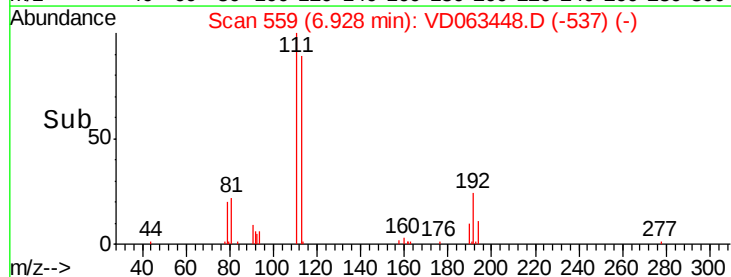
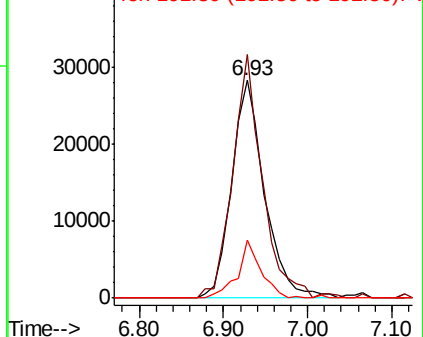


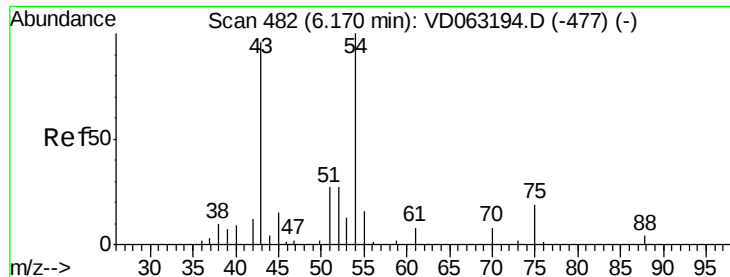
#35
 Dibromofluoromethane
 Concen: 45.550 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063448.D
 Acq: 8 Aug 2019 19:41

Tgt Ion:113 Resp: 76702
 Ion Ratio Lower Upper
 113 100
 111 111.9 83.2 124.8
 192 26.6 11.8 17.8#



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

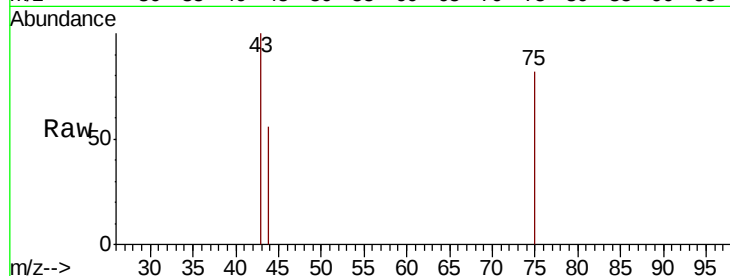




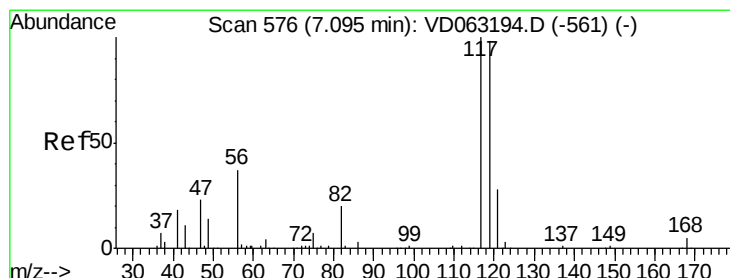
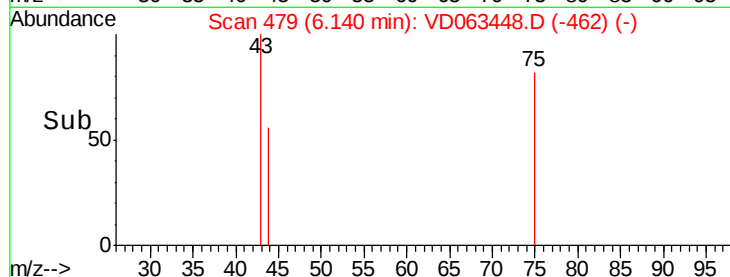
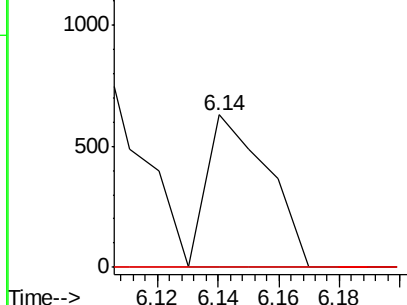
#37
Ethyl Acetate
Concen: 1.082 ug/l
RT: 6.14 min Scan# 479
Delta R.T. -0.03 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

Instrument :
MSVOA_D
ClientSampled :
SP-8

Tgt Ion: 43 Resp: 875
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 0.0 5.1 7.7#

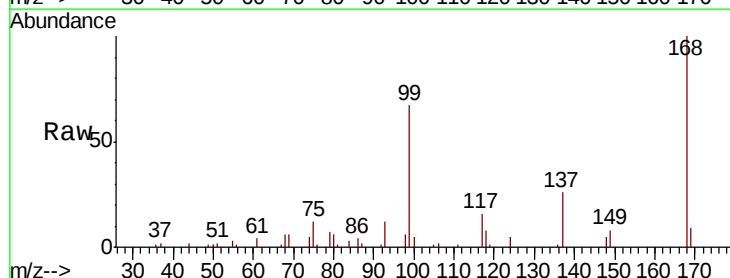


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

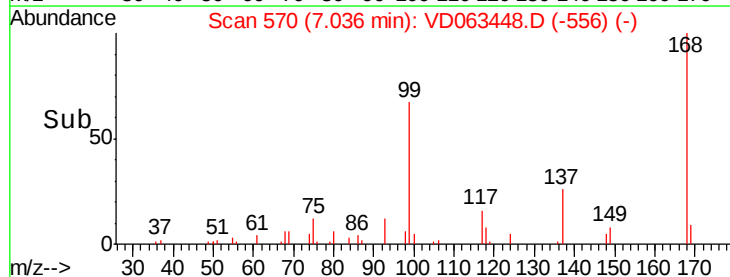
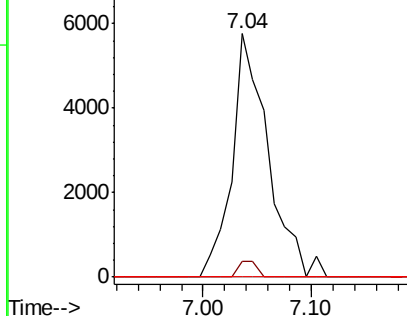


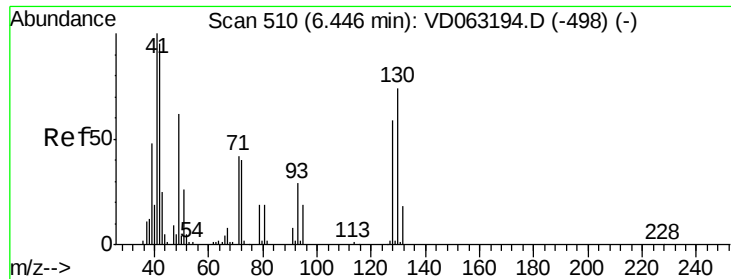
#38
Carbon Tetrachloride
Concen: 4.932 ug/l
RT: 7.04 min Scan# 570
Delta R.T. -0.06 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

Tgt Ion: 117 Resp: 13365
Ion Ratio Lower Upper
117 100
119 6.3 78.2 117.2#
121 0.0 22.1 33.1#



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





#41

Methacrylonitrile

Concen: 5.232 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.01 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

Instrument :

MSVOA_D

ClientSampleId :

SP-8

Tgt Ion: 41 Resp: 5061

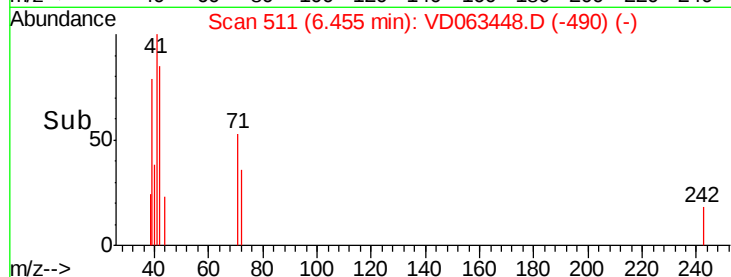
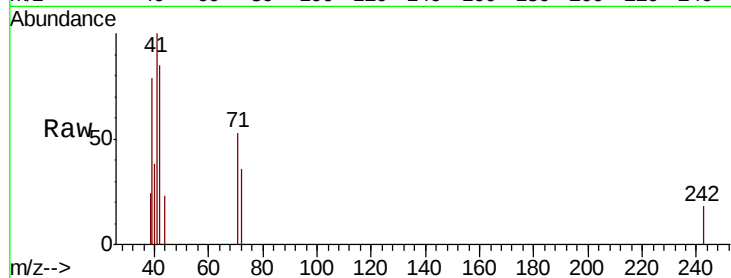
Ion Ratio Lower Upper

41 100

39 78.7 38.4 57.6#

67 0.0 6.7 10.1#

52 0.0 4.3 6.5#

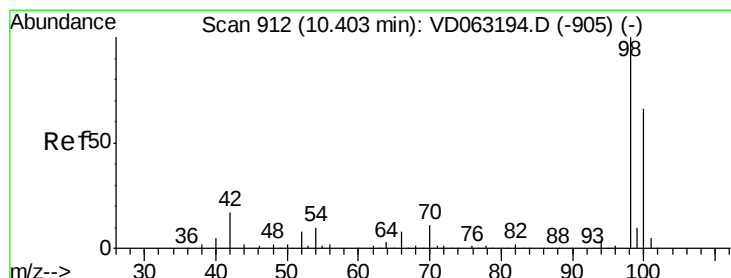
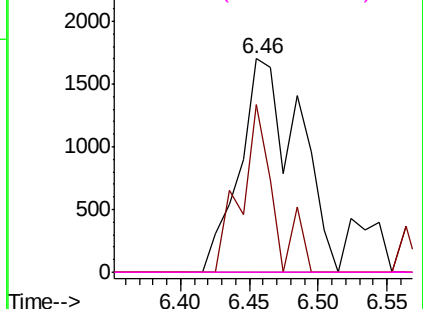


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#50

Toluene-d8

Concen: 33.814 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.01 min

Lab File: VD063448.D

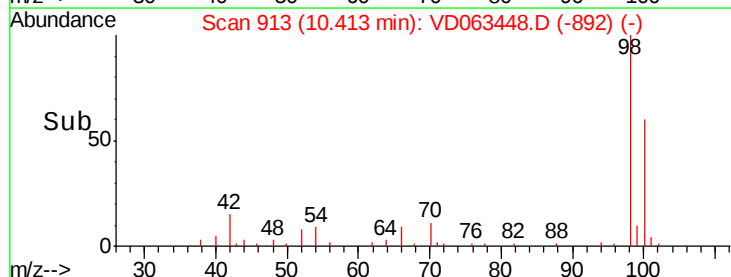
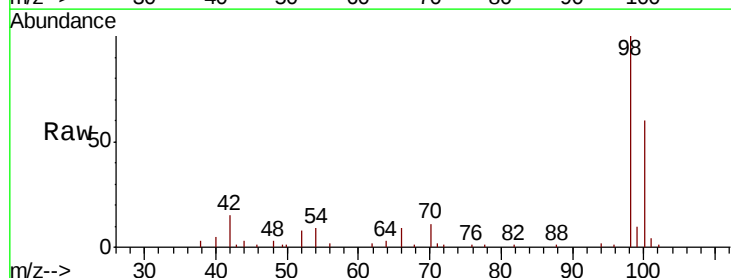
Acq: 8 Aug 2019 19:41

Tgt Ion: 98 Resp: 127433

Ion Ratio Lower Upper

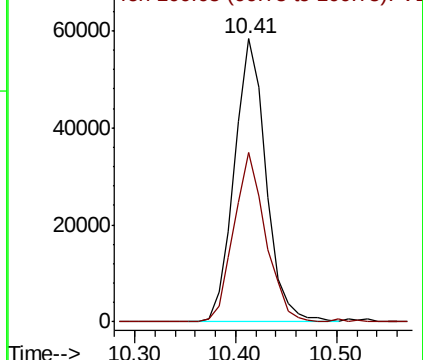
98 100

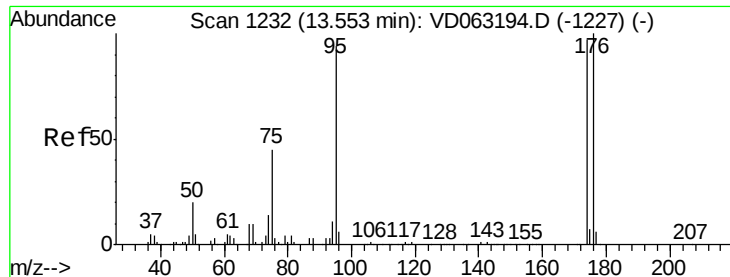
100 59.7 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

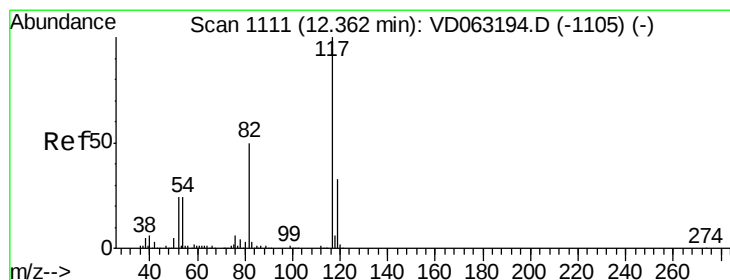
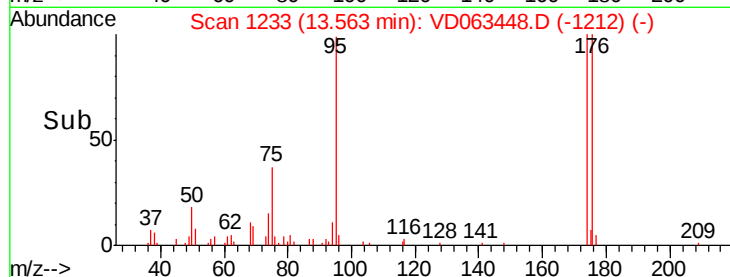
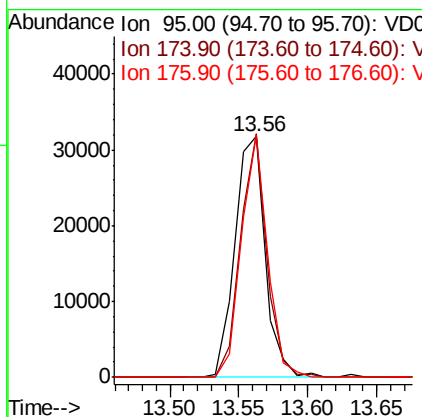
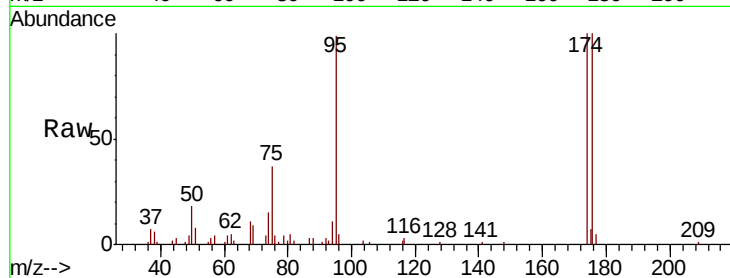




#62
4-Bromofluorobenzene
Concen: 28.442 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

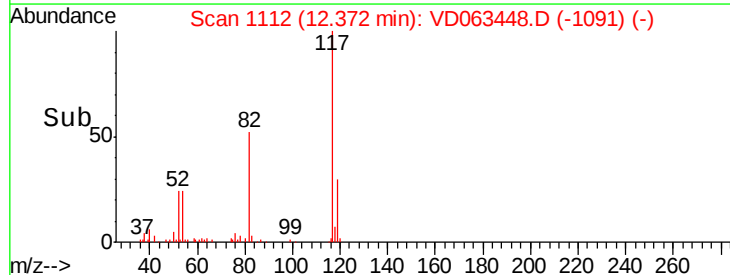
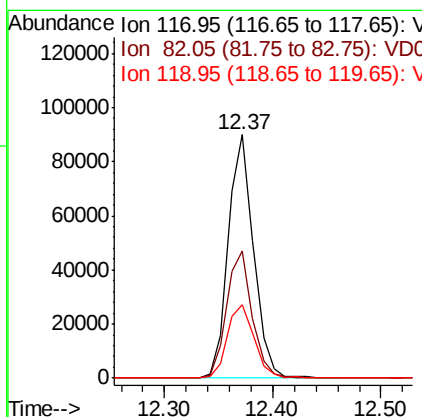
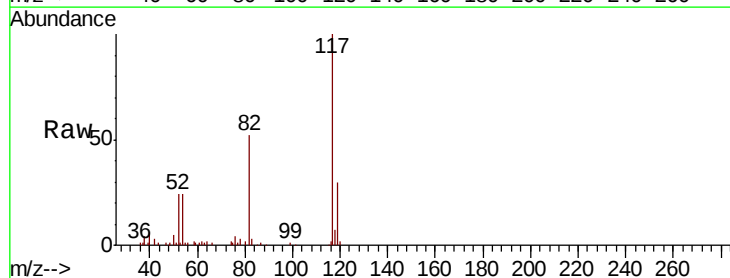
Instrument :
MSVOA_D
ClientSampleId :
SP-8

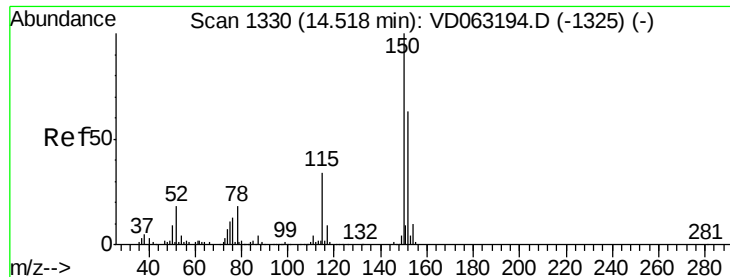
Tgt Ion: 95 Resp: 48844
Ion Ratio Lower Upper
95 100
174 101.2 0.0 205.4
176 100.8 0.0 211.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063448.D
Acq: 8 Aug 2019 19:41

Tgt Ion: 117 Resp: 146318
Ion Ratio Lower Upper
117 100
82 52.0 40.1 60.1
119 30.1 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

Instrument :

MSVOA_D

ClientSampled :

SP-8

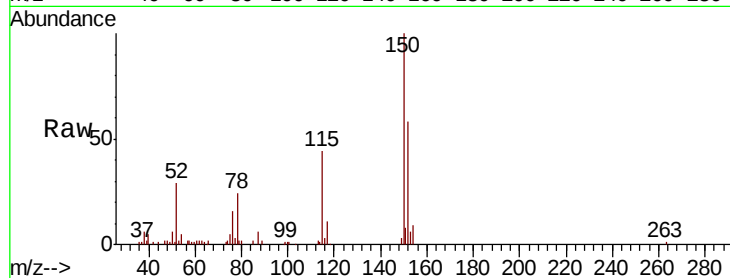
Tgt Ion:152 Resp: 60667

Ion Ratio Lower Upper

152 100

115 75.0 27.5 82.4

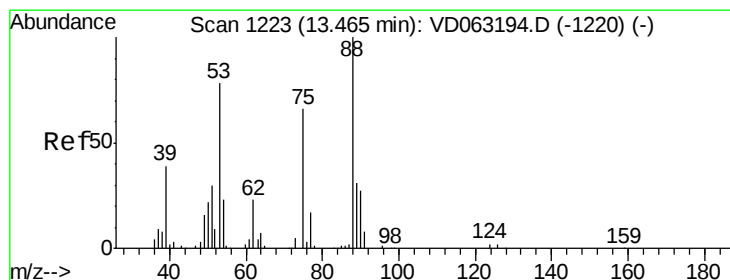
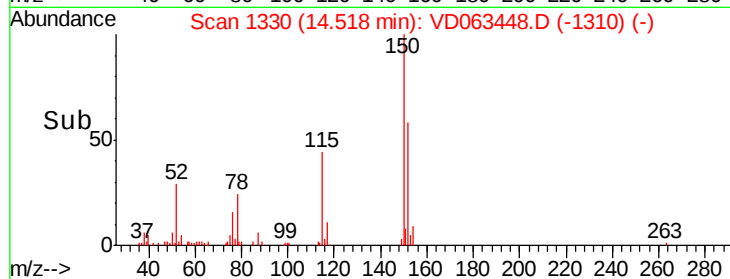
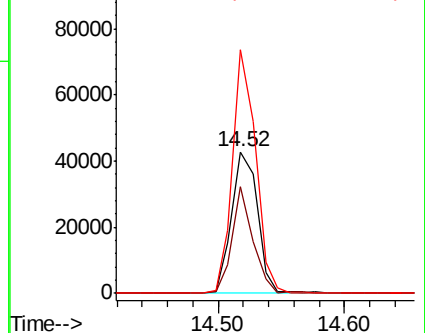
150 171.6 0.0 320.6



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: 100.098 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063448.D

Acq: 8 Aug 2019 19:41

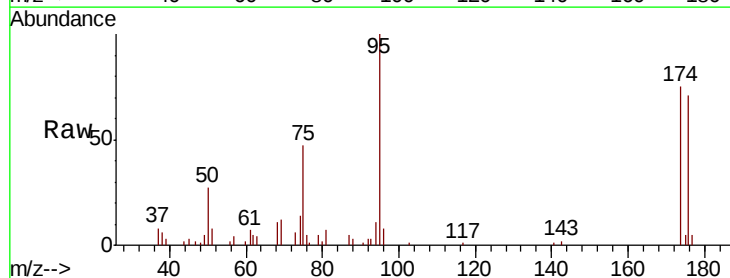
Tgt Ion: 75 Resp: 20254

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

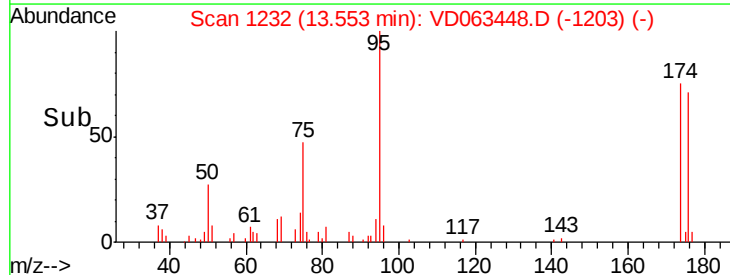
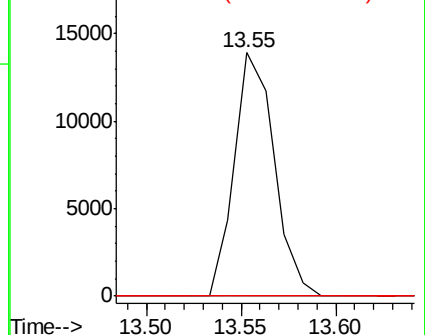
89 0.0 37.4 56.0#

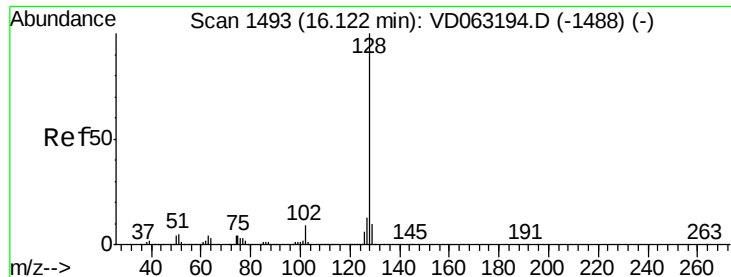


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.282 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD063448.D

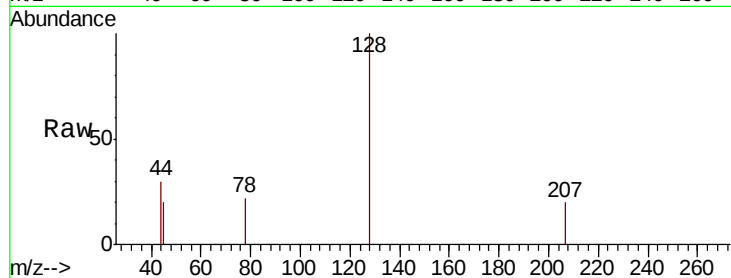
Acq: 8 Aug 2019 19:41

Instrument :

MSVOA_D

ClientSampleId :

SP-8



Tgt Ion:128 Resp: 2406

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 0.0 7.8 11.8#

