

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042619\
 Data File : VD062057.D
 Acq On : 26 Apr 2019 13:02
 Operator : VA/AP
 Sample : K2198-07RE
 Misc : 6.16g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OK-01-042519RE

Quant Time: Apr 26 23:05:03 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 23 14:52:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	398777	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.24	114	648816	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	478878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	155764	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	207091	66.35	ug/l	0.02
Spiked Amount			Recovery	=	132.70%	
35) Dibromofluoromethane	6.94	113	299475	66.74	ug/l	0.00
Spiked Amount			Recovery	=	133.48%	
50) Toluene-d8	10.43	98	622299	58.28	ug/l	0.00
Spiked Amount			Recovery	=	116.56%	
62) 4-Bromofluorobenzene	13.57	95	205190	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	

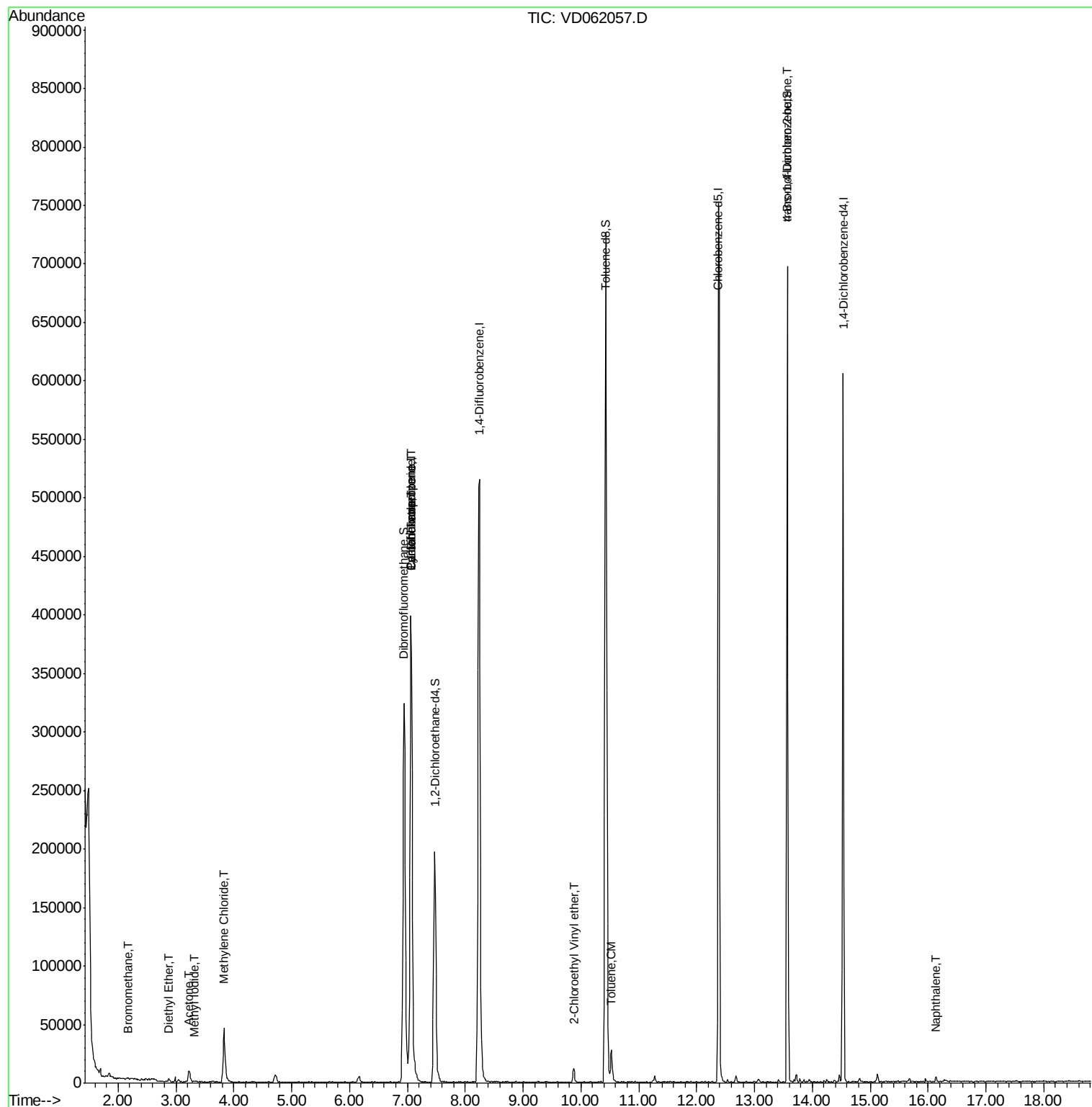
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	1652	1.461	ug/l #	12
8) Diethyl Ether	2.88	74	1436	1.292	ug/l	59
10) Methyl Iodide	3.33	142	433	5.495	ug/l #	37
16) Acetone	3.23	43	20283	27.218	ug/l	93
18) Methyl Acetate	3.66	43	263	Below Cal	#	53
20) Methylene Chloride	3.83	84	31610	5.900	ug/l	93
31) Cyclohexane	7.06	56	7382	1.588	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	29444	5.825	ug/l #	47
38) Carbon Tetrachloride	7.06	117	38584	6.024	ug/l #	15
52) Toluene	10.53	92	15995	2.005	ug/l	86
58) 2-Chloroethyl Vinyl ether	9.88	63	6573	4.765	ug/l #	86
81) trans-1,4-Dichloro-2-buten	13.57	75	76182	127.097	ug/l #	16
95) Naphthalene	16.14	128	3947	1.052	ug/l #	83

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
Quant Title : SW846 8260
QLast Update : Tue Apr 23 14:52:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

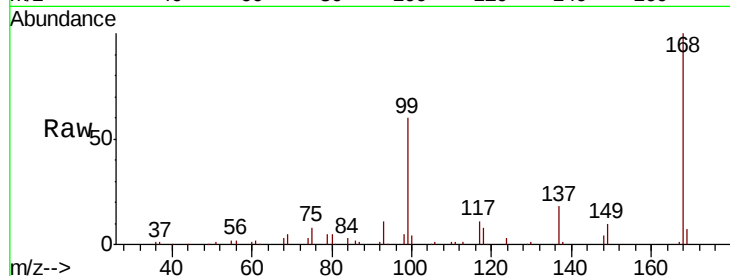
OK-01-042519RE

Tot Ion:168 Resp: 398777

Ion Ratio Lower Upper

168 100

99 60.0 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

150000

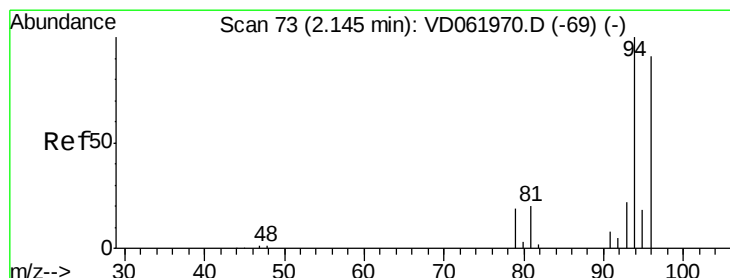
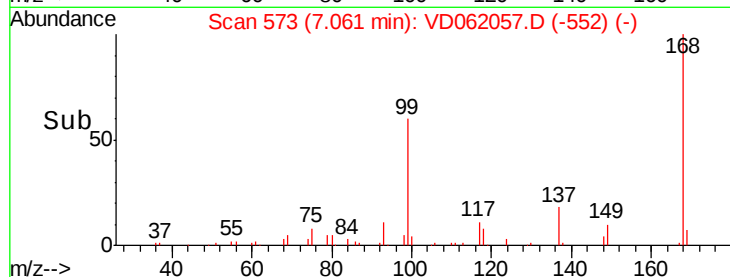
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#5

Bromomethane

Concen: 1.461 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.02 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

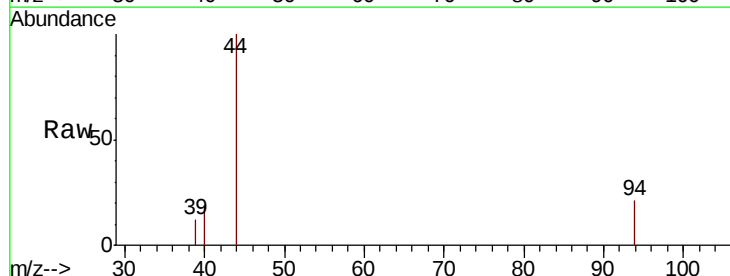
Tgt Ion: 94 Resp: 1652

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

800

600

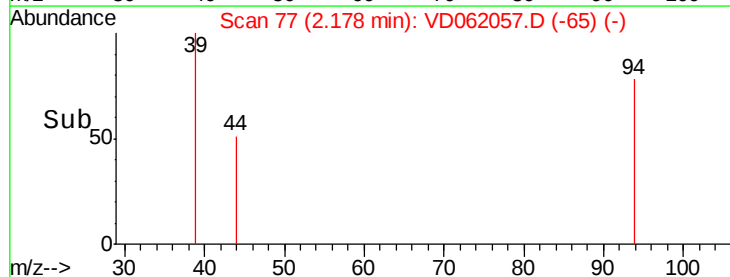
400

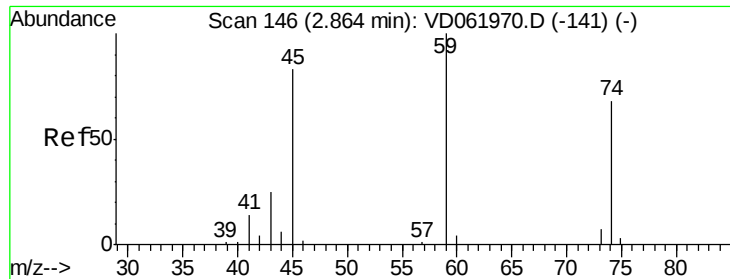
200

0

Time-->

2.10 2.15 2.20





#8

Diethyl Ether

Concen: 1.292 ug/l

RT: 2.88 min Scan# 148

Delta R.T. -0.00 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

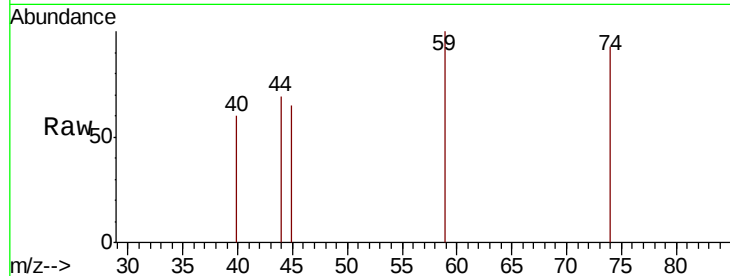
OK-01-042519RE

Tot Ion: 74 Resp: 1436

Ion Ratio Lower Upper

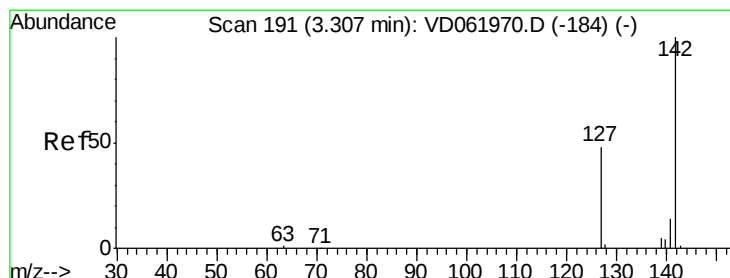
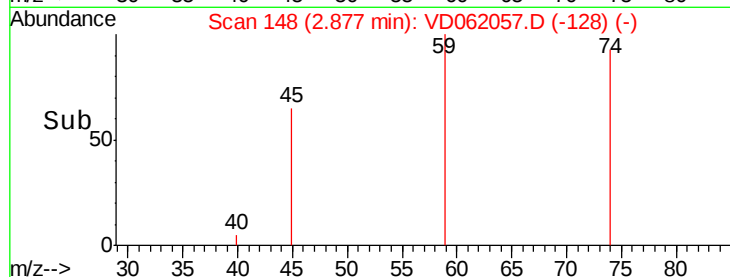
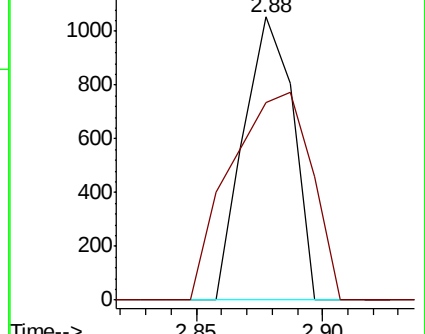
74 100

45 70.0 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#10

Methyl Iodide

Concen: 5.495 ug/l

RT: 3.33 min Scan# 194

Delta R.T. 0.01 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

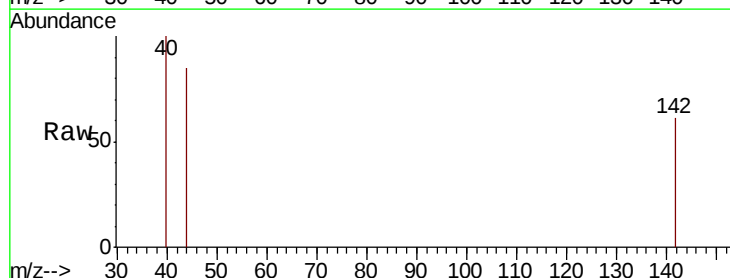
Tgt Ion: 142 Resp: 433

Ion Ratio Lower Upper

142 100

127 0.0 38.8 58.2#

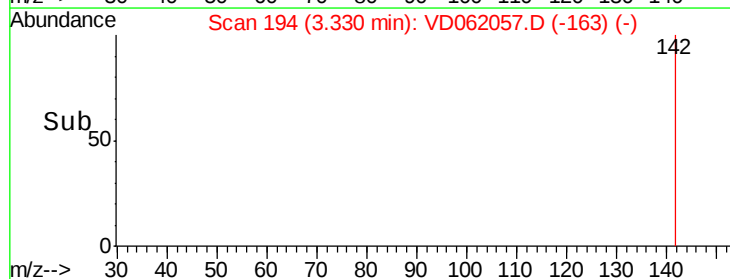
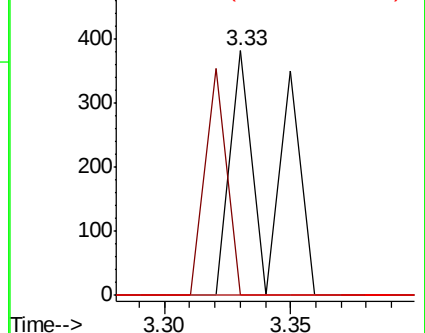
141 0.0 11.4 17.0#

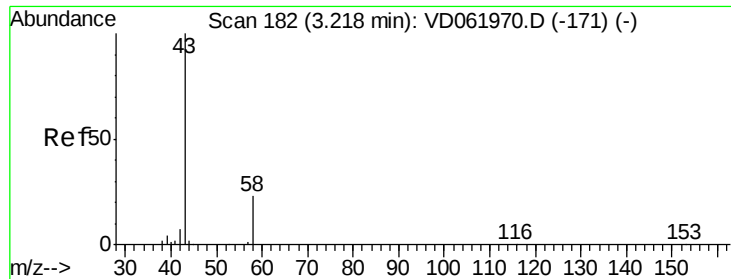


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#16

Acetone

Concen: 27.218 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

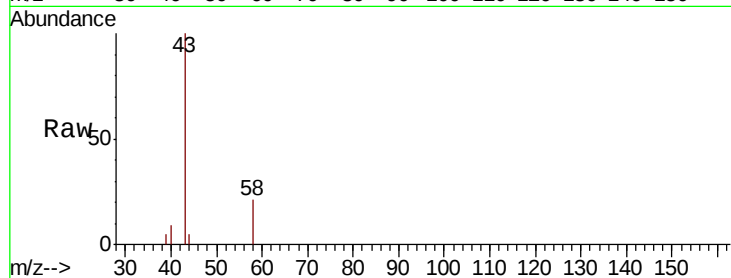
OK-01-042519RE

Tot Ion: 43 Resp: 20283

Ion Ratio Lower Upper

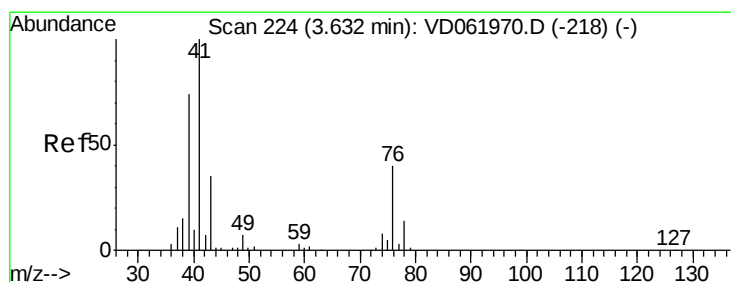
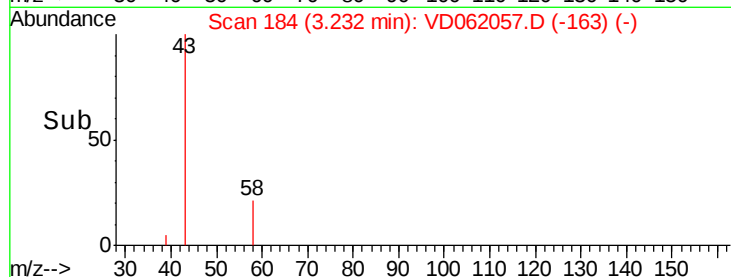
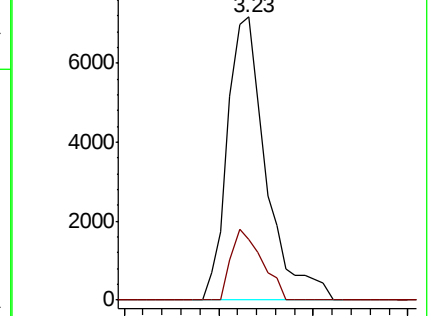
43 100

58 21.4 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: Below Cal

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD062057.D

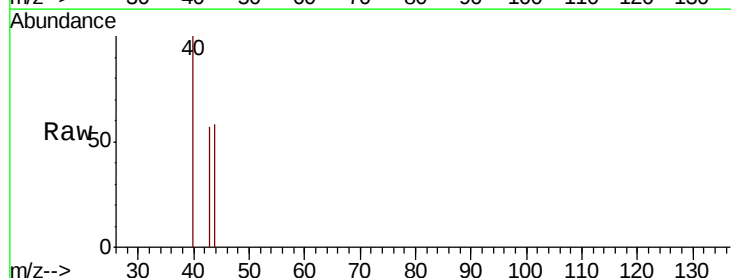
Acq: 26 Apr 2019 13:02

Tgt Ion: 43 Resp: 263

Ion Ratio Lower Upper

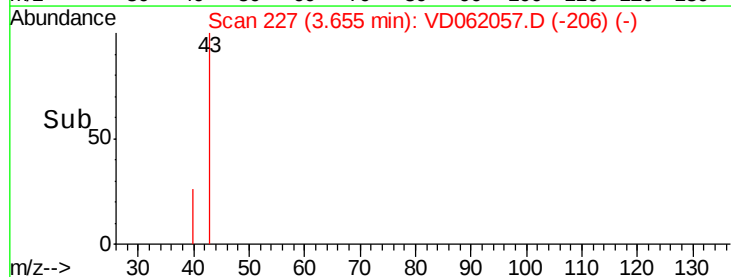
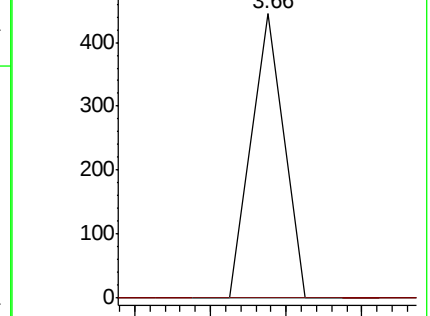
43 100

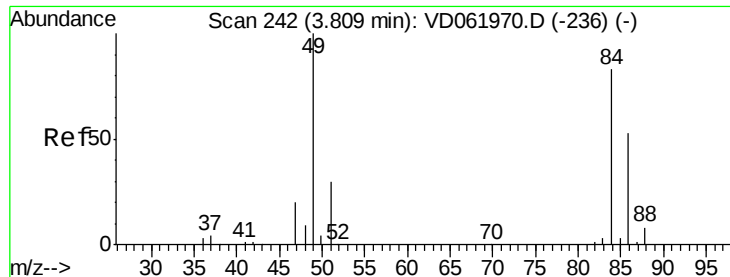
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

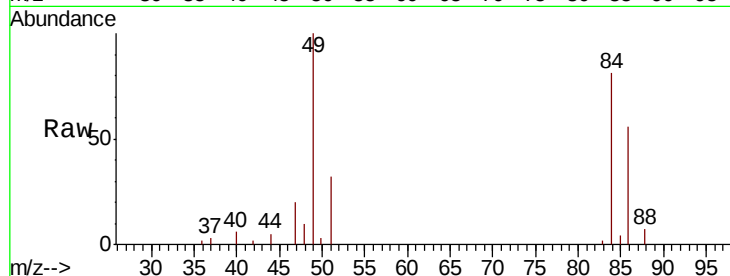




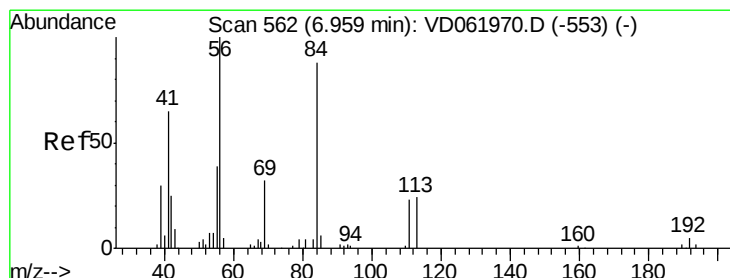
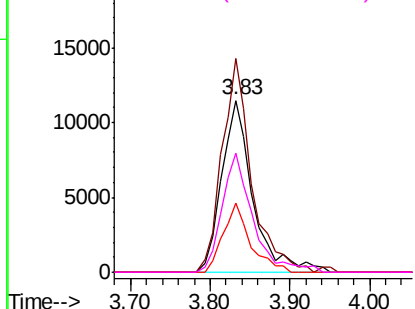
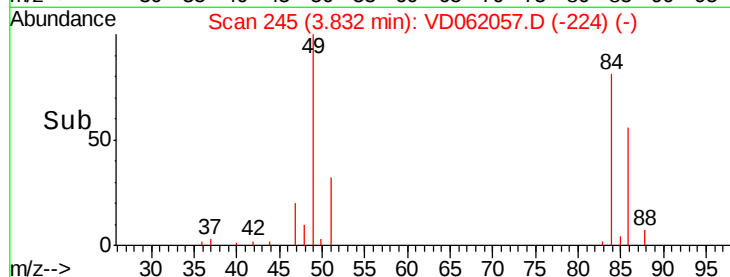
#20
Methylene Chloride
Concen: 5.900 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.01 min
Lab File: VD062057.D
Acq: 26 Apr 2019 13:02

Instrument :
MSVOA_D
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OK-01-042519RE

Tot Ion: 84 Resp: 31610
Ion Ratio Lower Upper
84 100
49 124.1 94.0 141.0
51 40.2 29.0 43.4
86 68.9 49.8 74.6

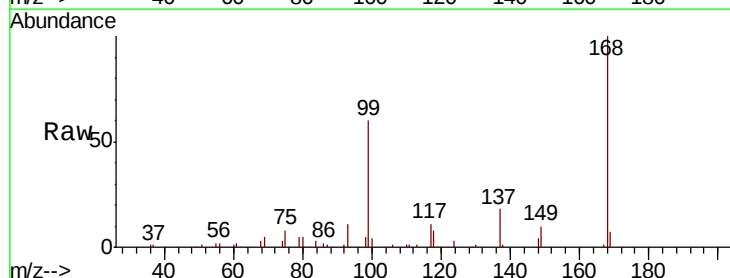


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

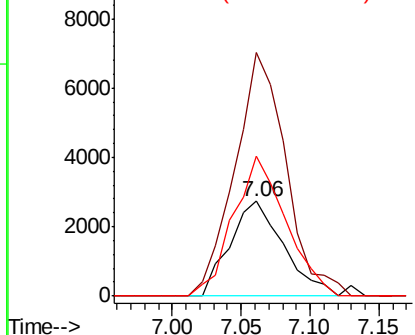
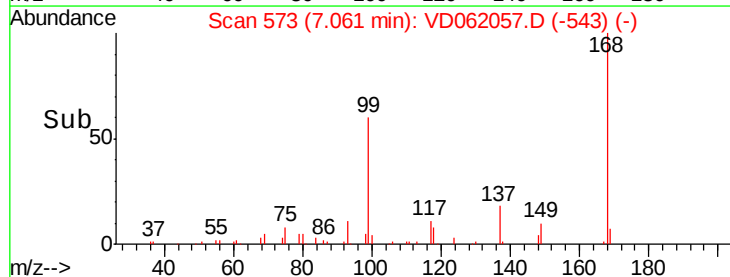


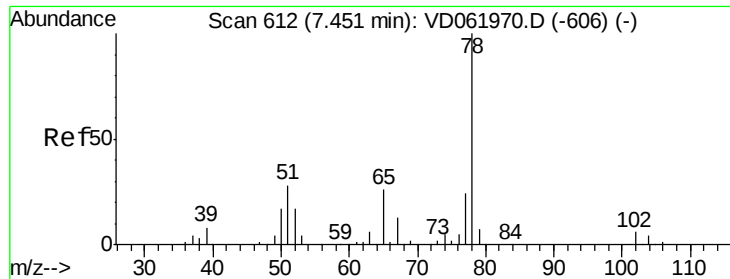
#31
Cyclohexane
Concen: 1.588 ug/l
RT: 7.06 min Scan# 573
Delta R.T. 0.10 min
Lab File: VD062057.D
Acq: 26 Apr 2019 13:02

Tgt Ion: 56 Resp: 7382
Ion Ratio Lower Upper
56 100
69 257.5 25.8 38.6#
84 148.4 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: 66.353 ug/l

RT: 7.47 min Scan# 615

Delta R.T. 0.02 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

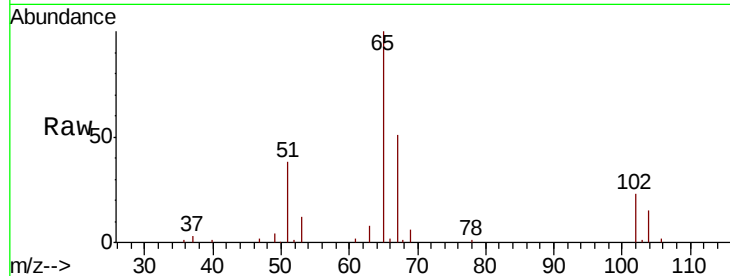
OK-01-042519RE

Tot Ion: 65 Resp: 207091

Ion Ratio Lower Upper

65 100

67 51.5 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.47

80000

60000

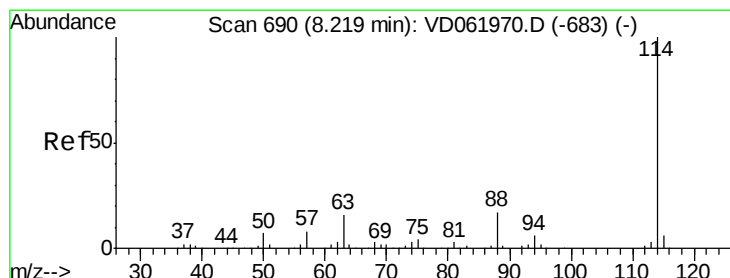
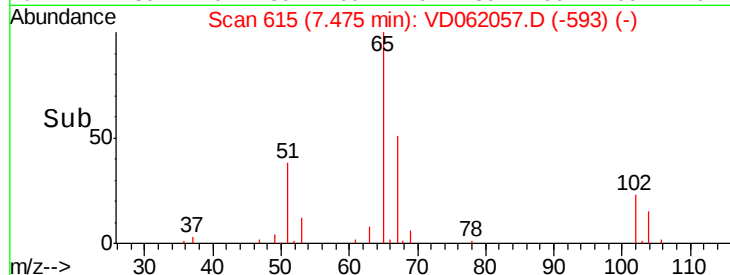
40000

20000

0

7.30 7.40 7.50 7.60 7.70

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.24 min Scan# 693

Delta R.T. 0.02 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

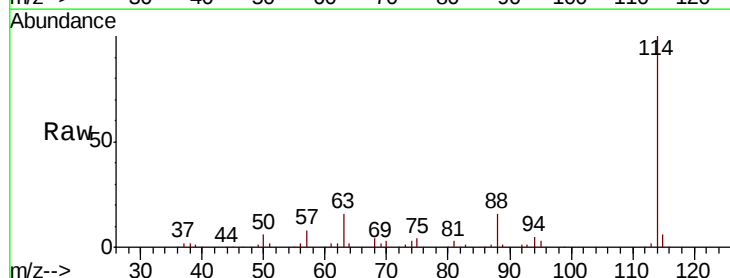
Tgt Ion: 114 Resp: 648816

Ion Ratio Lower Upper

114 100

63 16.3 0.0 32.4

88 16.0 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.24

300000

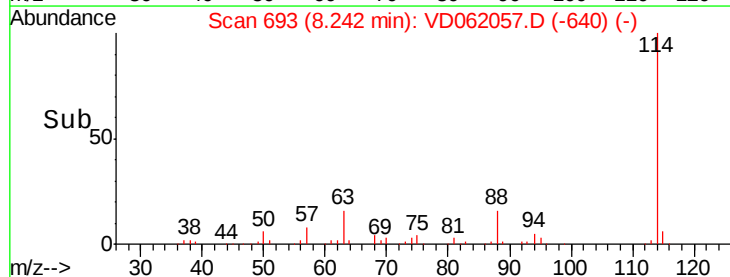
200000

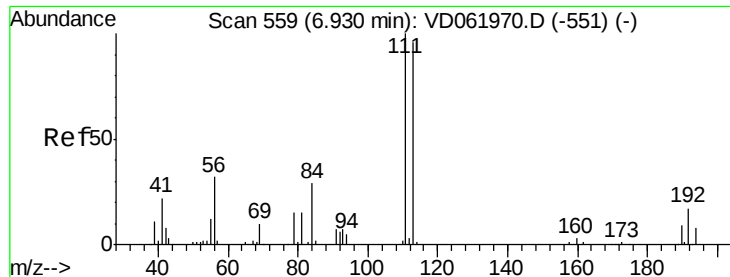
100000

0

8.20 8.40

Time-->





#35

Dibromofluoromethane

Concen: 66.740 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.01 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

OK-01-042519RE

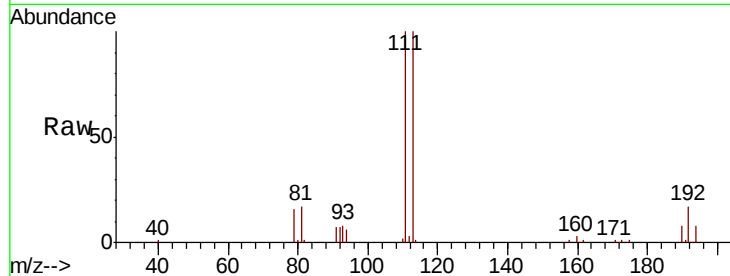
Tot Ion:113 Resp: 299475

Ion Ratio Lower Upper

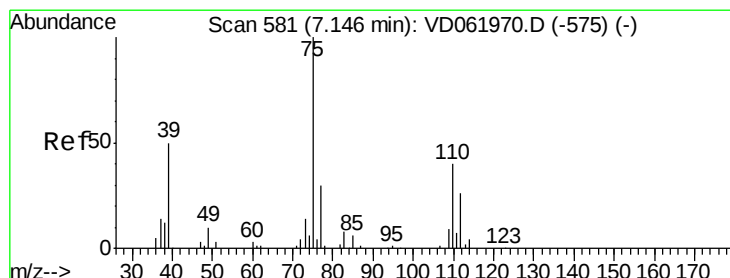
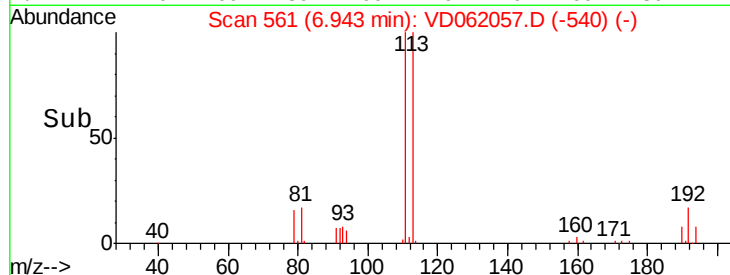
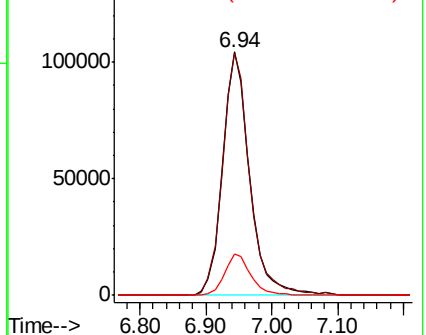
113 100

111 99.6 78.5 117.7

192 16.8 13.0 19.4



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



#36

1,1-Dichloropropene

Concen: 5.825 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.09 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

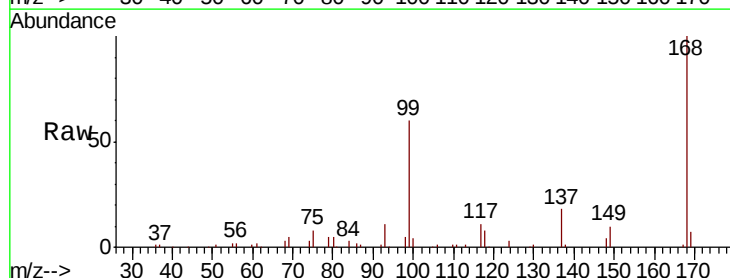
Tgt Ion: 75 Resp: 29444

Ion Ratio Lower Upper

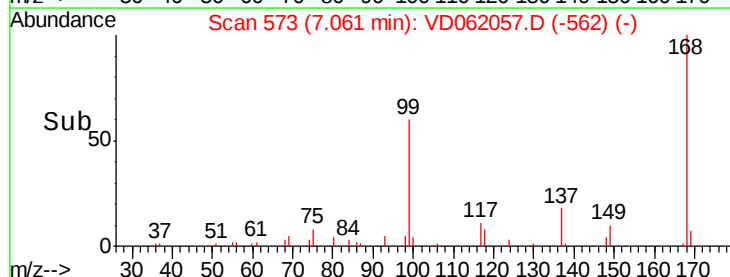
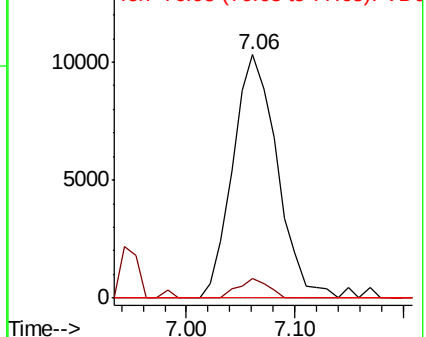
75 100

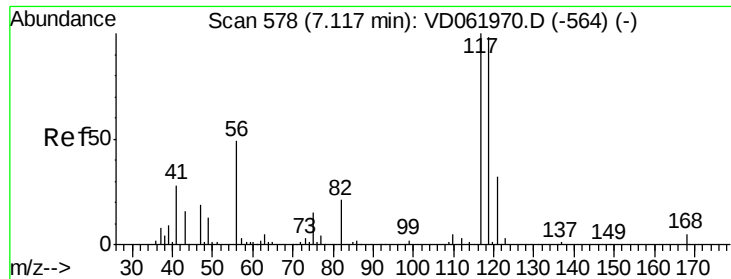
110 8.1 19.1 57.1#

77 0.0 25.6 38.4#



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

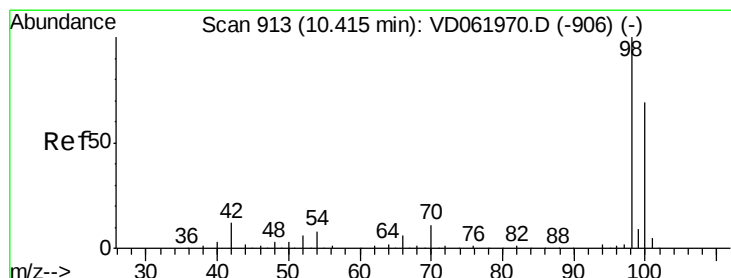
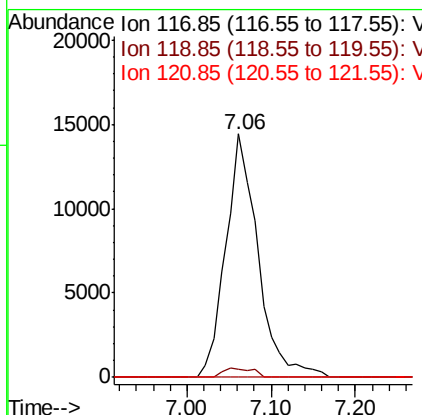
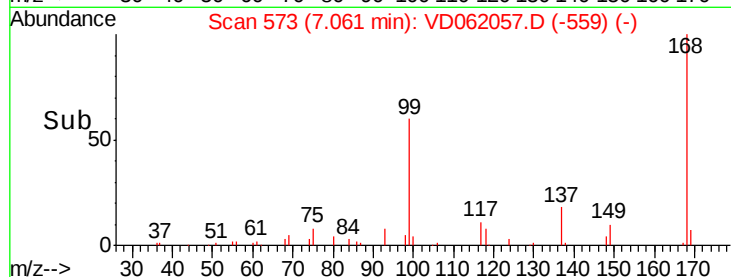
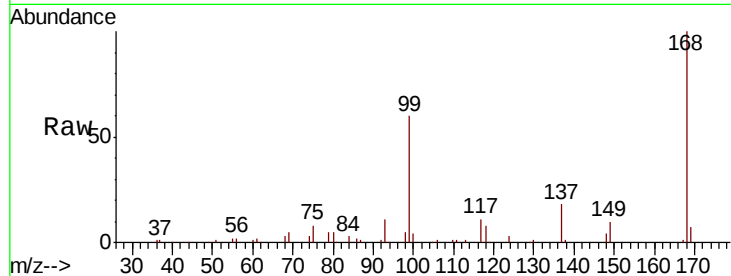




#38
Carbon Tetrachloride
Concen: 6.024 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.06 min
Lab File: VD062057.D
Acq: 26 Apr 2019 13:02

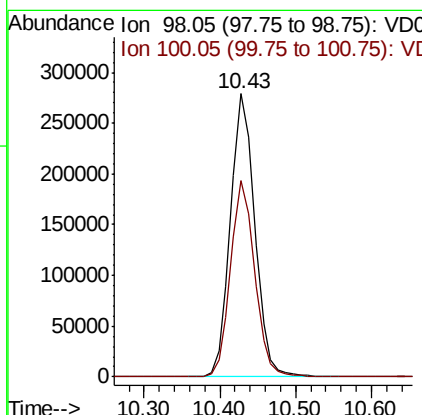
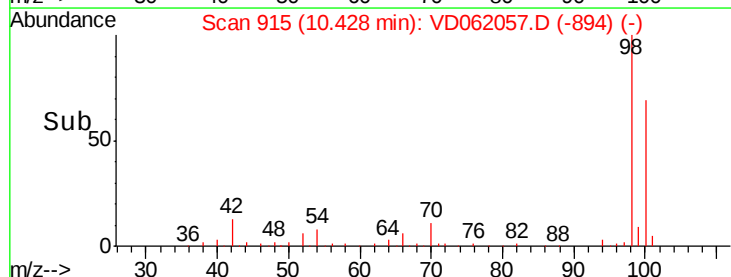
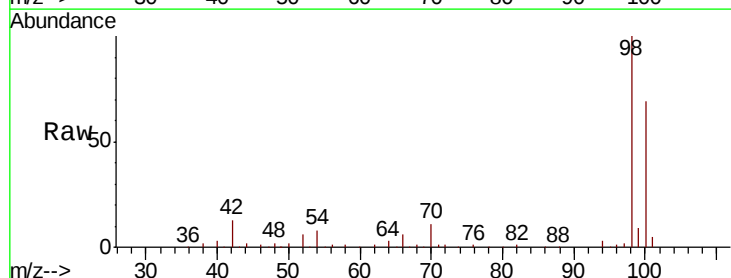
Instrument :
MSVOA_D
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OK-01-042519RE

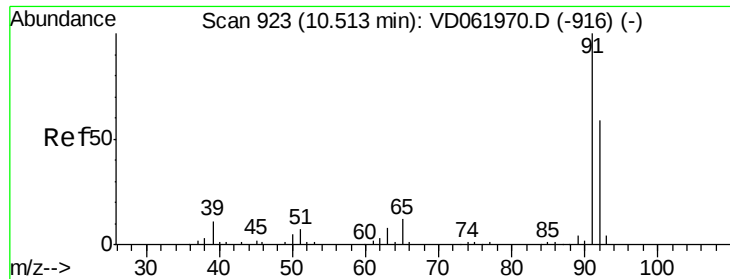
Tot Ion:117 Resp: 38584
Ion Ratio Lower Upper
117 100
119 3.1 75.8 113.8#
121 0.0 25.9 38.9#



#50
Toluene-d8
Concen: 58.283 ug/l
RT: 10.43 min Scan# 915
Delta R.T. 0.01 min
Lab File: VD062057.D
Acq: 26 Apr 2019 13:02

Tgt Ion: 98 Resp: 622299
Ion Ratio Lower Upper
98 100
100 69.3 53.8 80.8





#52

Toluene

Concen: 2.005 ug/l

RT: 10.53 min Scan# 925

Delta R.T. 0.01 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

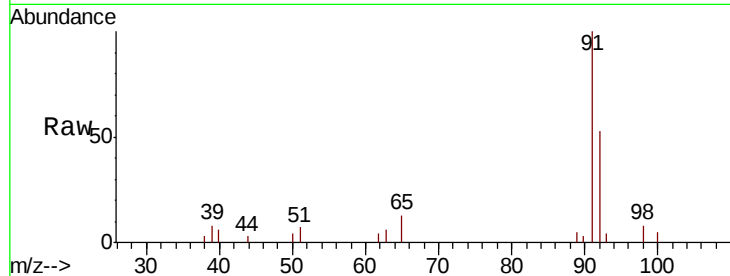
OK-01-042519RE

Tot Ion: 92 Resp: 15995

Ion Ratio Lower Upper

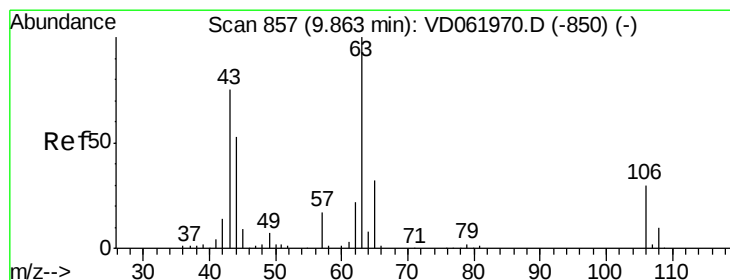
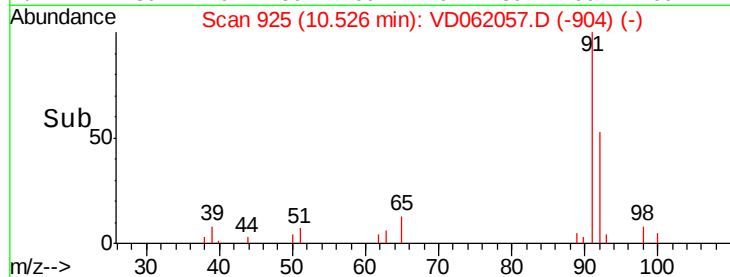
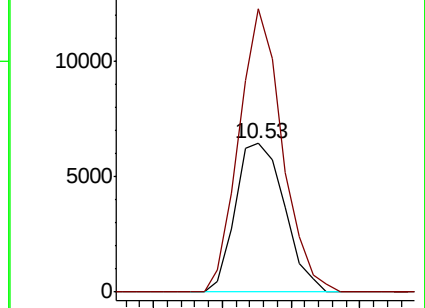
92 100

91 190.1 136.6 204.8



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: 4.765 ug/l

RT: 9.88 min Scan# 859

Delta R.T. 0.01 min

Lab File: VD062057.D

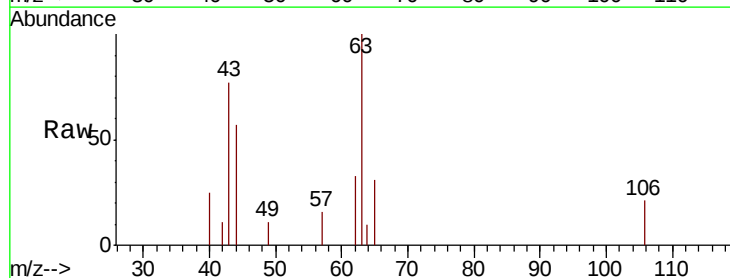
Acq: 26 Apr 2019 13:02

Tgt Ion: 63 Resp: 6573

Ion Ratio Lower Upper

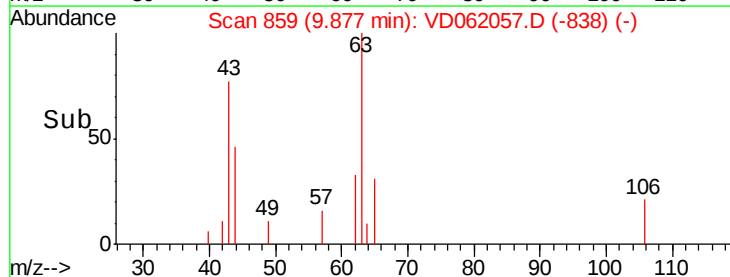
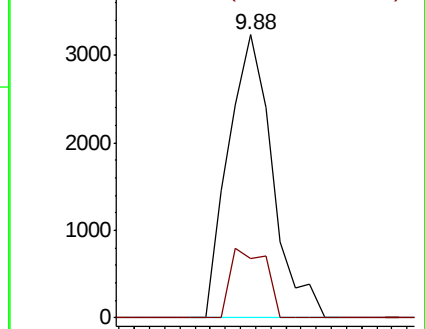
63 100

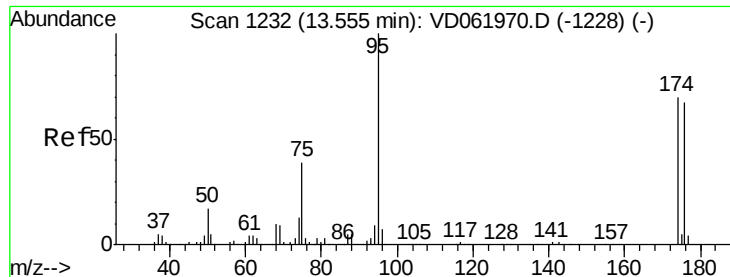
106 21.1 22.6 34.0#



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

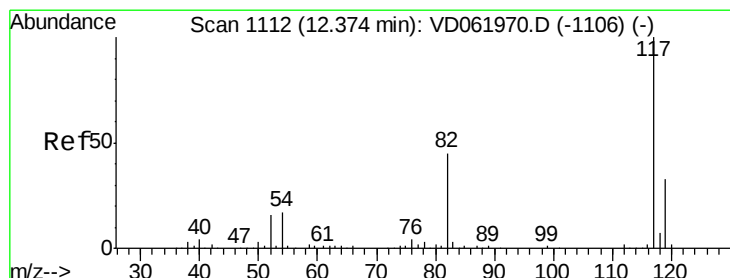
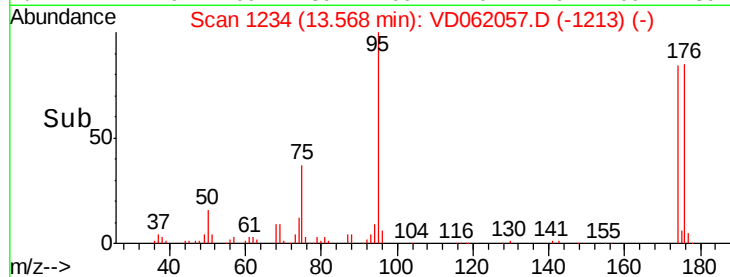
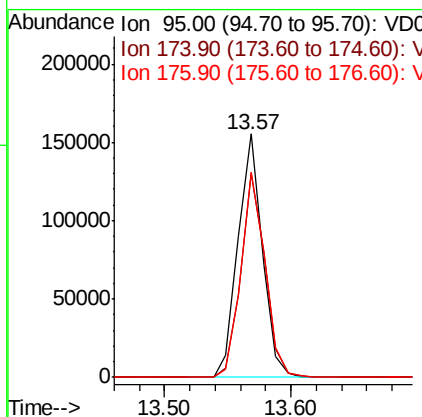
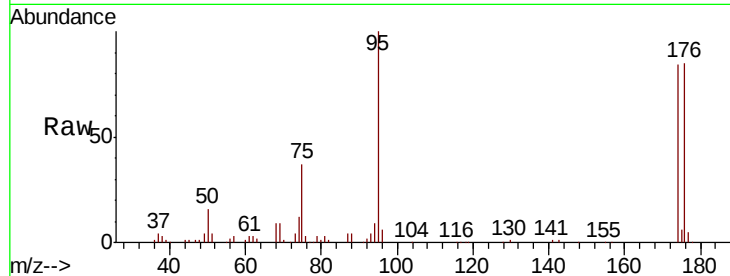




#62
4-Bromofluorobenzene
Concen: 47.913 ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.01 min
Lab File: VD062057.D
Acq: 26 Apr 2019 13:02

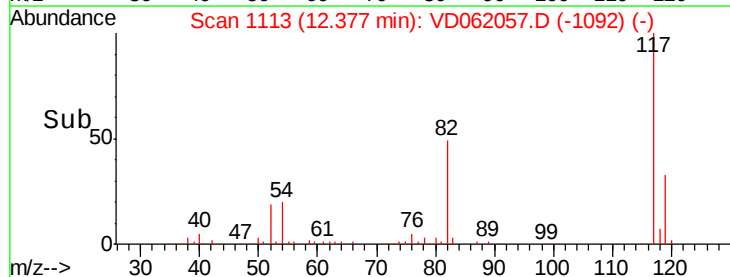
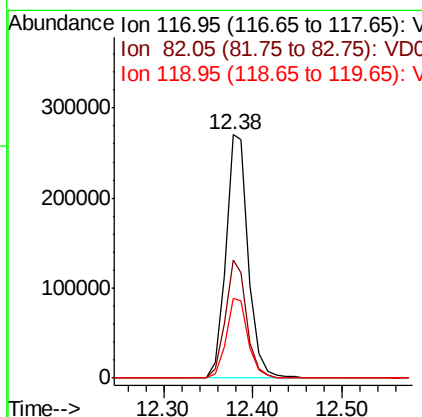
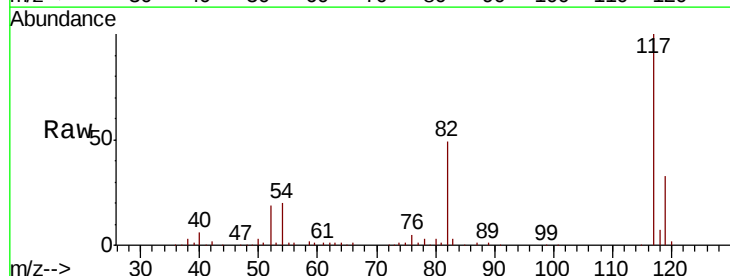
Instrument :
MSVOA_D
ClientSampleId :
OK-01-042519RE

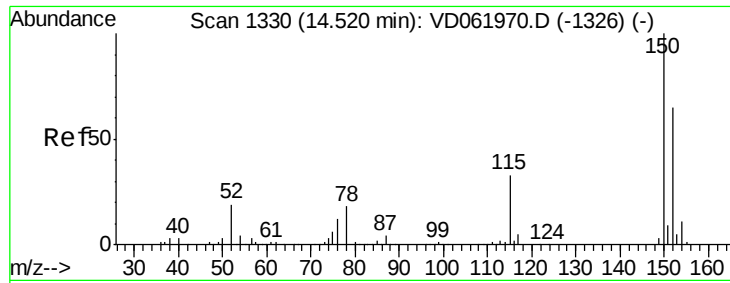
Tot Ion	95	Resp	205190
Ion Ratio	Lower	Upper	
95	100		
174	83.9	0.0	181.8
176	84.5	0.0	174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD062057.D
Acq: 26 Apr 2019 13:02

Tgt Ion	117	Resp	478878
Ion Ratio	Lower	Upper	
117	100		
82	48.7	36.2	54.2
119	32.5	26.2	39.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.53 min Scan# 1332

Delta R.T. 0.01 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

OK-01-042519RE

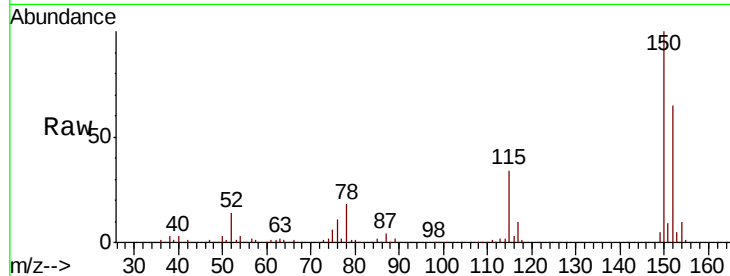
Tot Ion:152 Resp: 155764

Ion Ratio Lower Upper

152 100

115 51.6 30.9 92.7

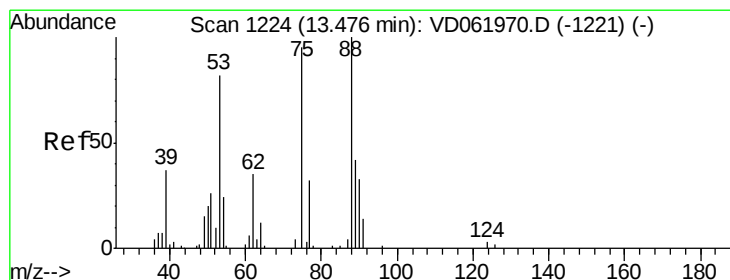
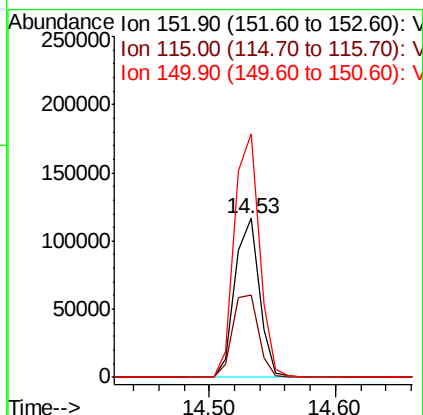
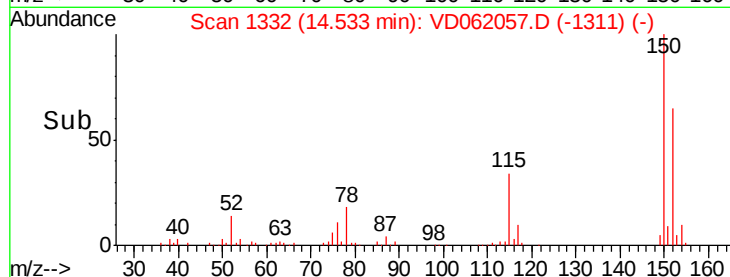
150 153.6 0.0 314.8



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: 127.097 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.09 min

Lab File: VD062057.D

Acq: 26 Apr 2019 13:02

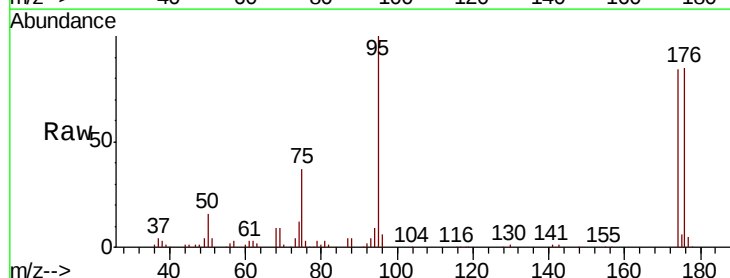
Tgt Ion: 75 Resp: 76182

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

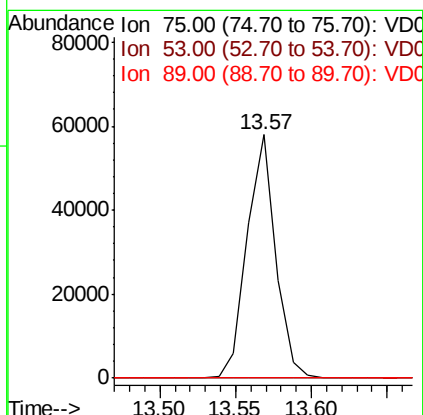
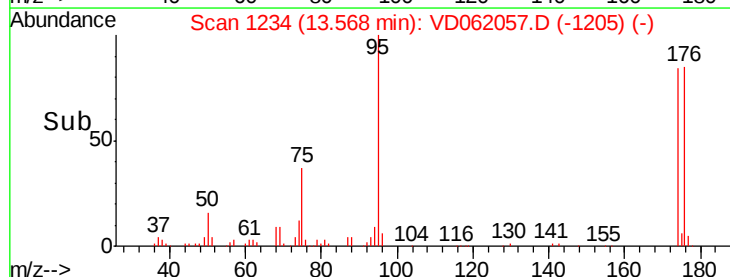
89 0.0 35.0 52.6#

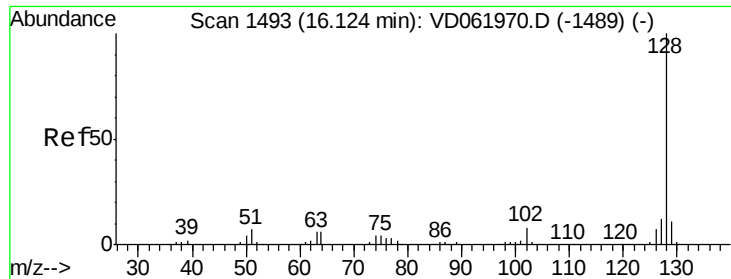


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#95

Naphthalene

Concen: 1.052 ug/l

RT: 16.14 min Scan# 1495

Delta R.T. 0.01 min

Lab File: VD062057.D

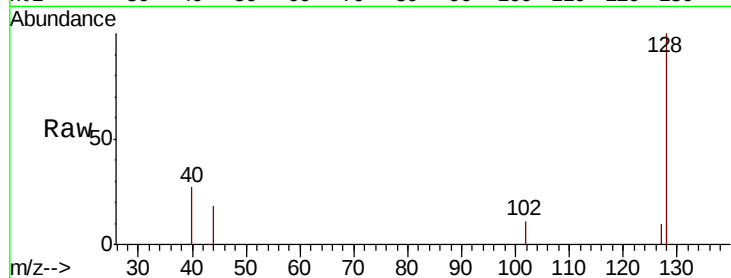
Acq: 26 Apr 2019 13:02

Instrument :

MSVOA_D

ClientSampleId :

OK-01-042519RE



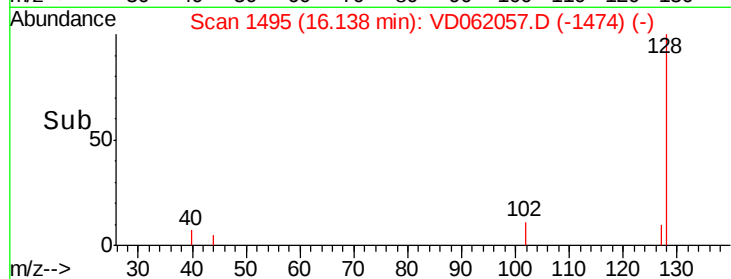
Tot Ion:128 Resp: 3947

Ion Ratio Lower Upper

128 100

127 10.0 9.8 14.8

129 0.0 8.8 13.2#



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

