

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051619\
 Data File : VD062428.D
 Acq On : 16 May 2019 20:15
 Operator : FY/SY
 Sample : K2637-01
 Misc : 7.19g/5mL/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-06-051519-A

Quant Time: May 17 02:31:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	15803	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	24868	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.36	117	22742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.51	152	12500	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	11048	75.23	ug/l	0.01
Spiked Amount			Recovery	=	150.46%	
35) Dibromofluoromethane	6.92	113	9921	48.08	ug/l	0.02
Spiked Amount			Recovery	=	96.16%	
50) Toluene-d8	10.40	98	16756	33.68	ug/l	0.00
Spiked Amount			Recovery	=	67.36%	
62) 4-Bromofluorobenzene	13.55	95	9730	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	

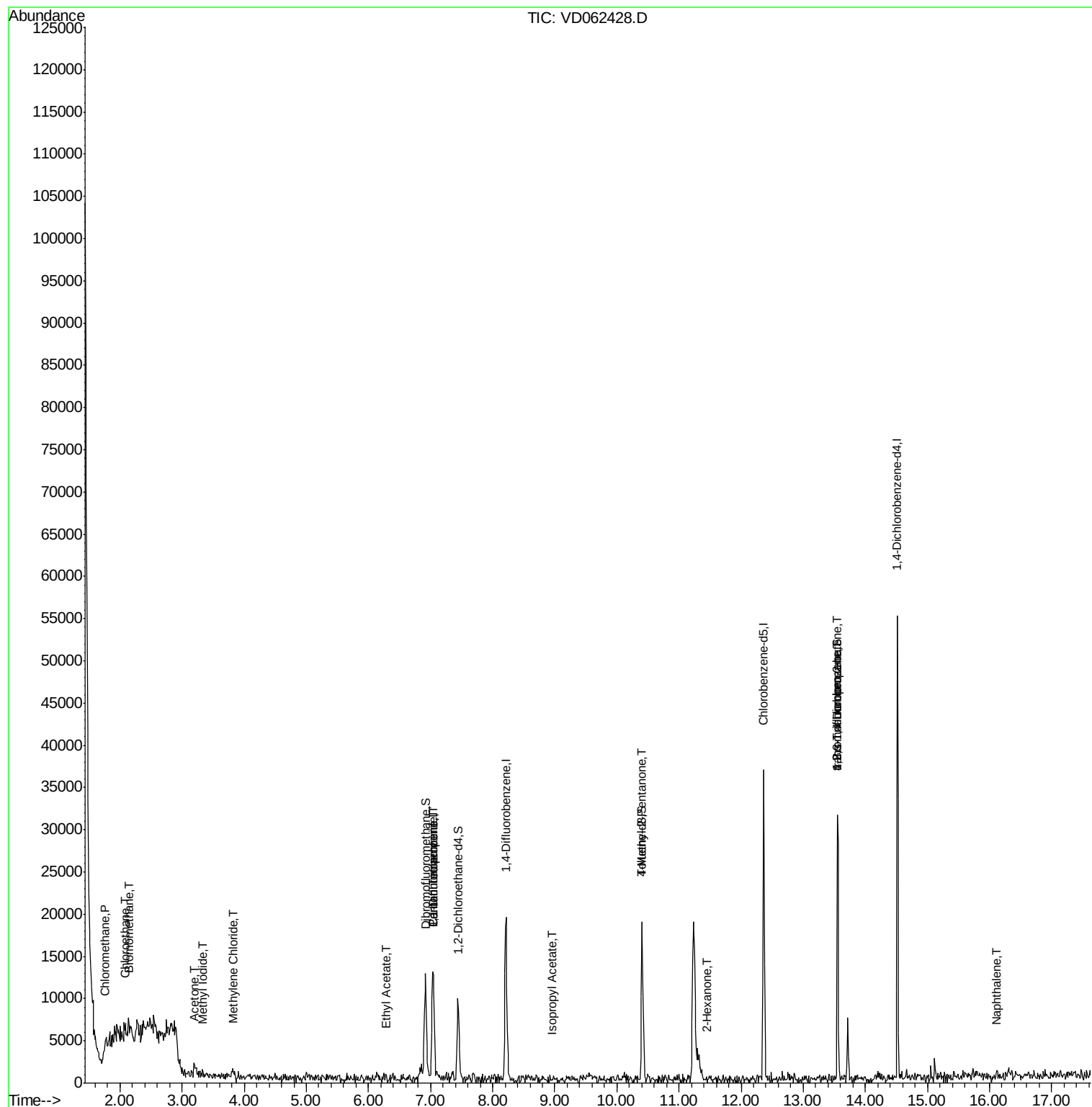
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	208	1.905	ug/l #	43
5) Bromomethane	2.14	94	1121	44.574	ug/l #	12
6) Chloroethane	2.09	64	208	4.618	ug/l #	43
10) Methyl Iodide	3.34	142	378	1.584	ug/l #	37
16) Acetone	3.21	43	2386	77.473	ug/l #	50
20) Methylene Chloride	3.81	84	188	1.462	ug/l #	64
36) 1,1-Dichloropropene	7.05	75	476	2.335	ug/l #	40
37) Ethyl Acetate	6.29	43	261	3.018	ug/l #	64
38) Carbon Tetrachloride	7.03	117	1170	4.146	ug/l #	12
43) Isopropyl Acetate	8.95	43	188	1.533	ug/l #	43
51) 4-Methyl-2-Pentanone	10.39	43	193	2.448	ug/l #	37
59) 2-Hexanone	11.44	43	227	3.907	ug/l #	27
76) 1,2,3-Trichloropropane	13.55	75	4290	28.879	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.55	75	4751	113.289	ug/l #	16
95) Naphthalene	16.13	128	558	1.740	ug/l #	70

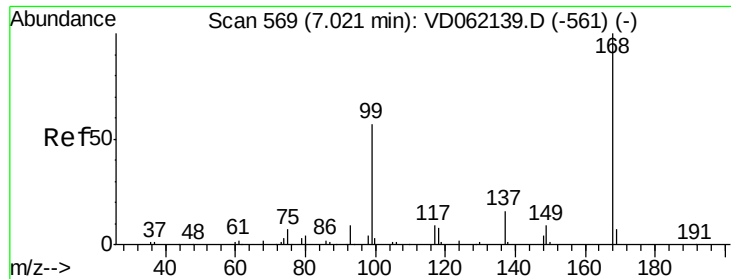
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.01 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

Instrument :

MSVOA_D

ClientSampleId :

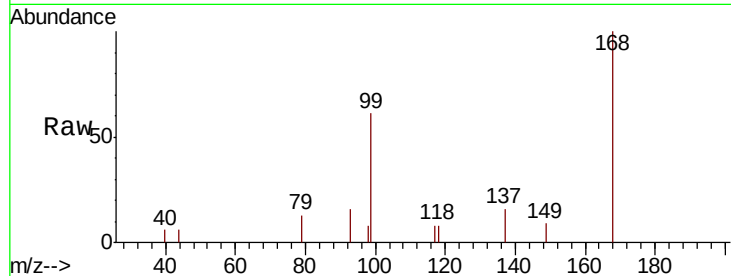
HR-06-051519-A

Tot Ion:168 Resp: 15803

Ion Ratio Lower Upper

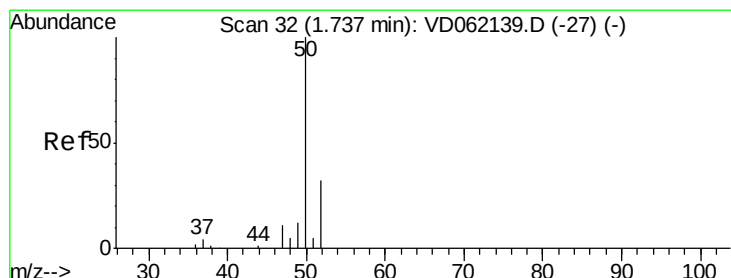
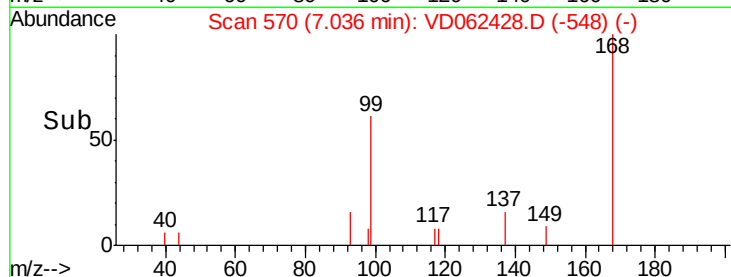
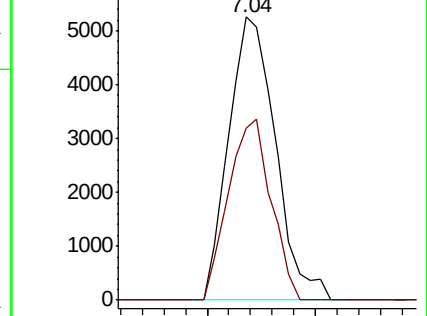
168 100

99 60.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 1.905 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD062428.D

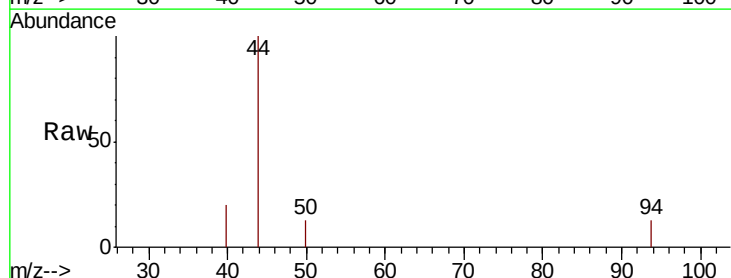
Acq: 16 May 2019 20:15

Tgt Ion: 50 Resp: 208

Ion Ratio Lower Upper

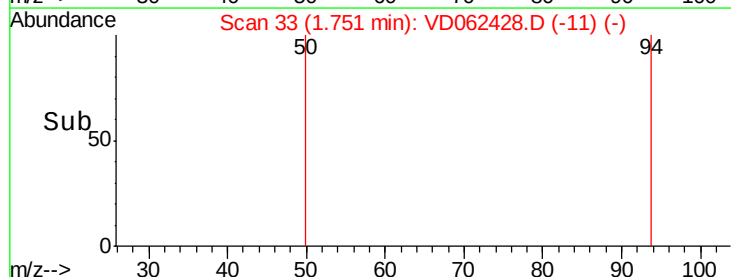
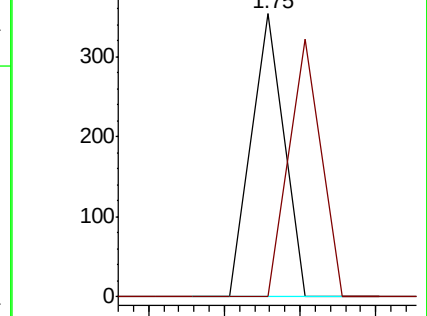
50 100

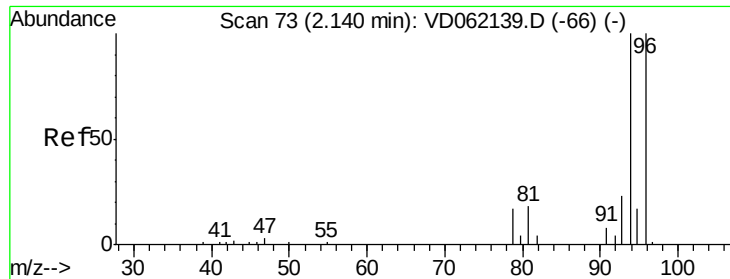
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 44.574 ug/l

RT: 2.14 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

Instrument :

MSVOA_D

ClientSampleId :

HR-06-051519-A

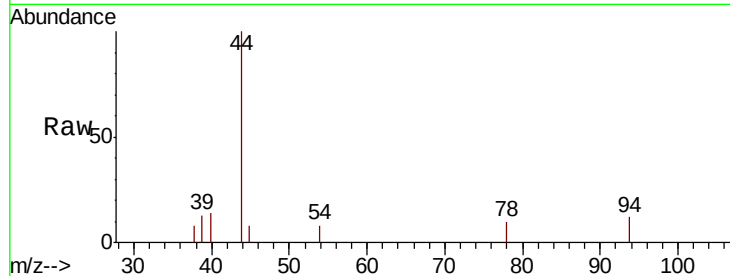
Tot Ion: 94 Resp: 1121

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

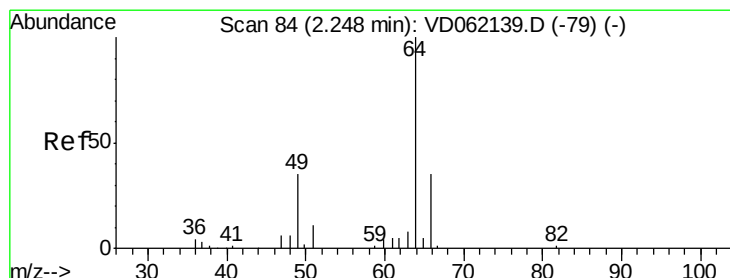
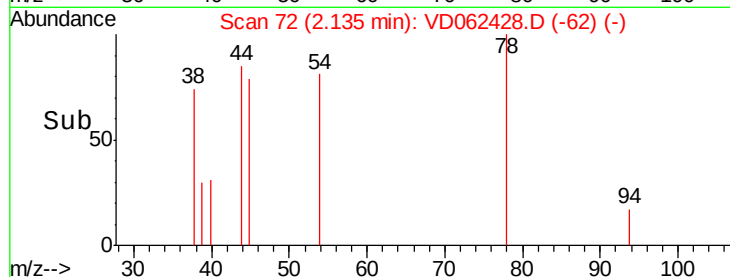
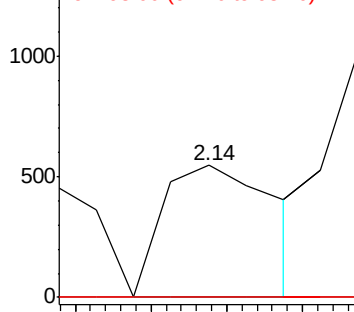
93 0.0 18.5 27.7#



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



#6

Chloroethane

Concen: 4.618 ug/l

RT: 2.09 min Scan# 67

Delta R.T. -0.16 min

Lab File: VD062428.D

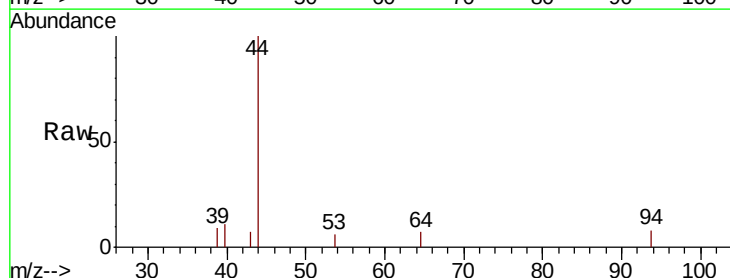
Acq: 16 May 2019 20:15

Tgt Ion: 64 Resp: 208

Ion Ratio Lower Upper

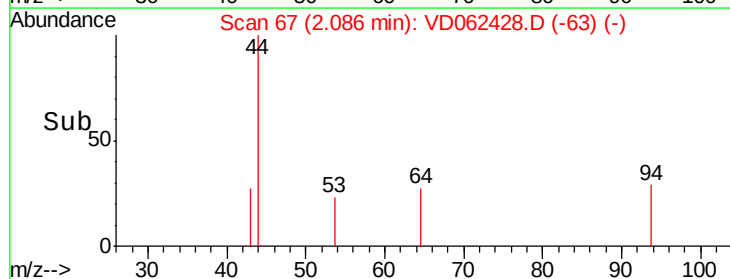
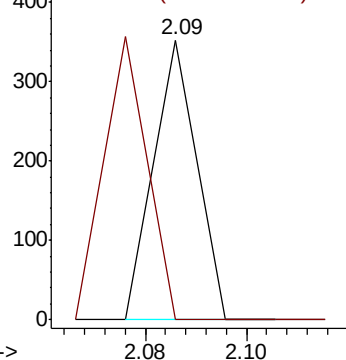
64 100

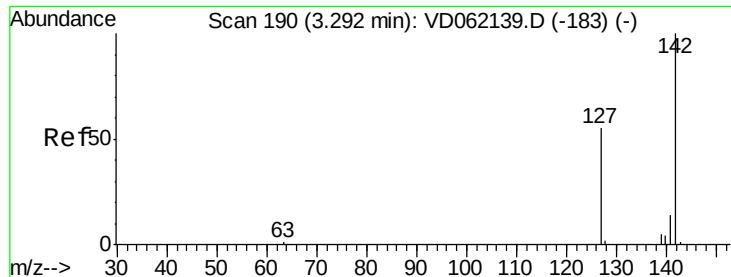
66 0.0 25.6 38.4#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

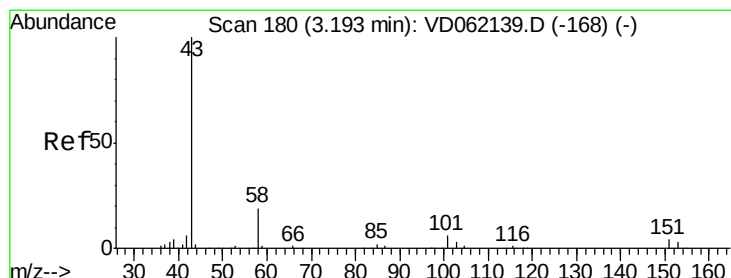
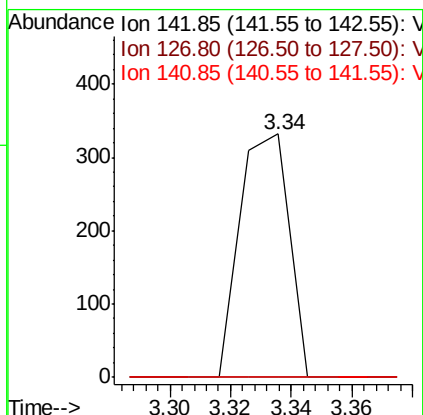
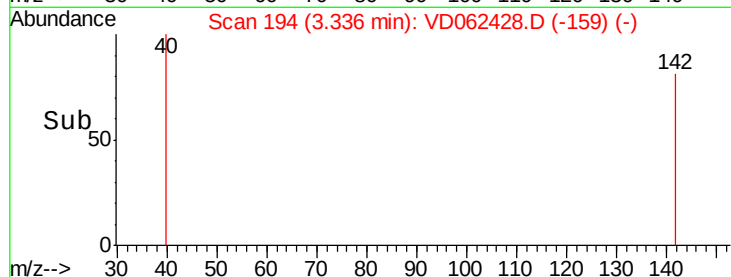
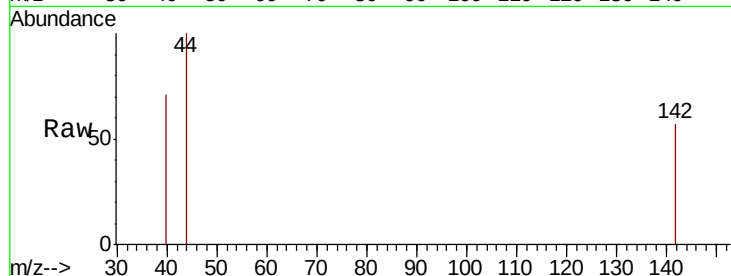




#10
Methyl Iodide
Concen: 1.584 ug/l
RT: 3.34 min Scan# 194
Delta R.T. 0.04 min
Lab File: VD062428.D
Acq: 16 May 2019 20:15

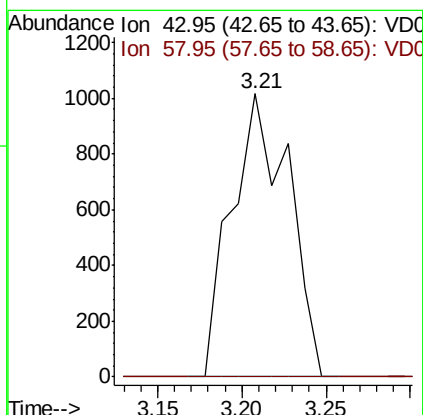
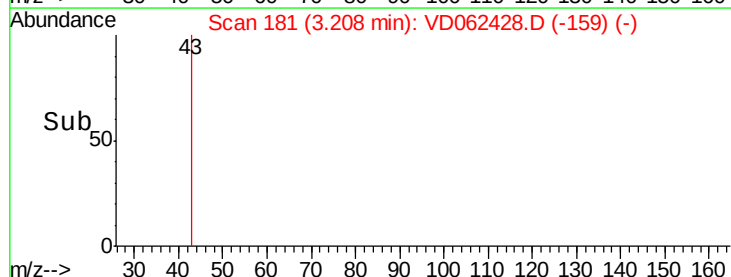
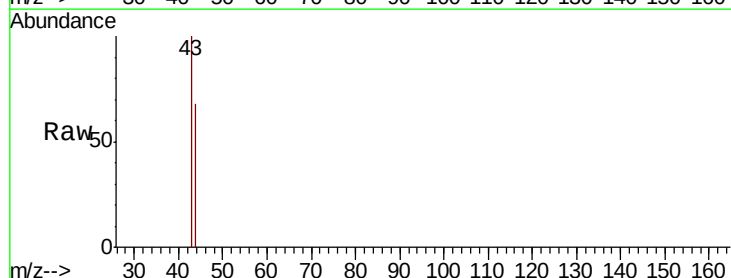
Instrument :
MSVOA_D
ClientSampleId :
HR-06-051519-A

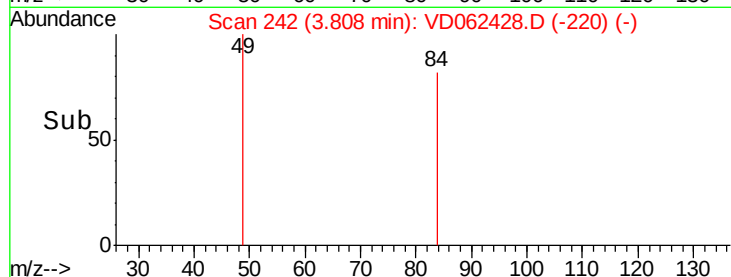
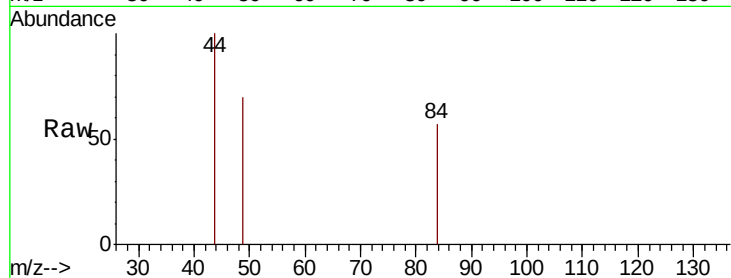
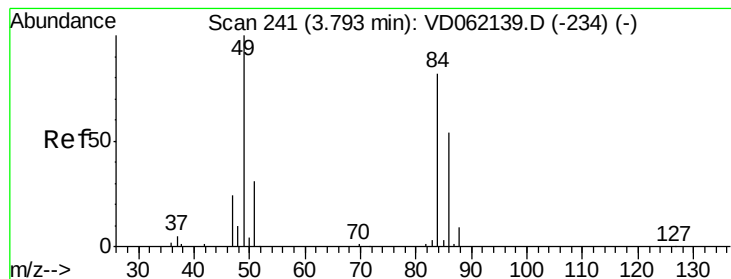
Tot Ion:142 Resp: 378
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 77.473 ug/l
RT: 3.21 min Scan# 181
Delta R.T. 0.01 min
Lab File: VD062428.D
Acq: 16 May 2019 20:15

Tgt Ion: 43 Resp: 2386
Ion Ratio Lower Upper
43 100
58 0.0 19.9 29.9#





#20

Methylene Chloride

Concen: 1.462 ug/l

RT: 3.81 min Scan# 242

Delta R.T. 0.01 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

Instrument :

MSVOA_D

ClientSampleId :

HR-06-051519-A

Tot Ion: 84 Resp: 188

Ion Ratio Lower Upper

84 100

49 122.3 94.0 141.0

51 0.0 29.0 43.4#

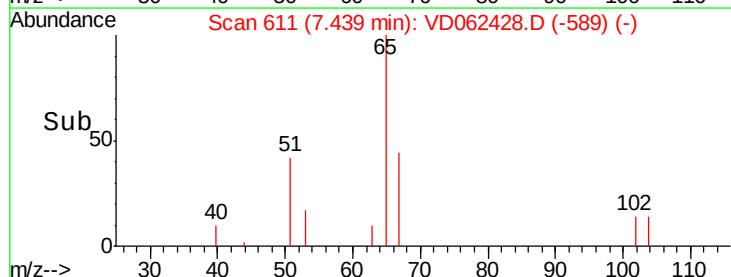
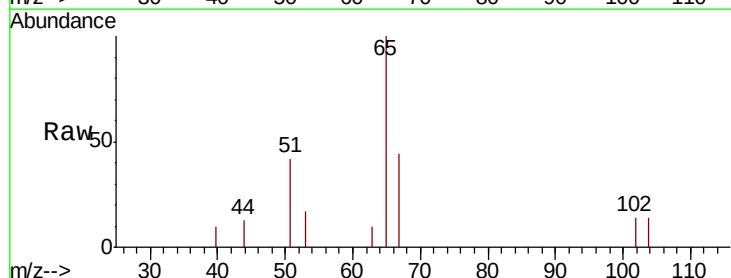
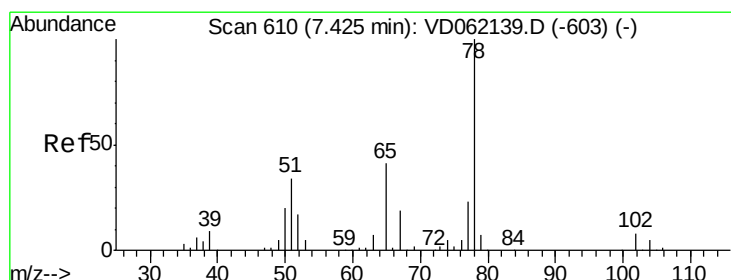
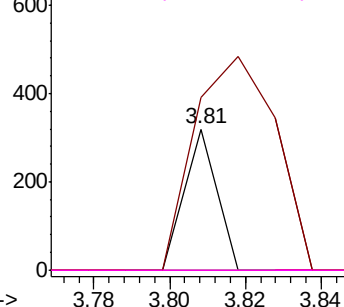
86 0.0 49.8 74.6#

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



#33

1,2-Dichloroethane-d4

Concen: 75.228 ug/l

RT: 7.44 min Scan# 611

Delta R.T. 0.01 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

Tgt Ion: 65 Resp: 11048

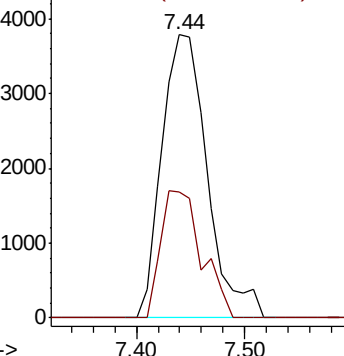
Ion Ratio Lower Upper

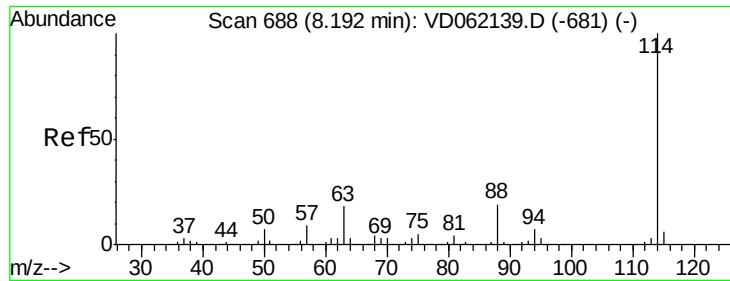
65 100

67 44.5 0.0 98.0

Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

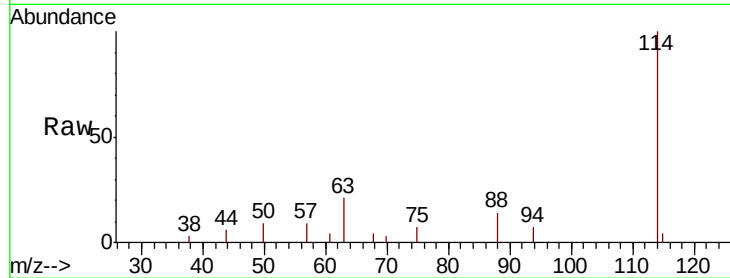




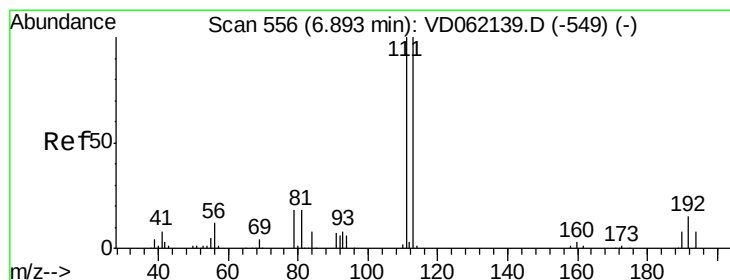
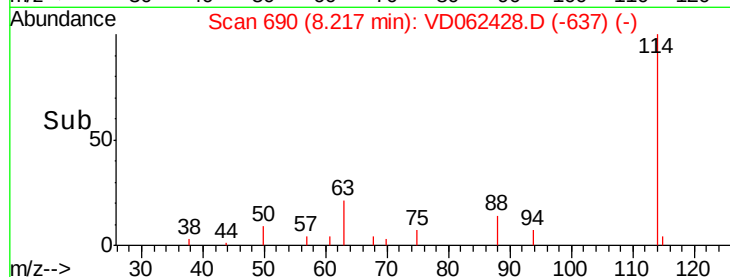
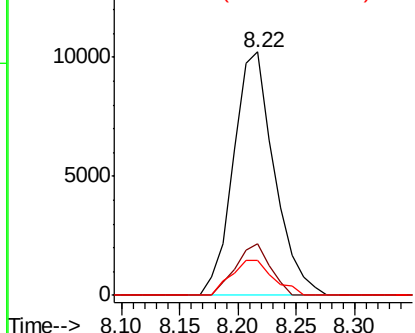
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.02 min
 Lab File: VD062428.D
 Acq: 16 May 2019 20:15

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-06-051519-A

Tot Ion:114 Resp: 24868
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 32.4
 88 14.3 0.0 33.6

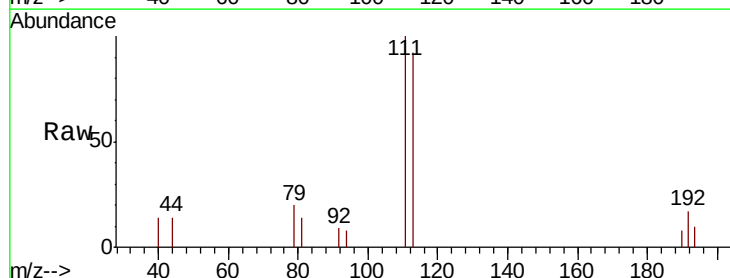


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

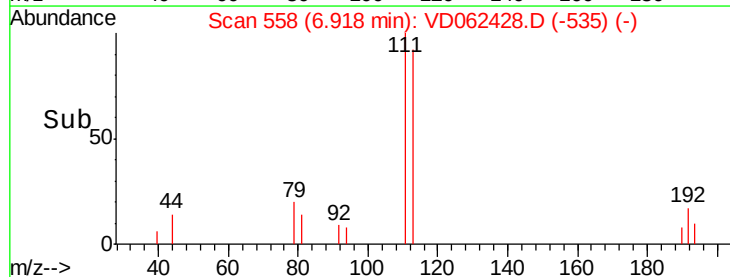
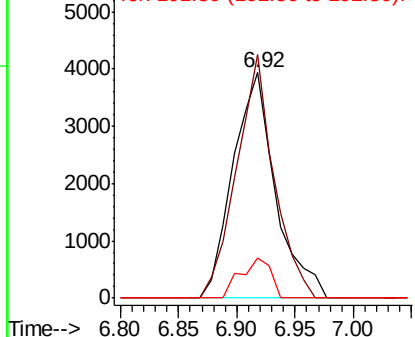


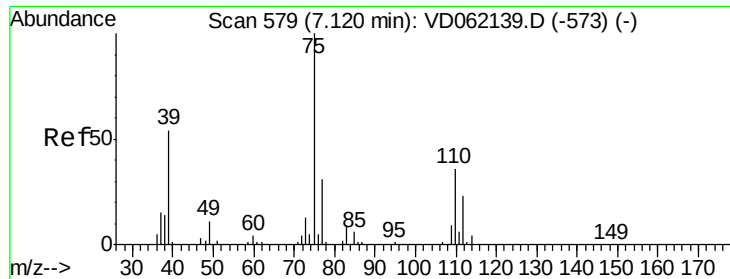
#35
 Dibromofluoromethane
 Concen: 48.083 ug/l
 RT: 6.92 min Scan# 558
 Delta R.T. 0.02 min
 Lab File: VD062428.D
 Acq: 16 May 2019 20:15

Tgt Ion:113 Resp: 9921
 Ion Ratio Lower Upper
 113 100
 111 108.1 78.5 117.7
 192 17.9 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

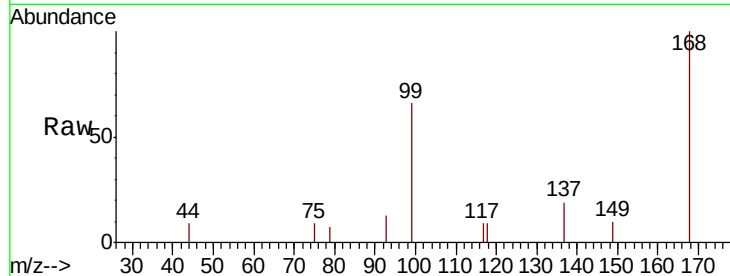




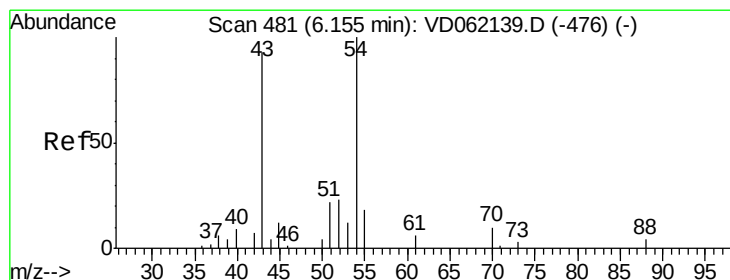
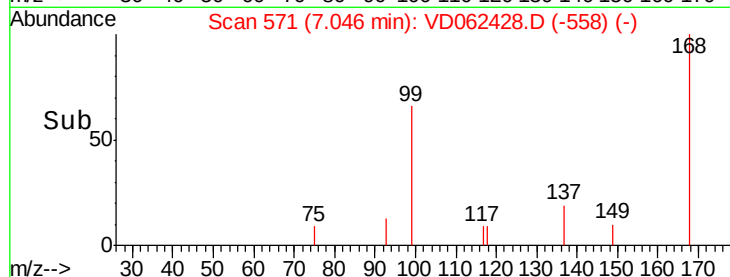
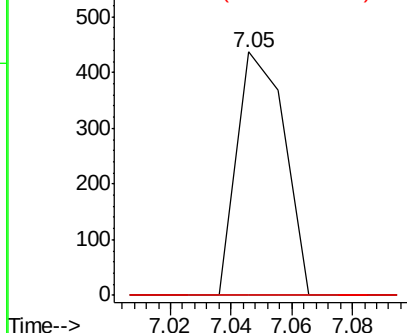
#36
 1,1-Dichloropropene
 Concen: 2.335 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.07 min
 Lab File: VD062428.D
 Acq: 16 May 2019 20:15

Instrument :
 MSVOA_D
 ClientSampleId :
 HR-06-051519-A

Tot Ion: 75 Resp: 476
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.1 57.1#
 77 0.0 25.6 38.4#

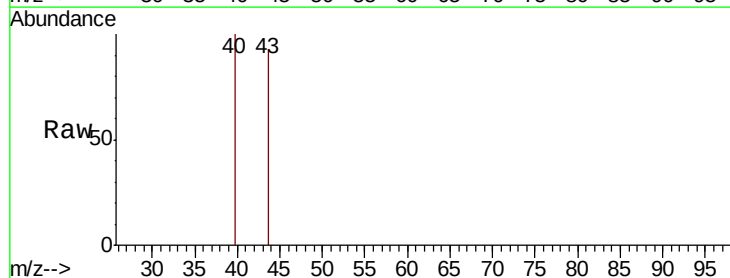


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

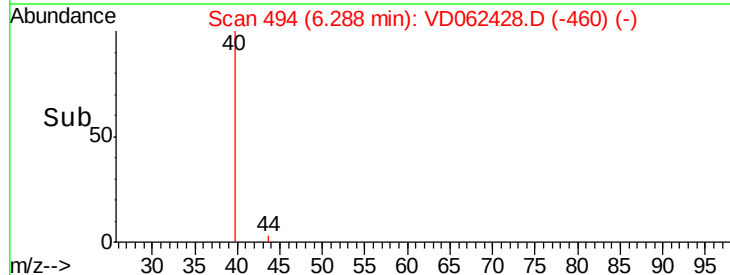
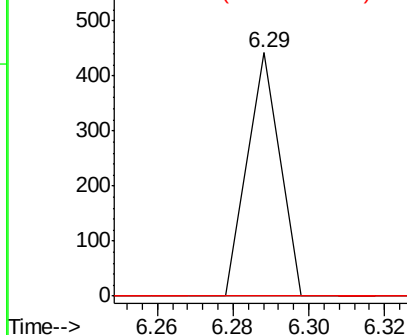


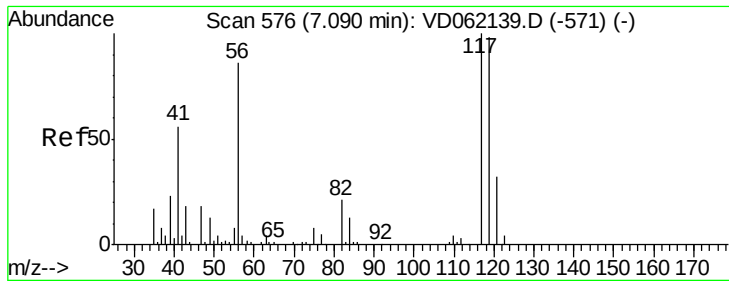
#37
 Ethyl Acetate
 Concen: 3.018 ug/l
 RT: 6.29 min Scan# 494
 Delta R.T. 0.13 min
 Lab File: VD062428.D
 Acq: 16 May 2019 20:15

Tgt Ion: 43 Resp: 261
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.7 22.1#
 70 0.0 7.8 11.6#



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: 4.146 ug/l

RT: 7.03 min Scan# 569

Delta R.T. -0.06 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

Instrument :

MSVOA_D

ClientSampleId :

HR-06-051519-A

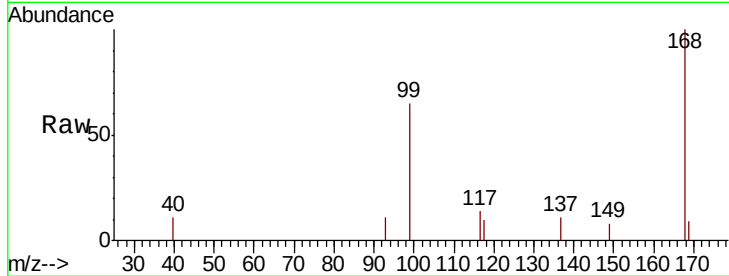
Tot Ion:117 Resp: 1170

Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 25.9 38.9#



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

7.03

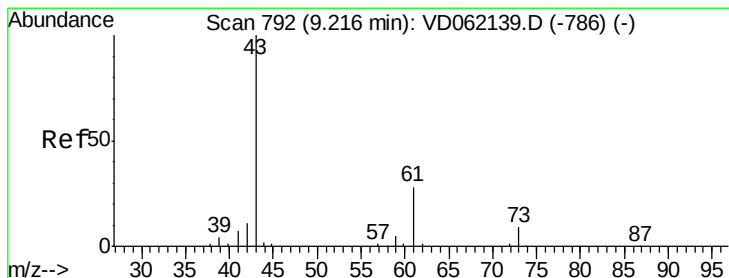
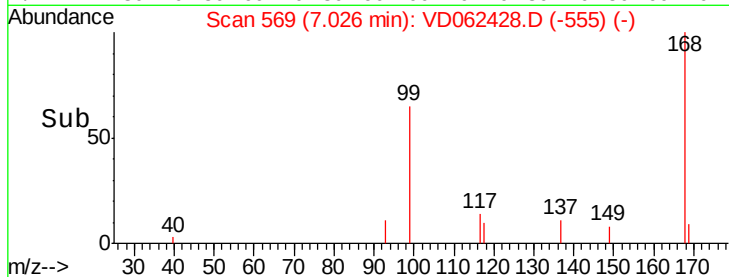
600

400

200

0

Time-->



#43

Isopropyl Acetate

Concen: 1.533 ug/l

RT: 8.95 min Scan# 764

Delta R.T. -0.27 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

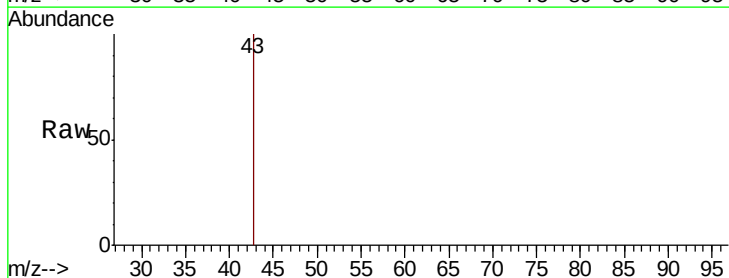
Tgt Ion: 43 Resp: 188

Ion Ratio Lower Upper

43 100

61 0.0 25.1 37.7#

87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 60.95 (60.65 to 61.65): V

Ion 87.00 (86.70 to 87.70): V

8.95

400

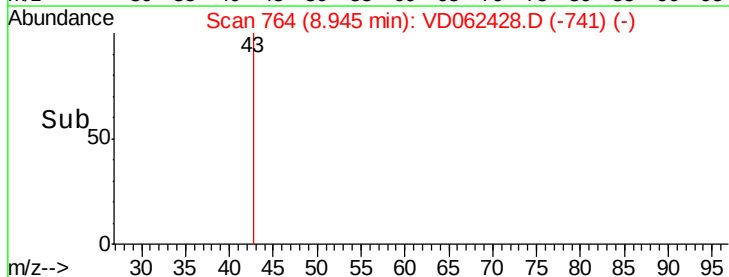
300

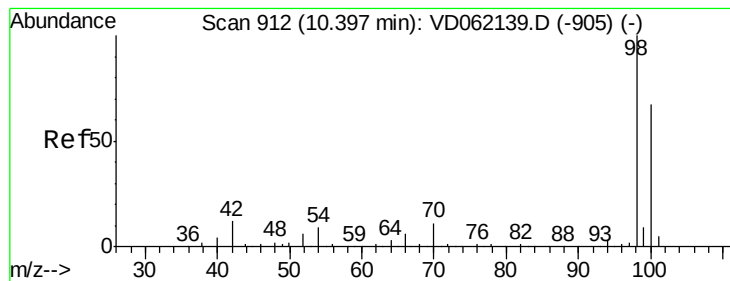
200

100

0

Time-->





#50

Toluene-d8

Concen: 33.682 ug/l

RT: 10.40 min Scan# 912

Delta R.T. 0.00 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

Instrument :

MSVOA_D

ClientSampleId :

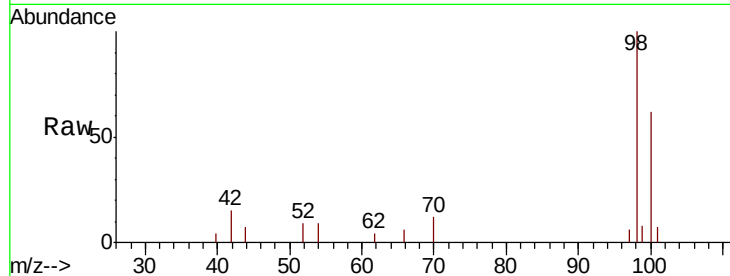
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Tot Ion: 98 Resp: 16756

Ion Ratio Lower Upper

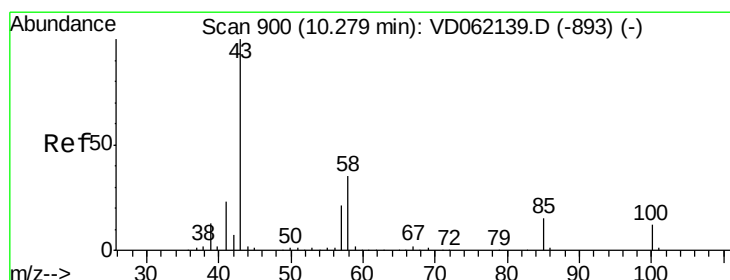
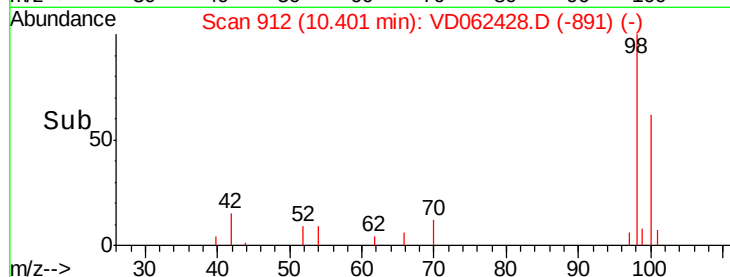
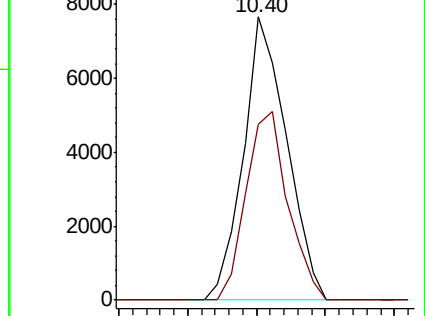
98 100

100 62.0 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC



#51

4-Methyl-2-Pentanone

Concen: 2.448 ug/l

RT: 10.39 min Scan# 911

Delta R.T. 0.11 min

Lab File: VD062428.D

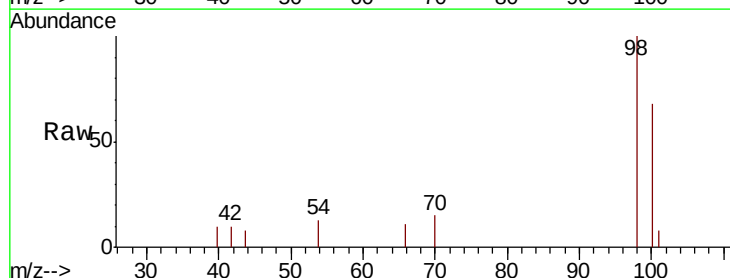
Acq: 16 May 2019 20:15

Tgt Ion: 43 Resp: 193

Ion Ratio Lower Upper

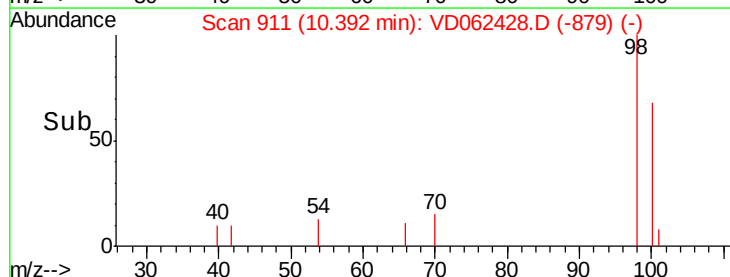
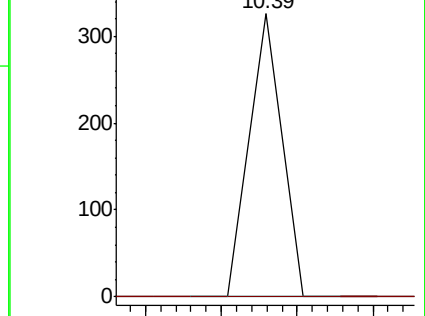
43 100

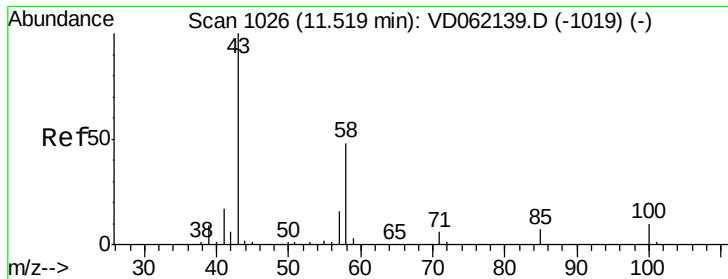
58 0.0 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#59

2-Hexanone

Concen: 3.907 ug/l

RT: 11.44 min Scan# 1018

Delta R.T. -0.07 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

Instrument :

MSVOA_D

ClientSampleId :

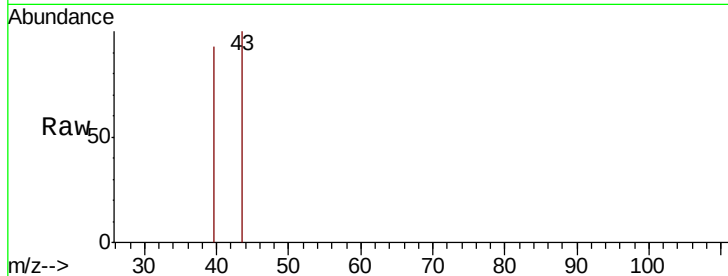
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Tot Ion: 43 Resp: 227

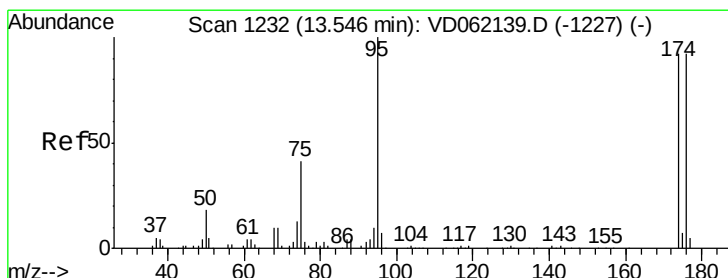
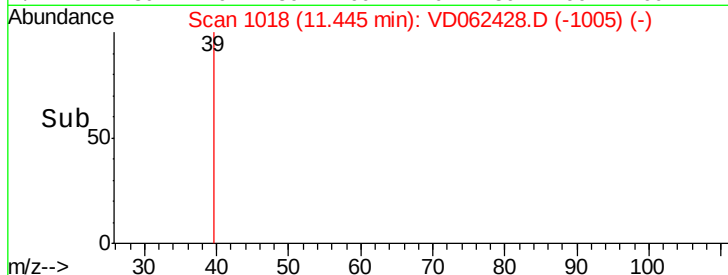
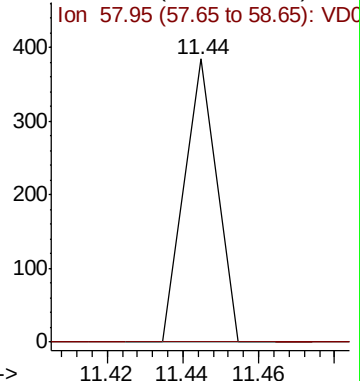
Ion Ratio Lower Upper

43 100

58 0.0 25.4 76.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC



#62

4-Bromofluorobenzene

Concen: 48.706 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062428.D

Acq: 16 May 2019 20:15

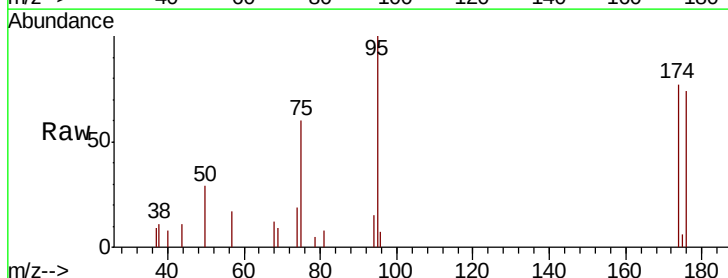
Tgt Ion: 95 Resp: 9730

Ion Ratio Lower Upper

95 100

174 77.1 0.0 181.8

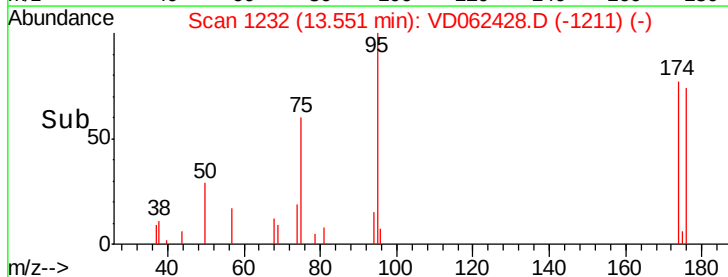
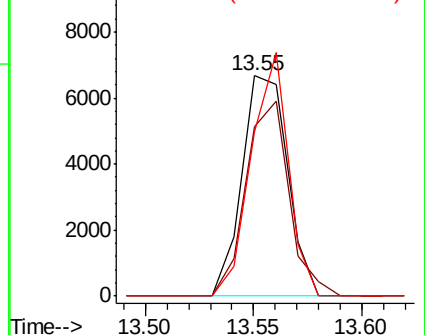
176 74.4 0.0 174.4

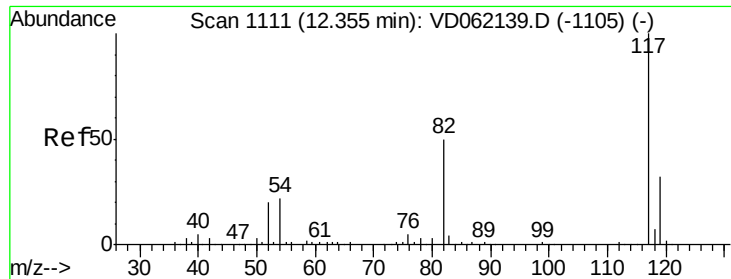


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): VDC

Ion 175.90 (175.60 to 176.60): VDC

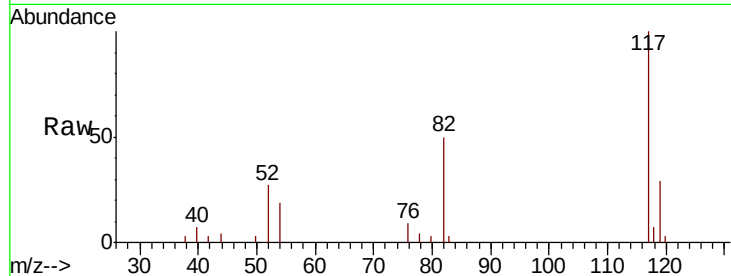




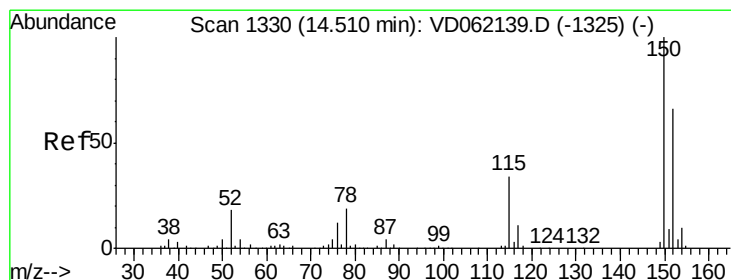
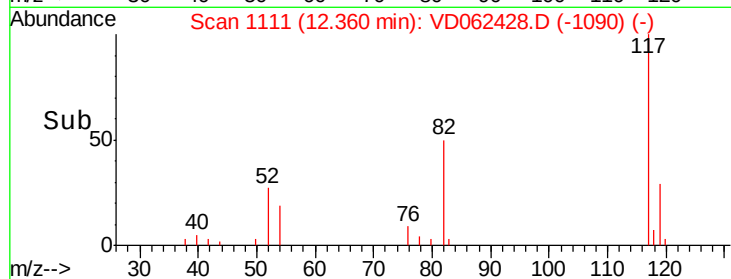
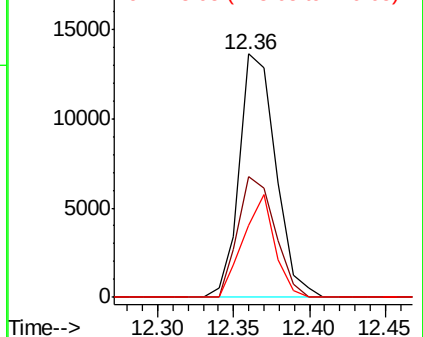
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD062428.D
Acq: 16 May 2019 20:15

Instrument :
MSVOA_D
ClientSampleId :
HR-06-051519-A

Tot Ion:117 Resp: 22742
Ion Ratio Lower Upper
117 100
82 52.4 36.2 54.2
119 29.4 26.2 39.4

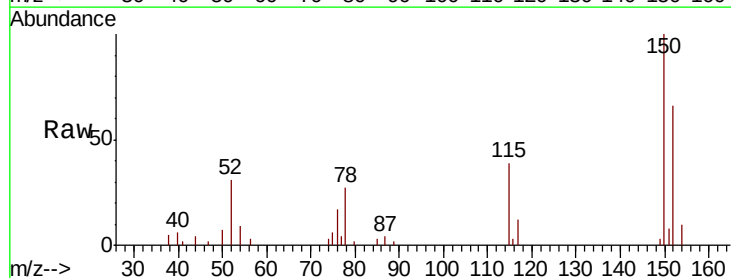


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

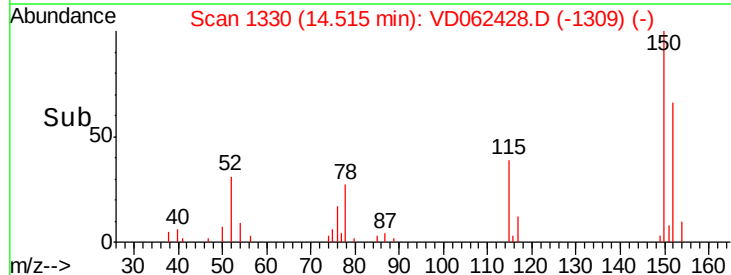
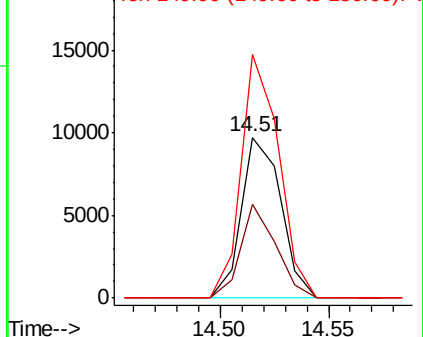


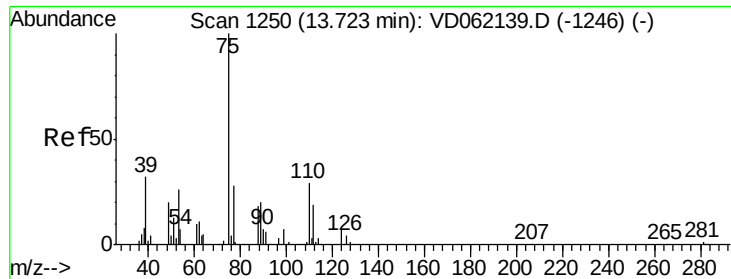
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062428.D
Acq: 16 May 2019 20:15

Tgt Ion:152 Resp: 12500
Ion Ratio Lower Upper
152 100
115 58.3 30.9 92.7
150 151.2 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

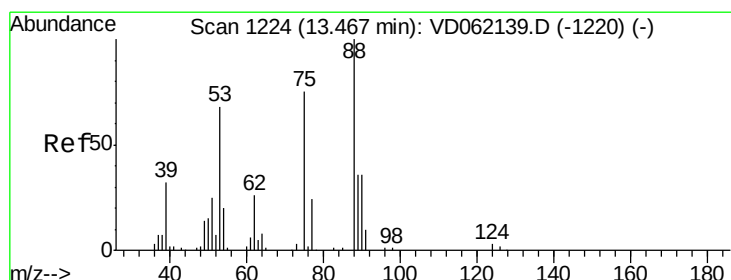
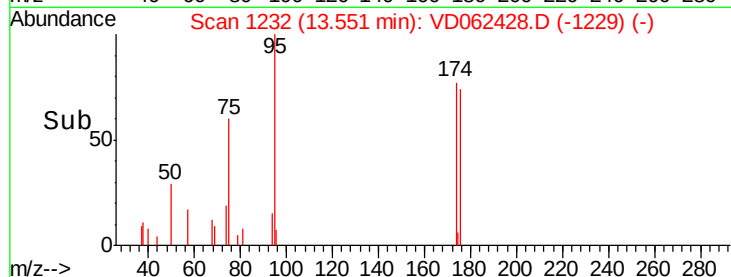
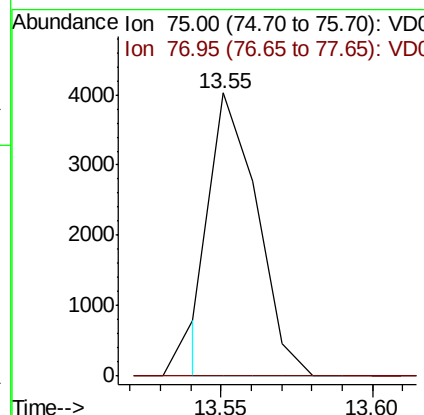
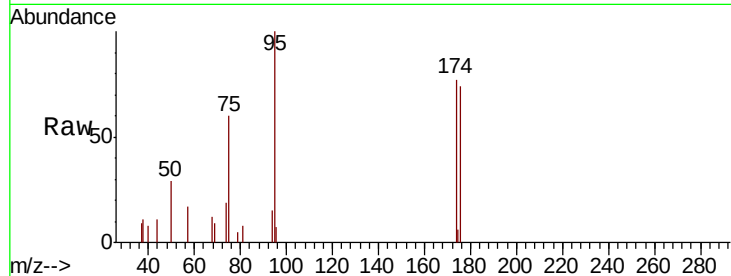




#76
 1,2,3-Trichloropropane
 Concen: 28.879 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.17 min
 Lab File: VD062428.D
 Acq: 16 May 2019 20:15

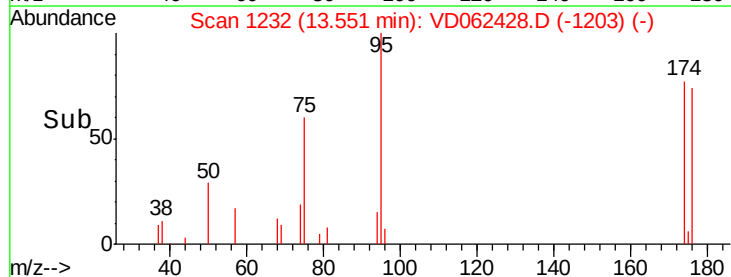
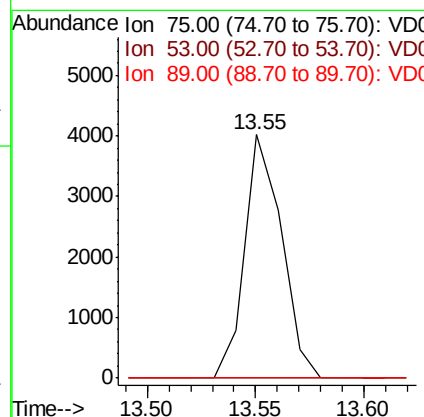
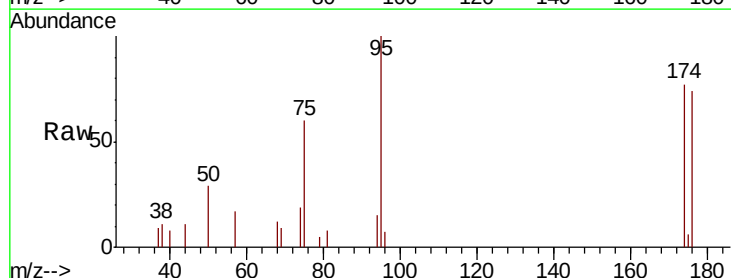
Instrument :
 MSVOA_D
 ClientSampleId :
 HR-06-051519-A

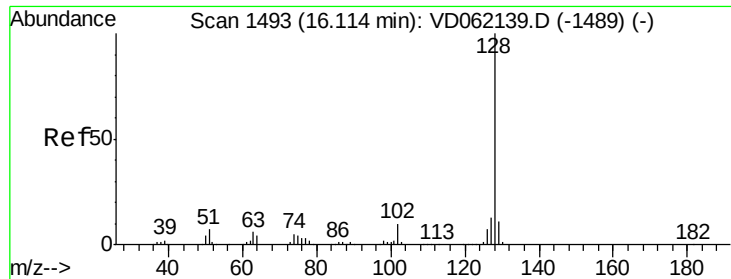
Tot Ion: 75 Resp: 4290
 Ion Ratio Lower Upper
 75 100
 77 0.0 16.4 49.4#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.289 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. 0.08 min
 Lab File: VD062428.D
 Acq: 16 May 2019 20:15

Tgt Ion: 75 Resp: 4751
 Ion Ratio Lower Upper
 75 100
 53 0.0 65.8 98.8#
 89 0.0 35.0 52.6#





#95

Naphthalene

Concen: 1.740 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD062428.D

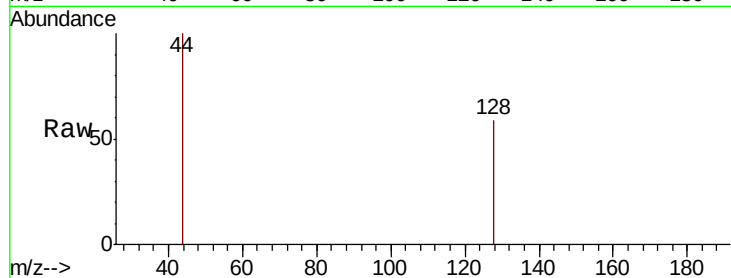
Acq: 16 May 2019 20:15

Instrument :

MSVOA_D

ClientSampleId :

HR-06-051519-A



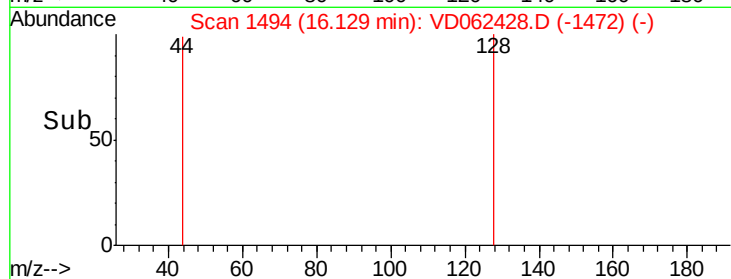
Tot Ion:128 Resp: 558

Ion Ratio Lower Upper

128 100

127 0.0 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

