

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042419\
 Data File : VD062026.D
 Acq On : 25 Apr 2019 7:43
 Operator : VA/AP
 Sample : K2518-02RE
 Misc : 5.00µl/5ml/MSVOA D/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 25 08:51:50 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	7.07	168	90361	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.24	114	172058	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	108630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	45906	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.47	65	61000	86.25	ug/l	0.01
Spiked Amount	50.000		Recovery	=	172.50%	
35) Dibromofluoromethane	6.95	113	59677	50.15	ug/l	0.01
Spiked Amount	50.000		Recovery	=	100.30%	
50) Toluene-d8	10.42	98	93660	33.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	66.16%	
62) 4-Bromofluorobenzene	13.56	95	48133	42.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.76%	

Target Compounds

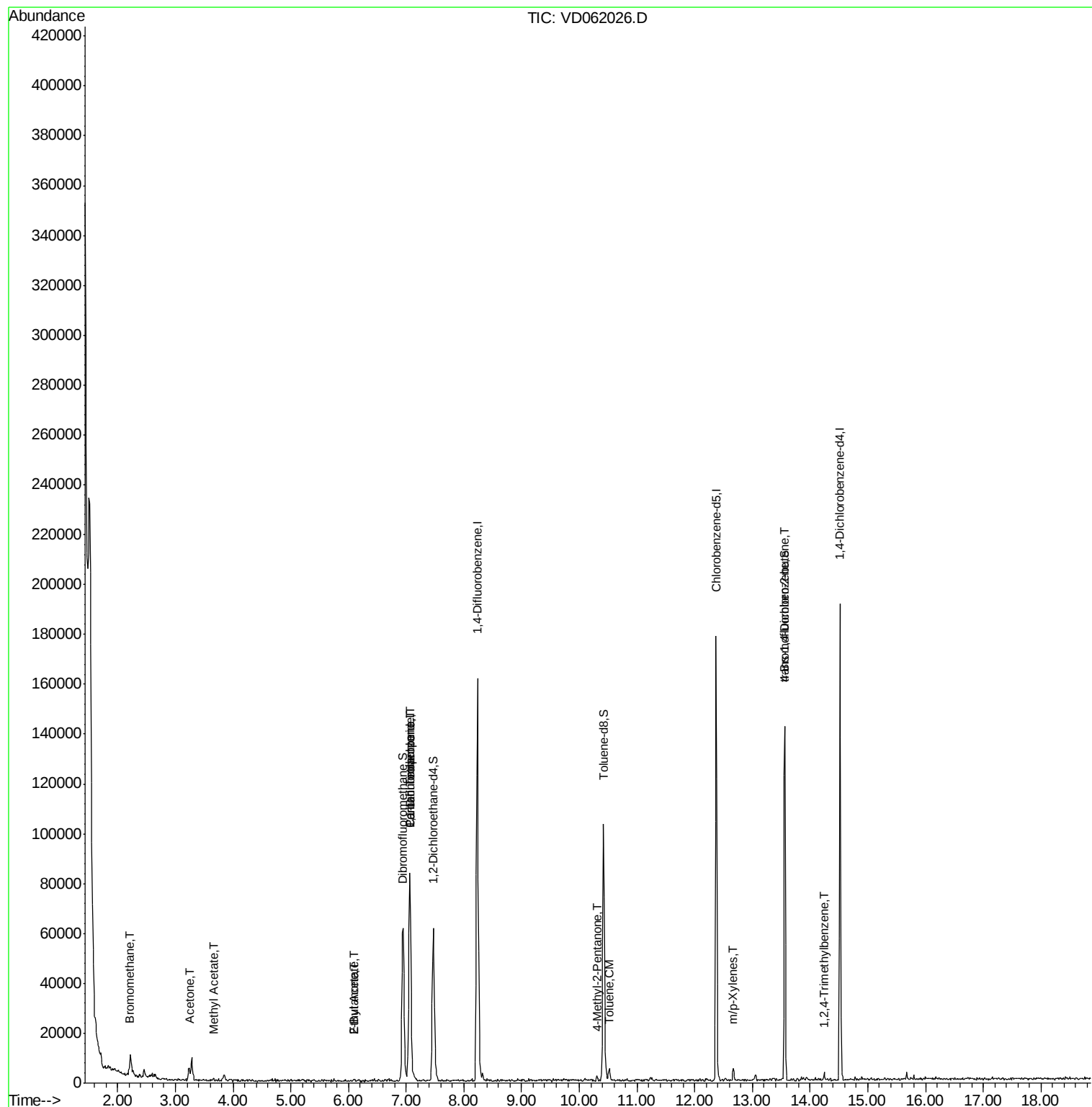
					Qvalue	
5) Bromomethane	2.19	94	380	1.491	ug/l #	12
16) Acetone	3.25	43	11529	68.275	ug/l #	85
18) Methyl Acetate	3.66	43	971	1.054	ug/l #	53
20) Methylene Chloride	3.85	84	1818	Below Cal	#	65
25) 2-Butanone	6.09	43	1052	5.138	ug/l #	56
36) 1,1-Dichloropropene	7.07	75	6215	4.636	ug/l #	40
37) Ethyl Acetate	6.09	43	1052	1.842	ug/l #	64
38) Carbon Tetrachloride	7.06	117	8220	4.839	ug/l #	12
51) 4-Methyl-2-Pentanone	10.30	43	1903	3.728	ug/l #	37
52) Toluene	10.51	92	2876	1.359	ug/l	83
68) m/p-Xylenes	12.67	106	2069	1.709	ug/l	82
81) trans-1,4-Dichloro-2-buten	13.55	75	18015	101.980	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	2361	1.013	ug/l	79

(#) = 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: 7.07 min Scan# 573

Delta R.T. 0.01 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

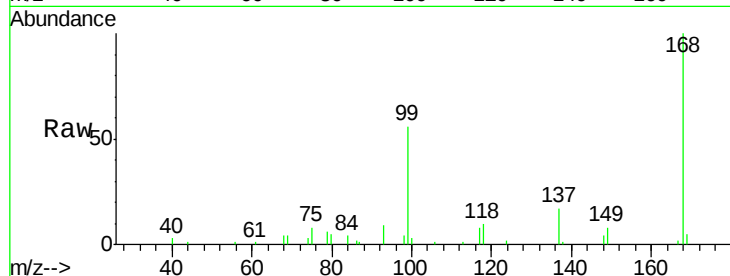
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 90361

Ion Ratio Lower Upper

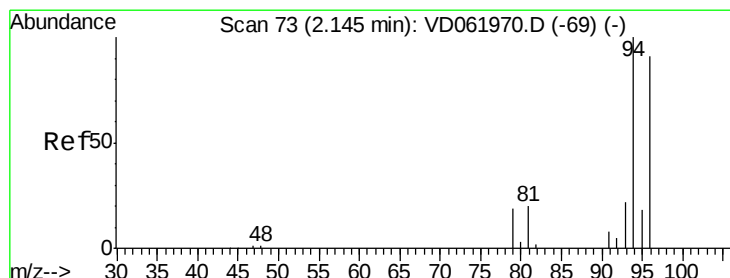
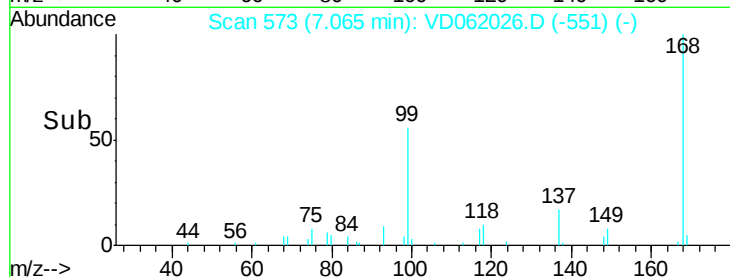
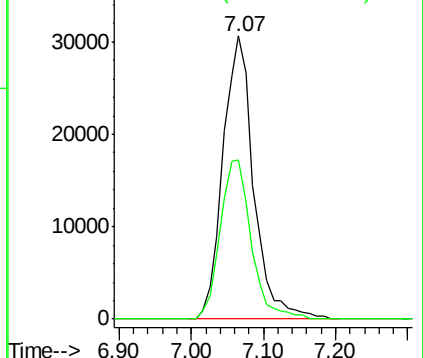
168 100

99 56.5 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.491 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.03 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

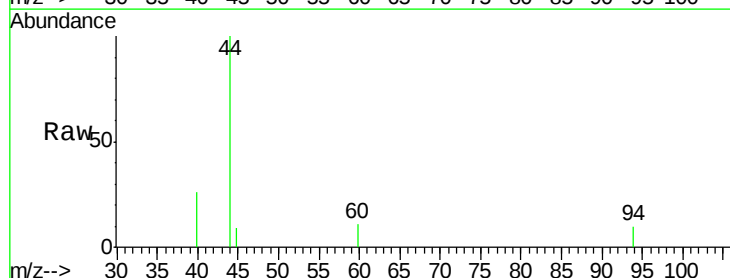
Tgt Ion: 94 Resp: 380

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

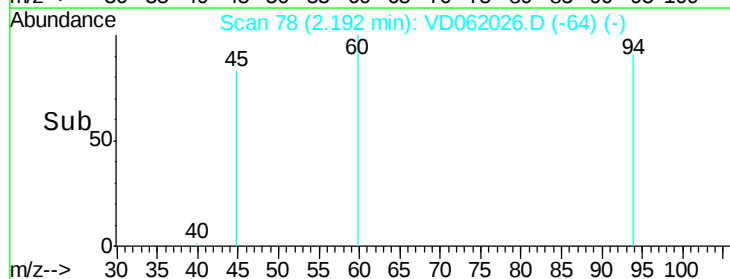
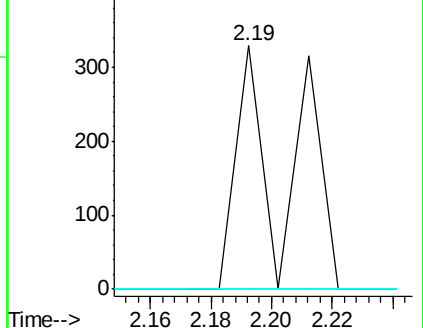
93 0.0 18.5 27.7#

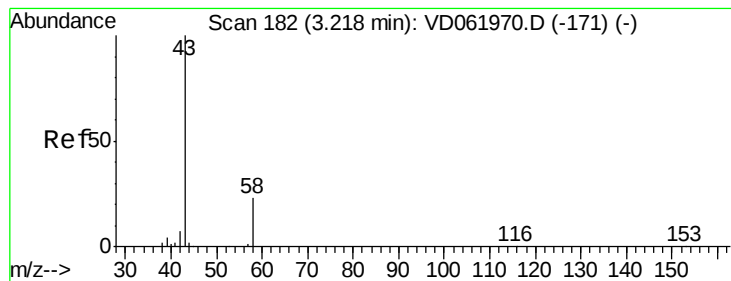


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 68.275 ug/l

RT: 3.25 min Scan# 185

Delta R.T. 0.02 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

Instrument :

MSVOA_D

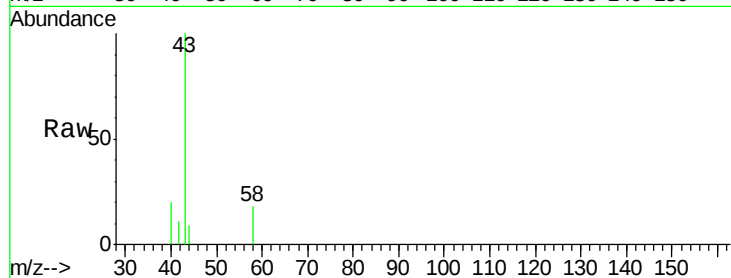
ClientSampleId :

Tot Ion: 43 Resp: 11529

Ion Ratio Lower Upper

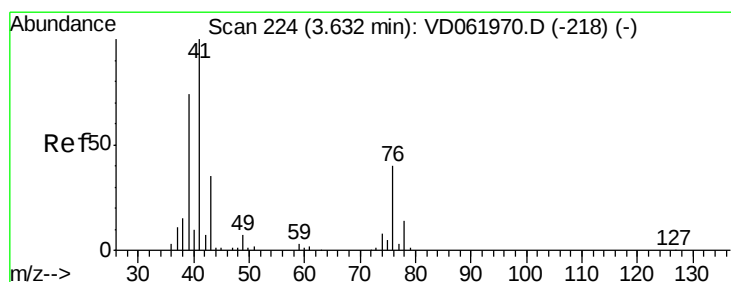
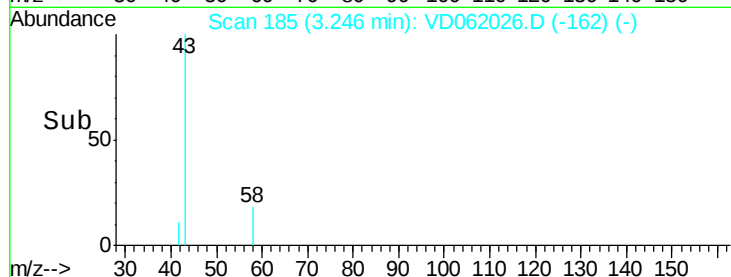
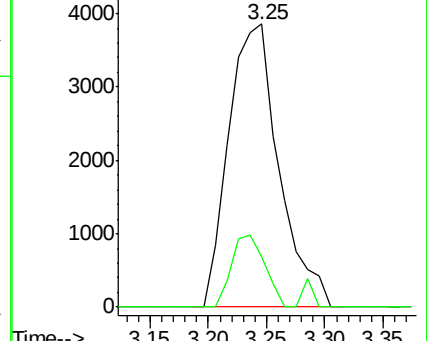
43 100

58 17.6 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: 1.054 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD062026.D

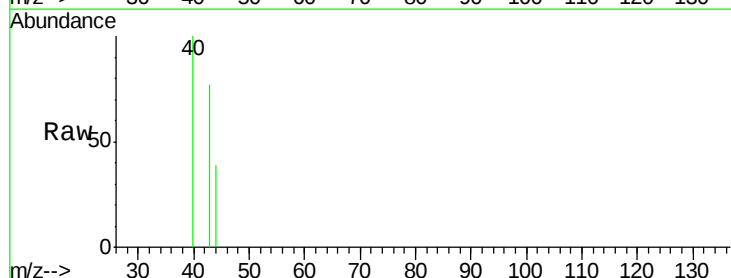
Acq: 25 Apr 2019 7:43

Tgt Ion: 43 Resp: 971

Ion Ratio Lower Upper

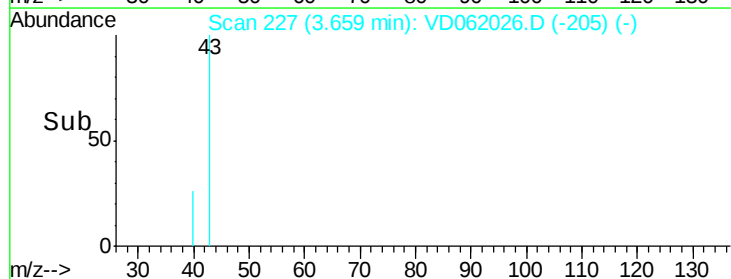
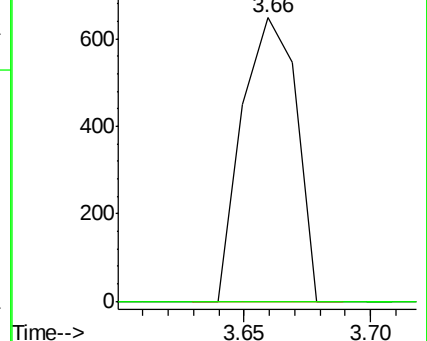
43 100

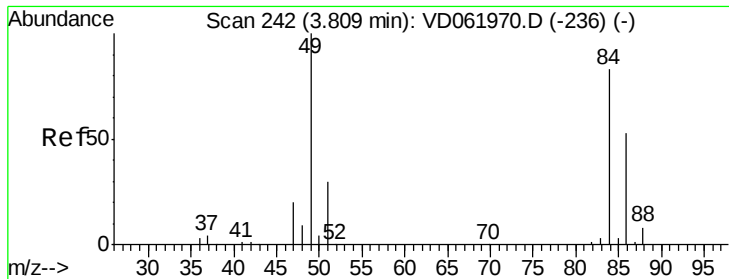
74 0.0 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methvlene Chloride

Concen: Below Cal

RT: 3.85 min Scan# 246

Delta R.T. 0.02 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 84 Resp: 1818

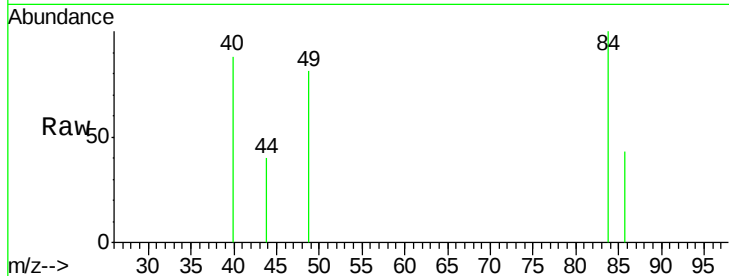
Ion Ratio Lower Upper

84 100

49 81.2 94.0 141.0#

51 0.0 29.0 43.4#

86 43.0 49.8 74.6#

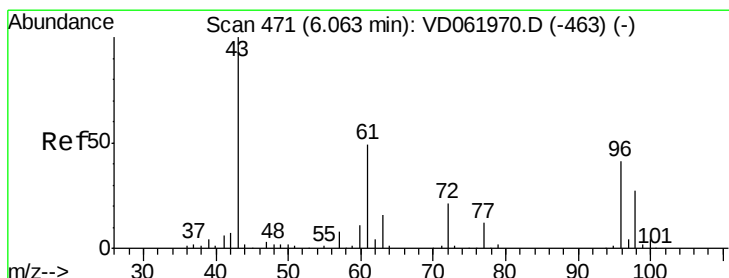
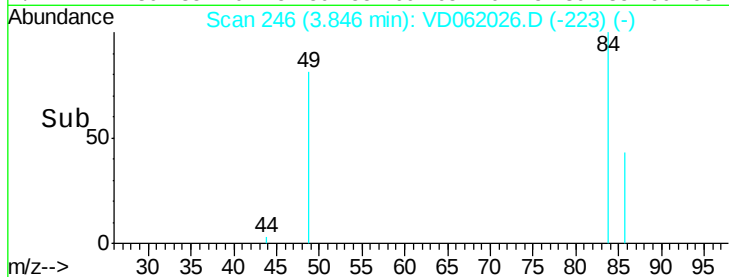
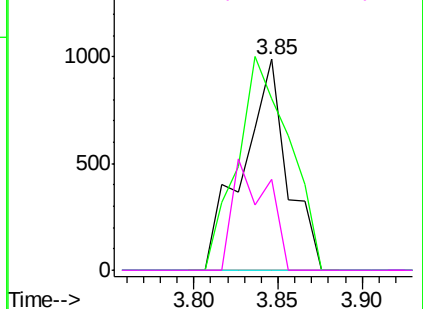


Abundance Ion 83.95 (83.65 to 84.65): VDC

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



#25

2-Butanone

Concen: 5.138 ug/l

RT: 6.09 min Scan# 474

Delta R.T. 0.01 min

Lab File: VD062026.D

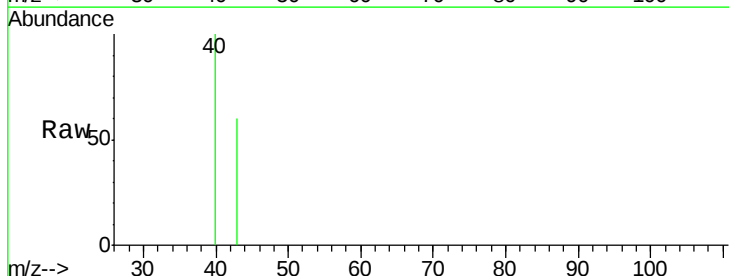
Acq: 25 Apr 2019 7:43

Tgt Ion: 43 Resp: 1052

Ion Ratio Lower Upper

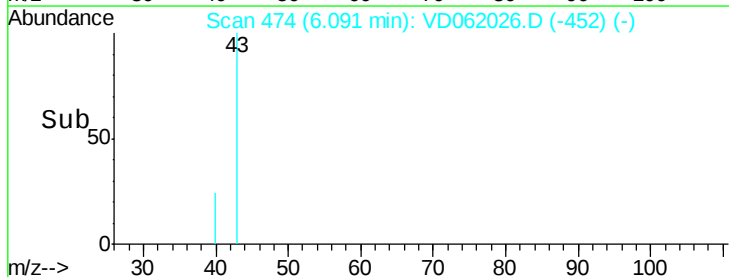
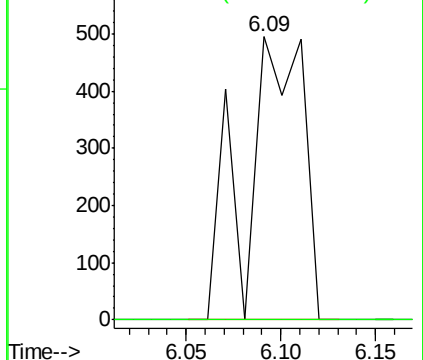
43 100

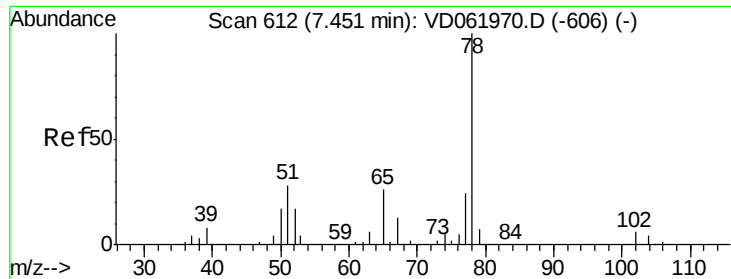
72 0.0 16.2 24.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

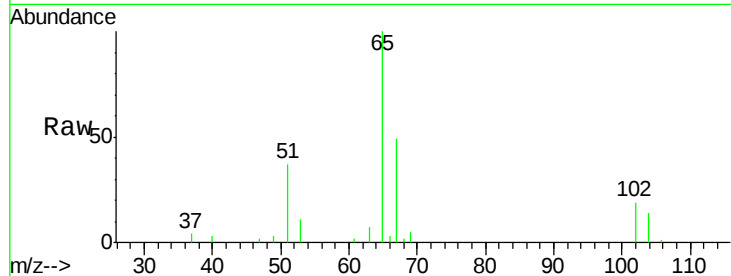
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 65 Resp: 61000

Ion Ratio Lower Upper

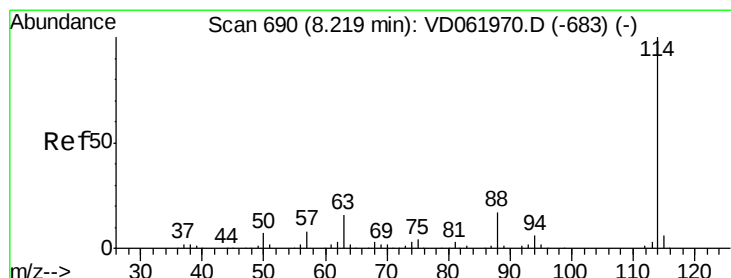
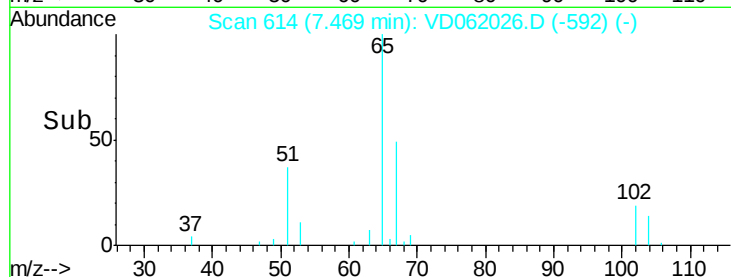
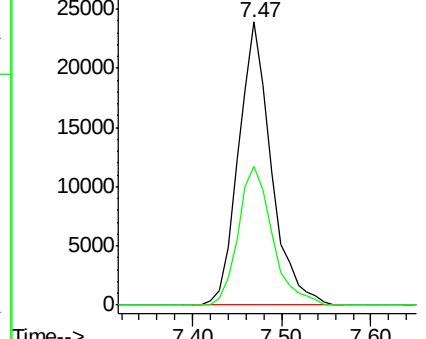
65 100

67 48.9 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: 8.24 min Scan# 692

Delta R.T. 0.01 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

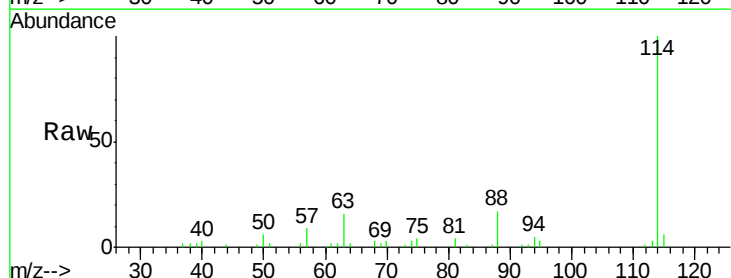
Tgt Ion: 114 Resp: 172058

Ion Ratio Lower Upper

114 100

63 16.2 0.0 32.4

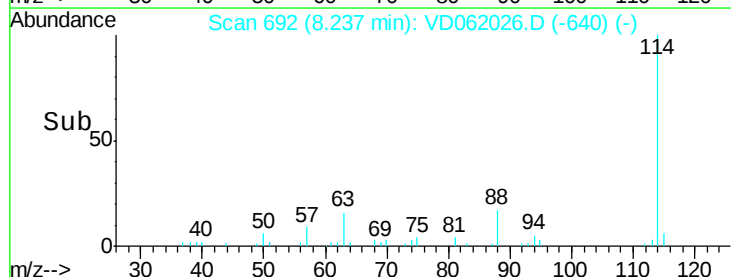
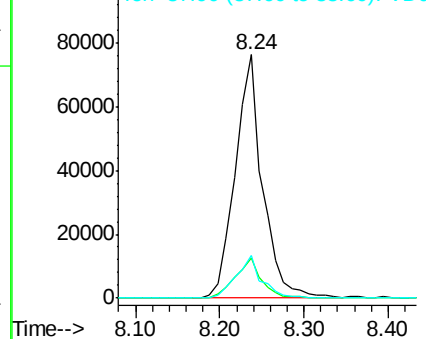
88 17.3 0.0 33.6

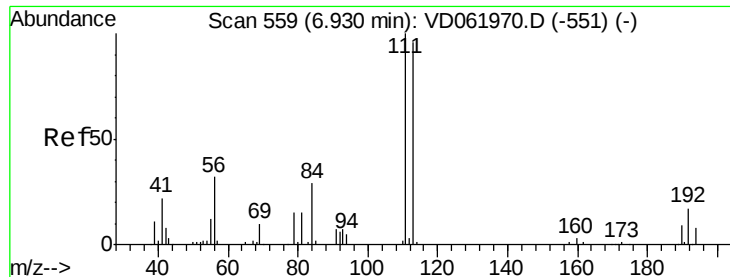


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

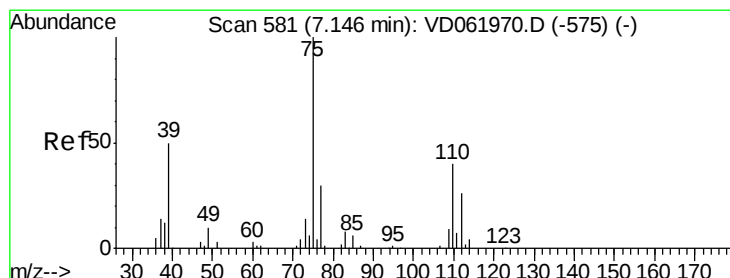
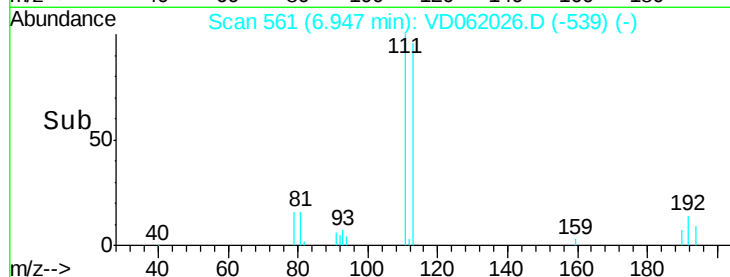
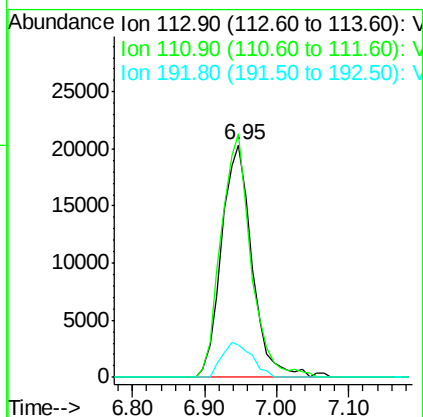
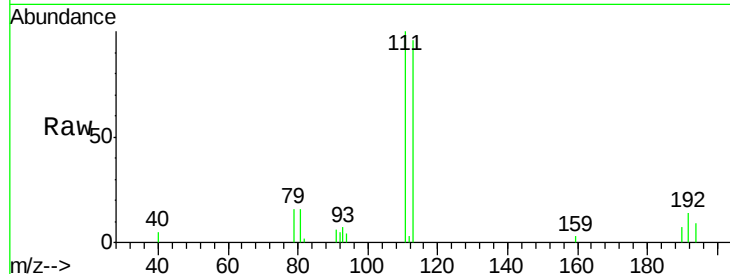




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.95 min Scan# 561
 Delta R.T. 0.01 min
 Lab File: VD062026.D
 Acq: 25 Apr 2019 7:43

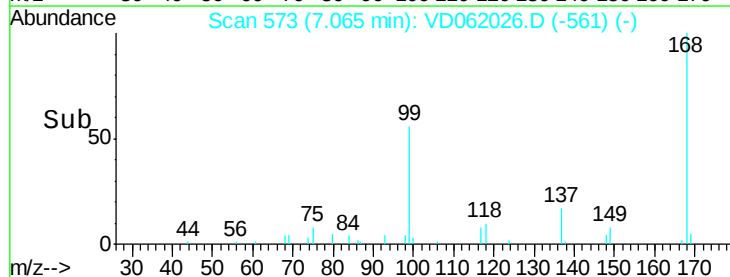
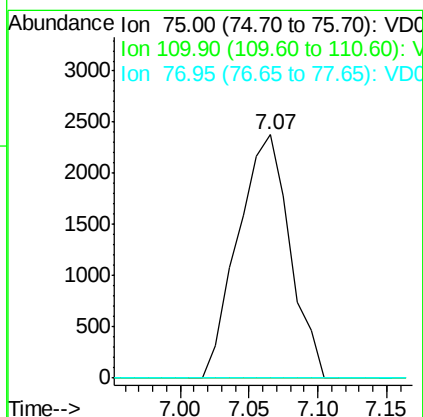
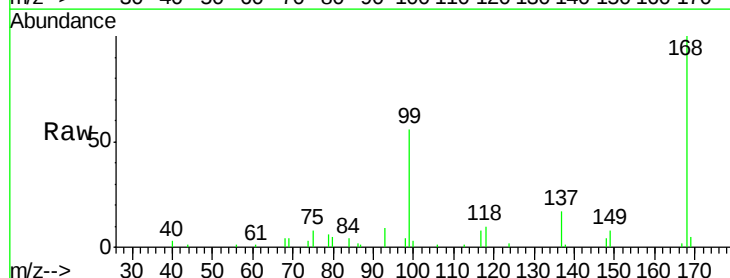
Instrument :
 MSVOA_D
 ClientSampled :

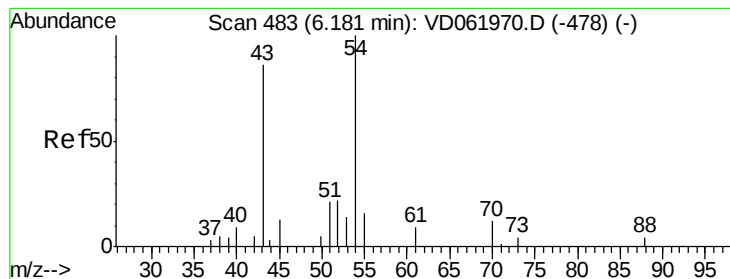
Tot Ion:113 Resp: 59677
 Ion Ratio Lower Upper
 113 100
 111 104.7 78.5 117.7
 192 14.2 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 4.636 ug/l
 RT: 7.07 min Scan# 573
 Delta R.T. -0.09 min
 Lab File: VD062026.D
 Acq: 25 Apr 2019 7:43

Tgt Ion: 75 Resp: 6215
 Ion Ratio Lower Upper
 75 100
 110 0.0 19.1 57.1#
 77 0.0 25.6 38.4#





#37

Ethyl Acetate

Concen: 1.842 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.10 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

Instrument :

MSVOA_D

ClientSampleId :

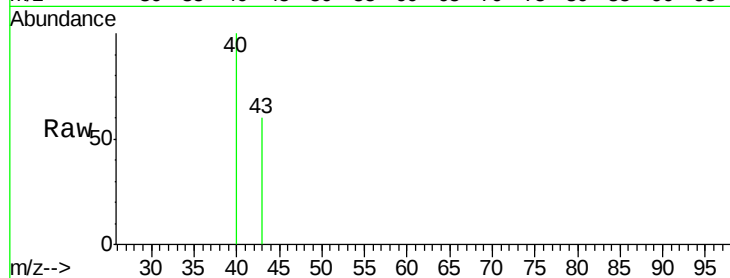
Tot Ion: 43 Resp: 1052

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

6.09

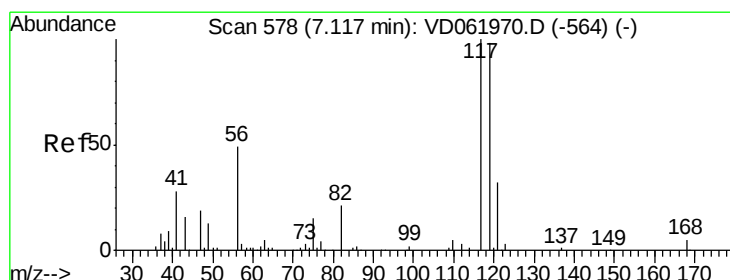
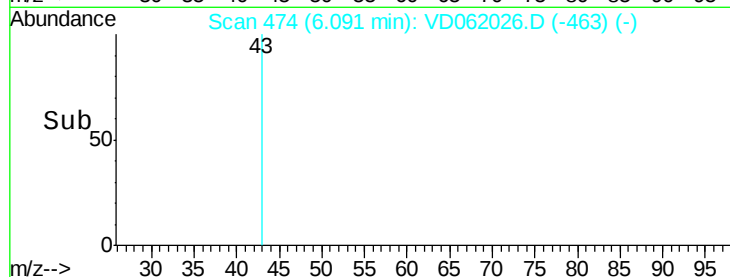
400

200

0

6.05 6.10 6.15

Time-->



#38

Carbon Tetrachloride

Concen: 4.839 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.07 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

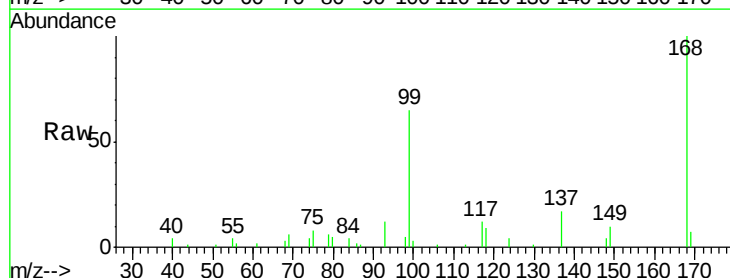
Tgt Ion: 117 Resp: 8220

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

7.06

4000

3000

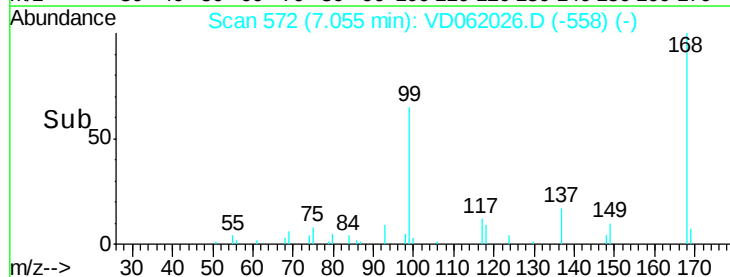
2000

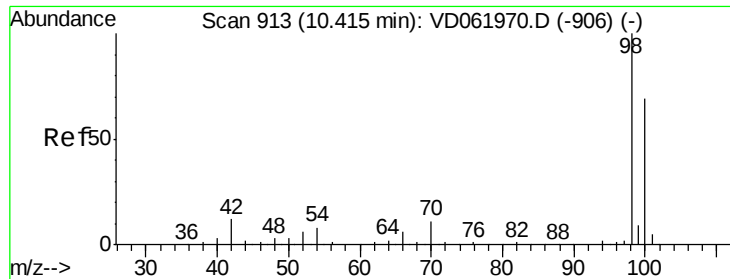
1000

0

6.95 7.00 7.05 7.10 7.15

Time-->

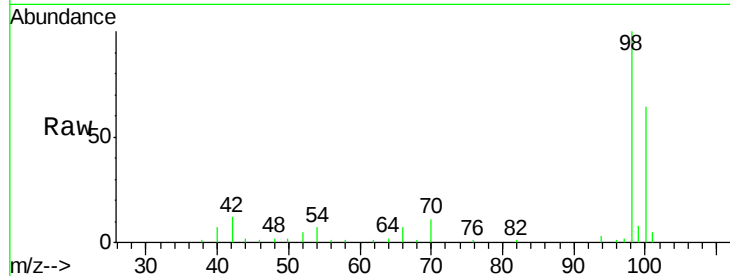




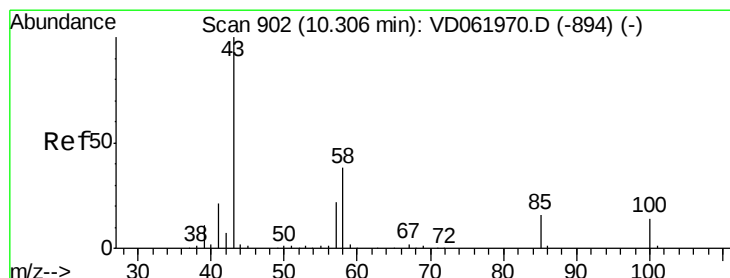
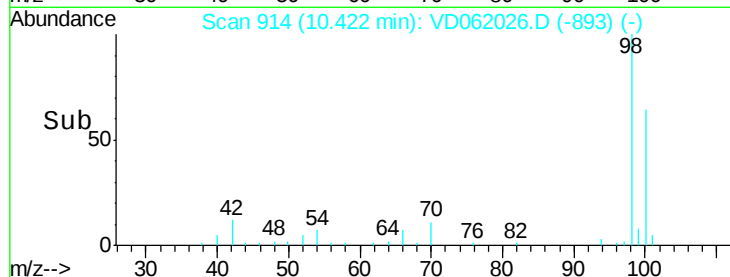
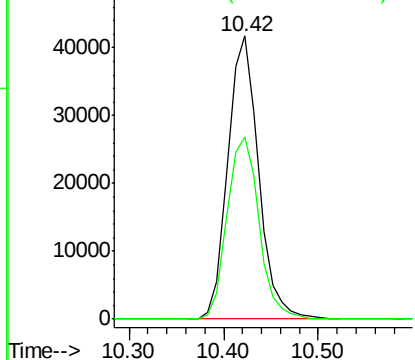
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD062026.D
Acq: 25 Apr 2019 7:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 93660
Ion Ratio Lower Upper
98 100
100 64.3 53.8 80.8

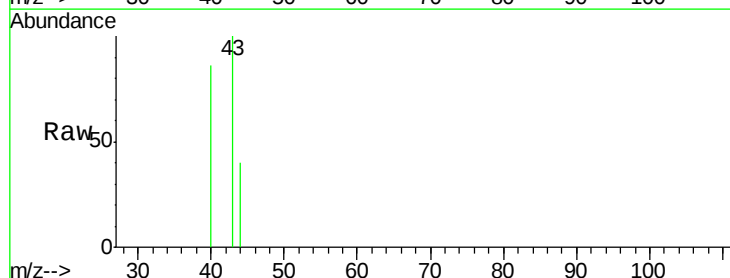


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

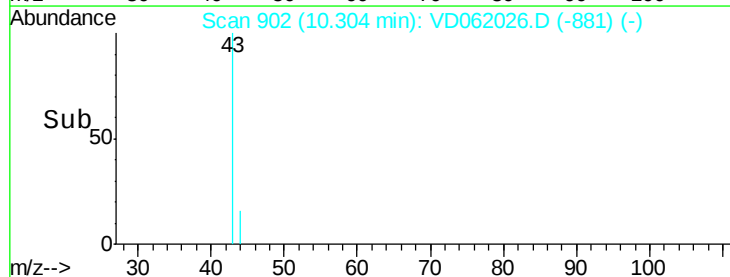
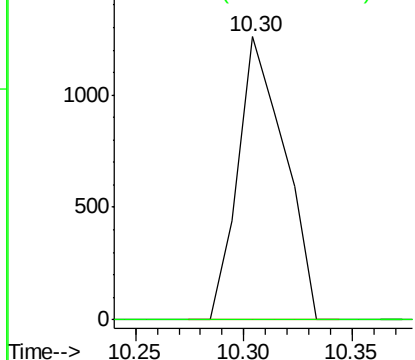


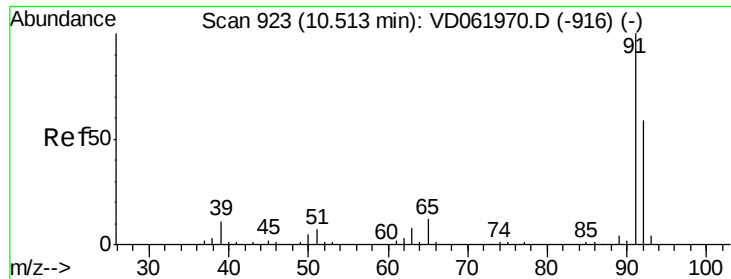
#51
4-Methyl-2-Pentanone
Concen: 3.728 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.00 min
Lab File: VD062026.D
Acq: 25 Apr 2019 7:43

Tgt Ion: 43 Resp: 1903
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





#52

Toluene

Concen: 1.359 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.01 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

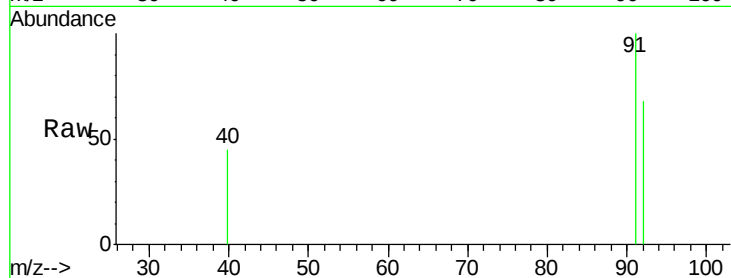
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 2876

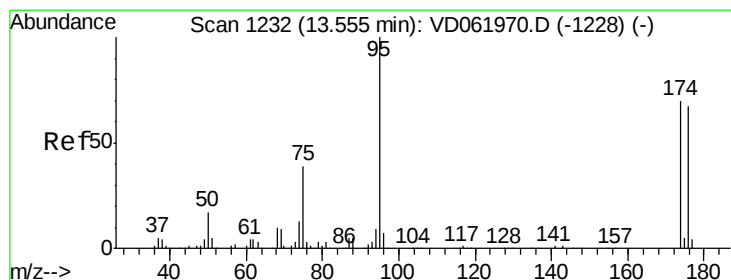
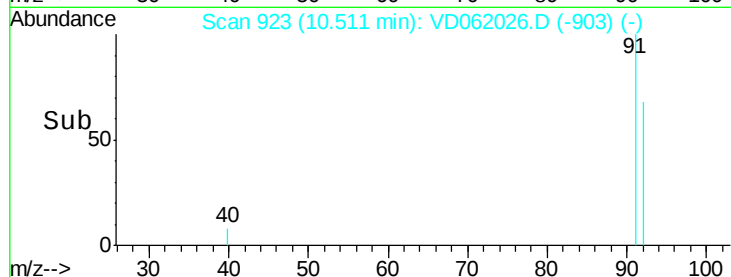
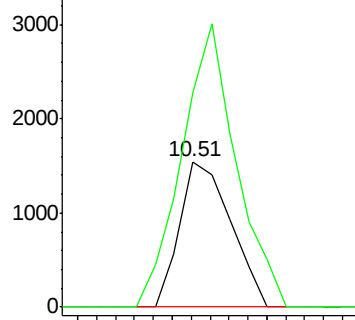
Ion Ratio Lower Upper

92 100

91 147.5 136.6 204.8



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



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.00 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

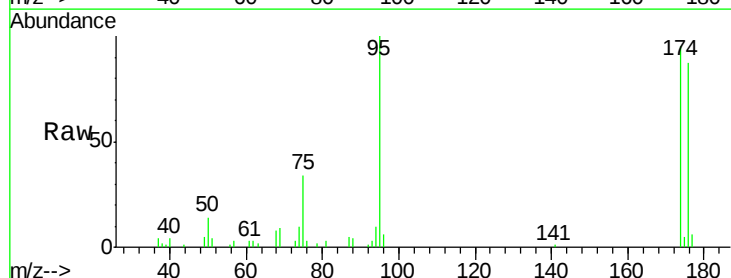
Tgt Ion: 95 Resp: 48133

Ion Ratio Lower Upper

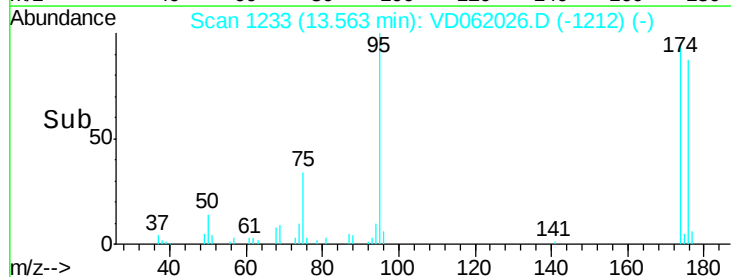
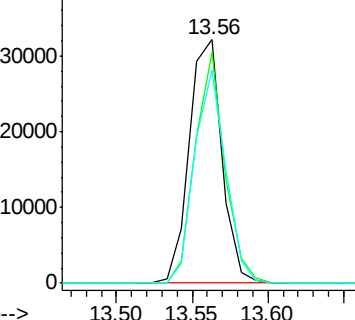
95 100

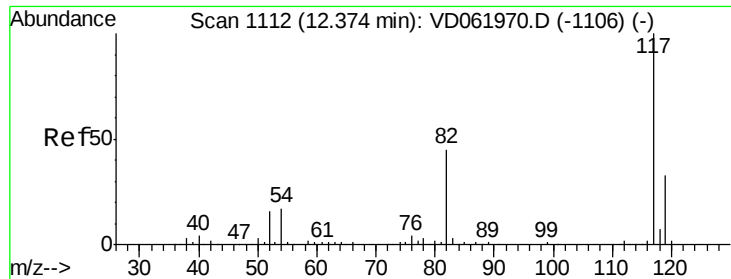
174 95.0 0.0 181.8

176 87.5 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

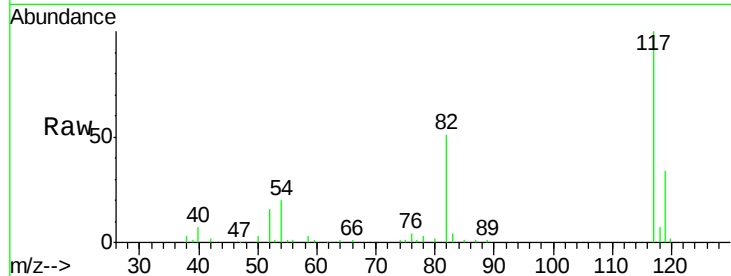




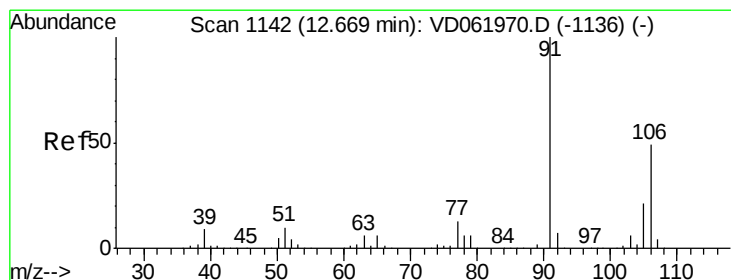
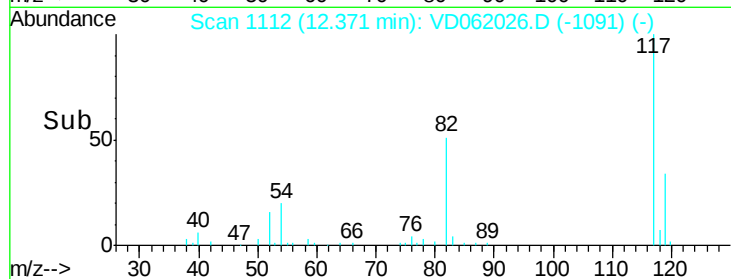
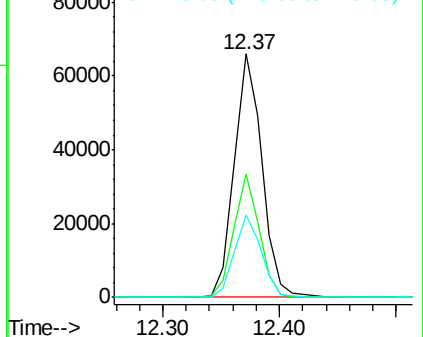
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VD062026.D
Acq: 25 Apr 2019 7:43

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 108630
Ion Ratio Lower Upper
117 100
82 50.8 36.2 54.2
119 33.6 26.2 39.4

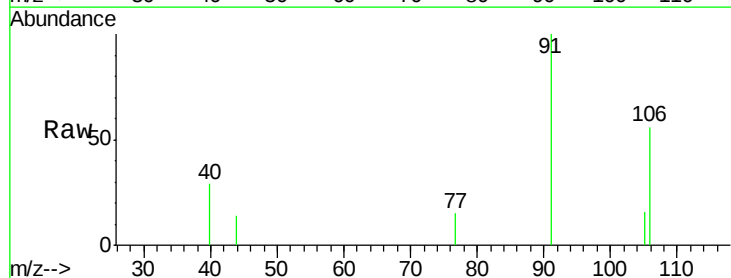


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

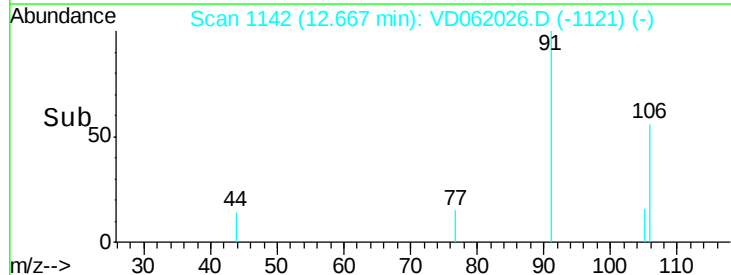
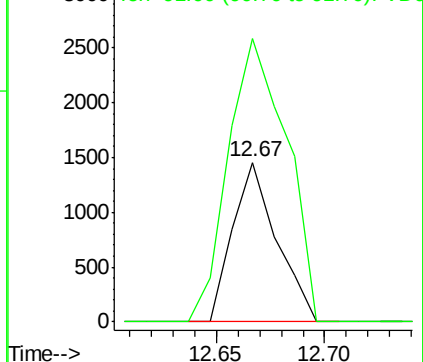


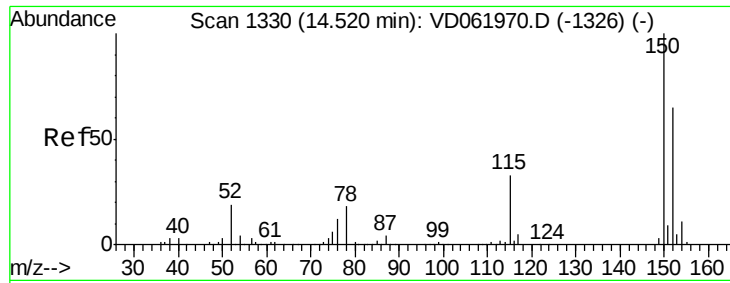
#68
m/p-Xylenes
Concen: 1.709 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD062026.D
Acq: 25 Apr 2019 7:43

Tgt Ion:106 Resp: 2069
Ion Ratio Lower Upper
106 100
91 177.4 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. -0.01 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

Instrument :

MSVOA_D

ClientSampleId :

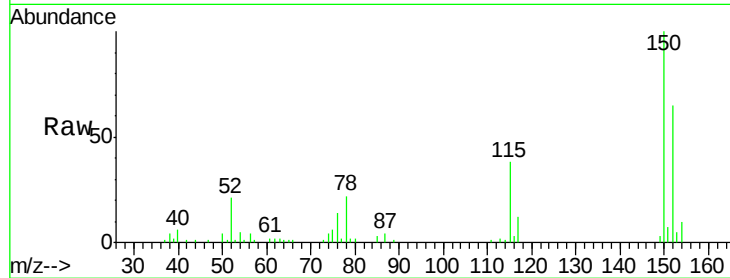
Tot Ion:152 Resp: 45906

Ion Ratio Lower Upper

152 100

115 58.0 30.9 92.7

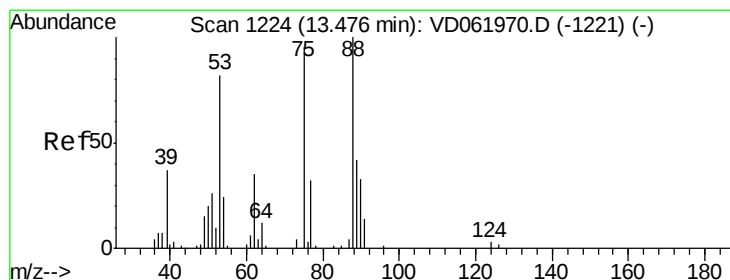
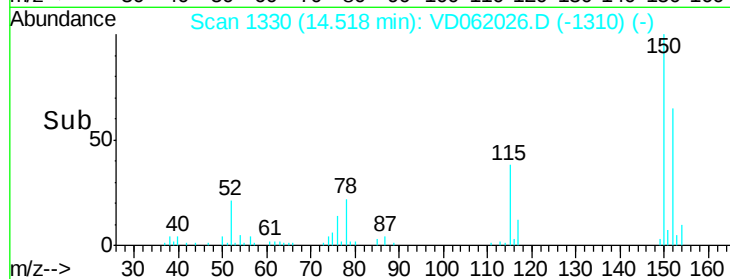
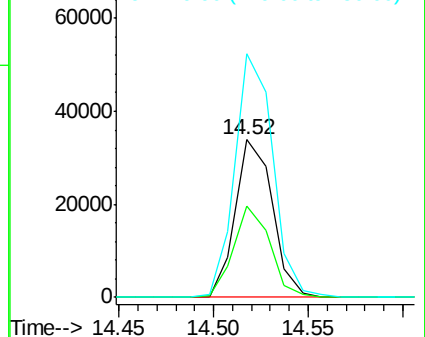
150 154.7 0.0 314.8



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: 101.980 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.07 min

Lab File: VD062026.D

Acq: 25 Apr 2019 7:43

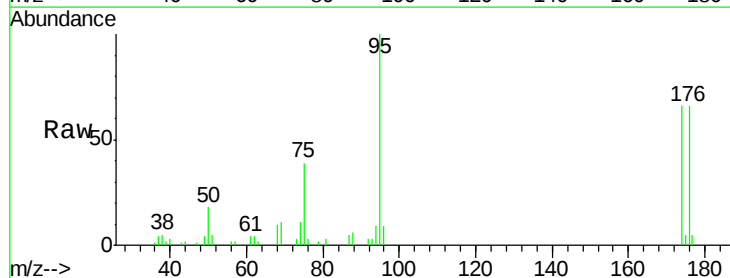
Tgt Ion: 75 Resp: 18015

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

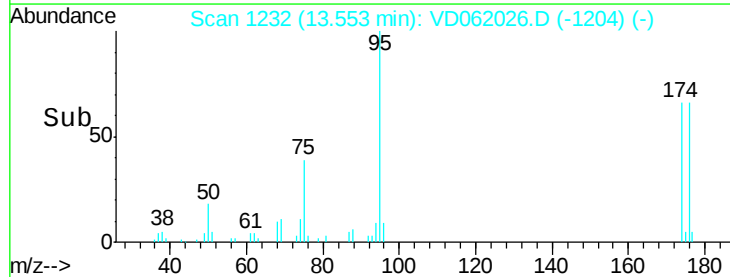
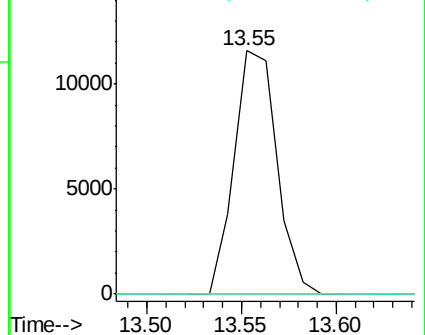
89 0.0 35.0 52.6#

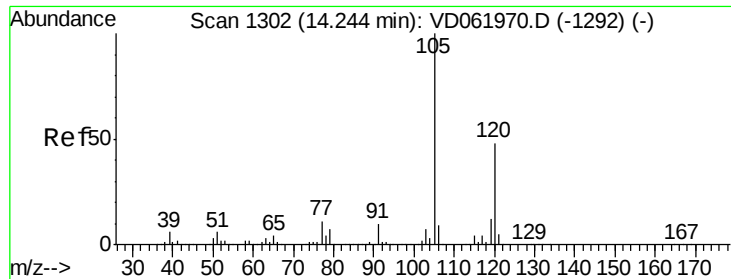


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#84
 1,2,4-Trimethylbenzene
 Concen: 1.013 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD062026.D
 Acq: 25 Apr 2019 7:43

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:105 Resp: 2361
 Ion Ratio Lower Upper
 105 100
 120 31.9 23.1 69.2

