

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040219\
 Data File : VD061526.D
 Acq On : 2 Apr 2019 20:44
 Operator : VA/AP
 Sample : K2178-08RE
 Misc : 5.48g/5ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 03 01:55:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 28 09:22:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	389064	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	8.21	114	722472	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	447287	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.51	152	118924	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	216530	65.15	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	130.30%	
35) Dibromofluoromethane	6.92	113	294135	53.28	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	106.56%	
50) Toluene-d8	10.41	98	589574	44.52	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	89.04%	
62) 4-Bromofluorobenzene	13.55	95	162224	31.95	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	63.90%	

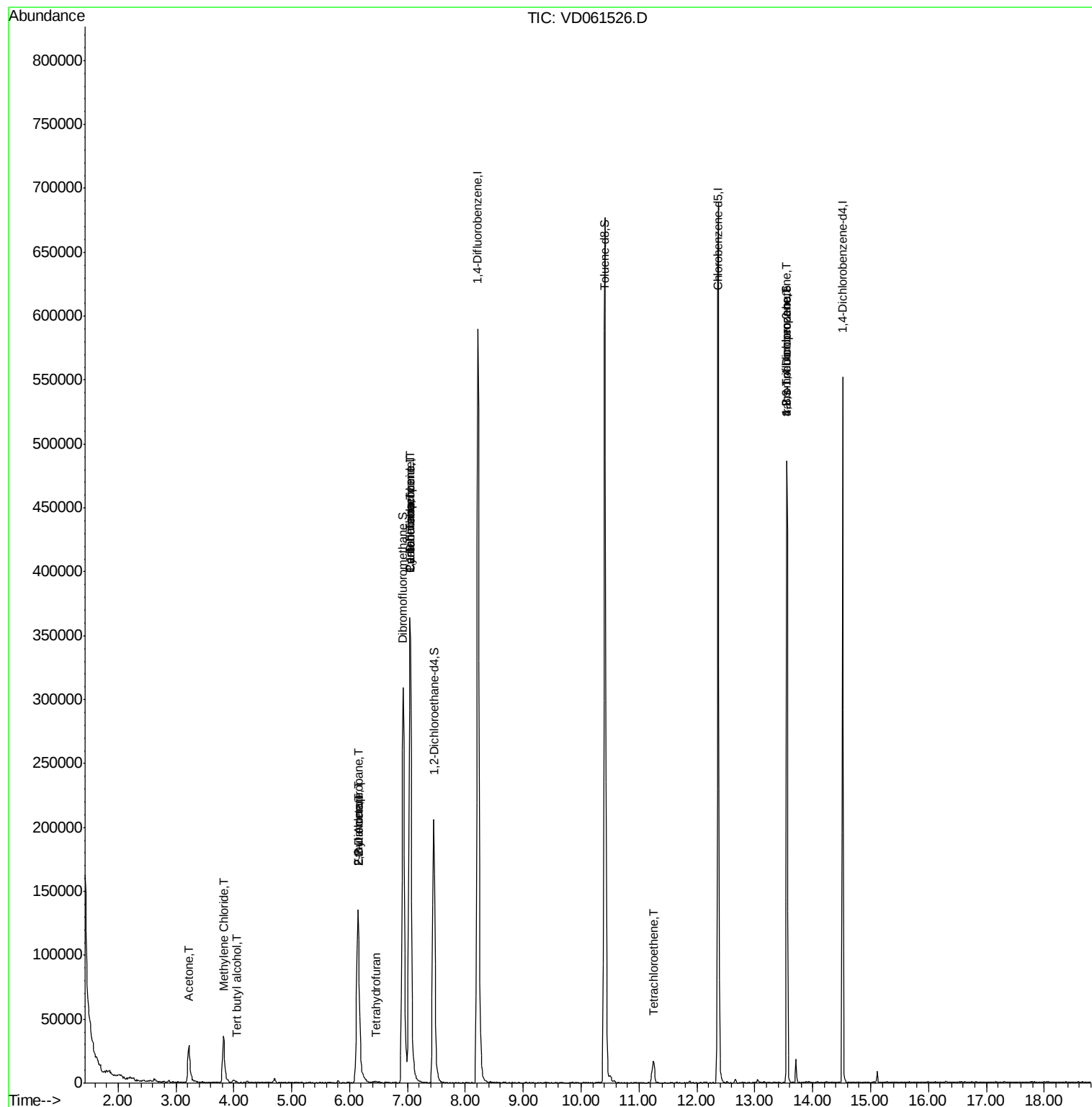
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.05	59	983	4.749	ug/l #	76
16) Acetone	3.22	43	63604	74.445	ug/l	97
20) Methylene Chloride	3.82	84	27783	4.040	ug/l	98
25) 2-Butanone	6.15	43	9021	8.394	ug/l #	54
26) 2,2-Dichloropropane	6.14	77	10399	1.806	ug/l #	50
29) Tetrahydrofuran	6.47	42	802	1.540	ug/l #	30
31) Cyclohexane	7.04	56	6570	1.148	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	28057	4.450	ug/l #	45
37) Ethyl Acetate	6.15	43	9021	3.345	ug/l #	1
38) Carbon Tetrachloride	7.04	117	37478	5.172	ug/l #	14
64) Tetrachloroethene	11.26	164	3560	1.014	ug/l #	88
76) 1,2,3-Trichloropropane	13.55	75	51175	29.790	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.55	75	61084	116.620	ug/l #	18

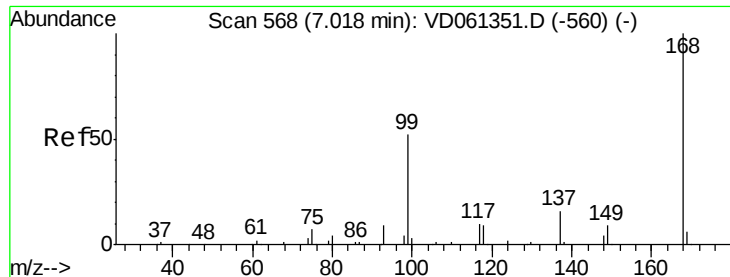
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD040219\
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QLast Update : Thu Mar 28 09:22:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.03 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

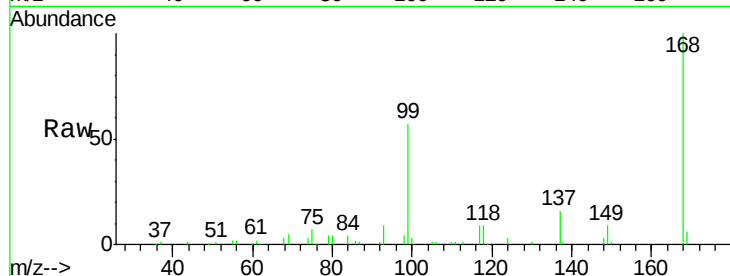
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 389064

Ion Ratio Lower Upper

168 100

99 56.6 43.1 64.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

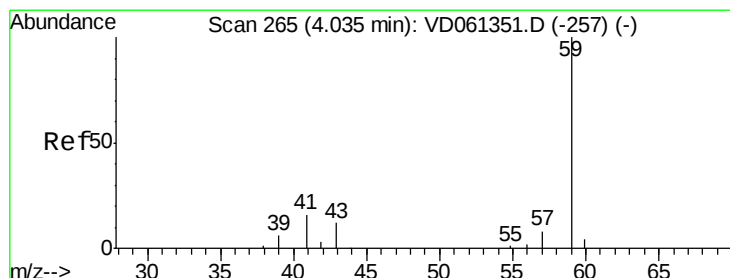
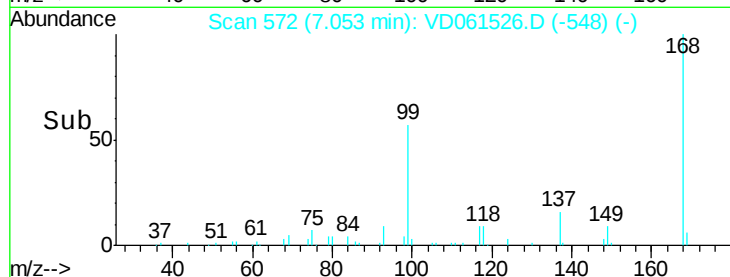
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 4.749 ug/l

RT: 4.05 min Scan# 267

Delta R.T. 0.01 min

Lab File: VD061526.D

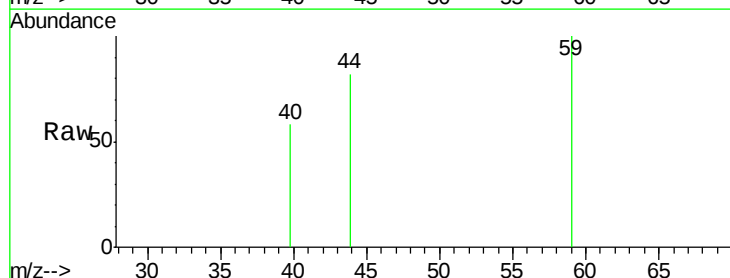
Acq: 2 Apr 2019 20:44

Tgt Ion: 59 Resp: 983

Ion Ratio Lower Upper

59 100

57 0.0 6.7 10.1#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.05

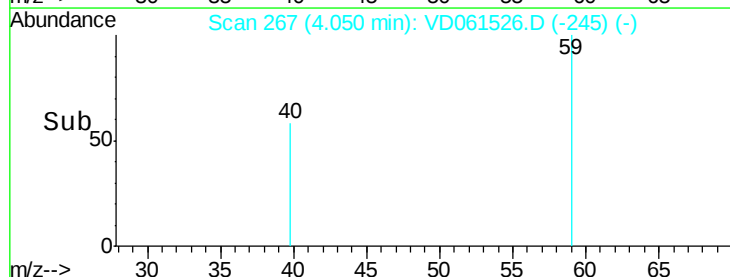
600

400

200

0

Time-->





#16

Acetone

Concen: 74.445 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.02 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

Instrument :

MSVOA_D

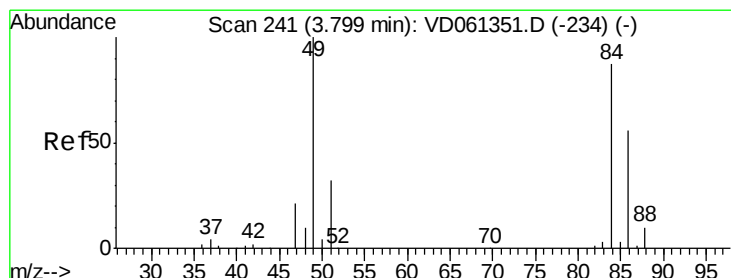
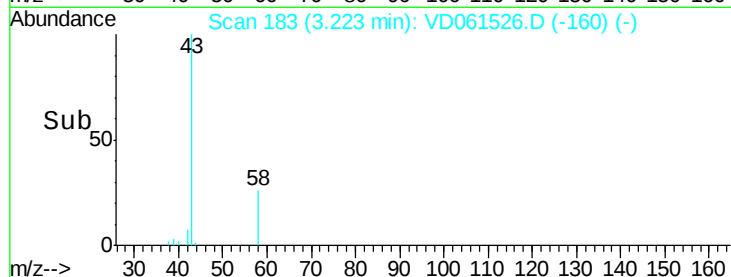
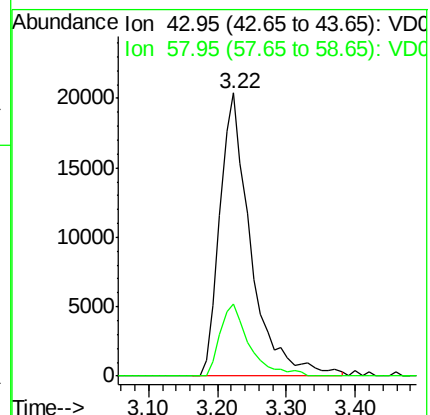
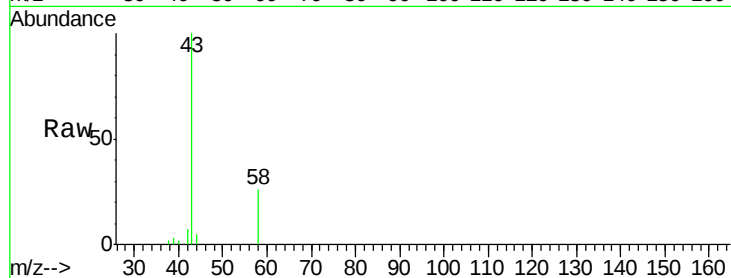
ClientSampleId :

Tot Ion: 43 Resp: 63604

Ion Ratio Lower Upper

43 100

58 25.5 21.5 32.3



#20

Methylene Chloride

Concen: 4.040 ug/l

RT: 3.82 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

Tgt Ion: 84 Resp: 27783

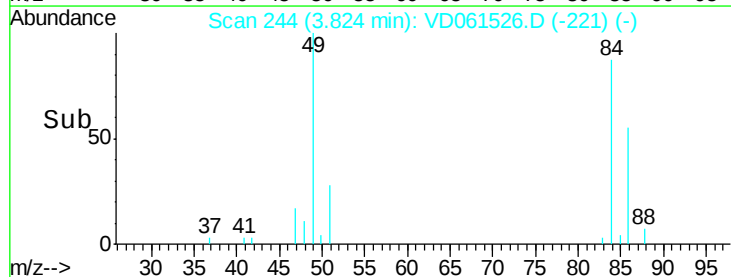
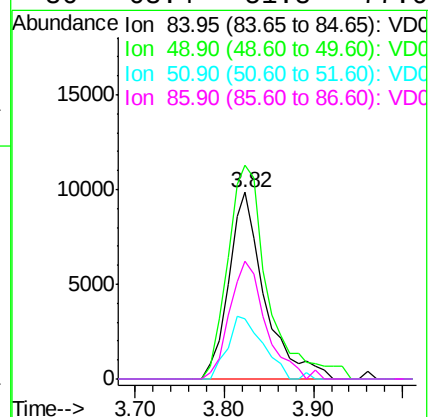
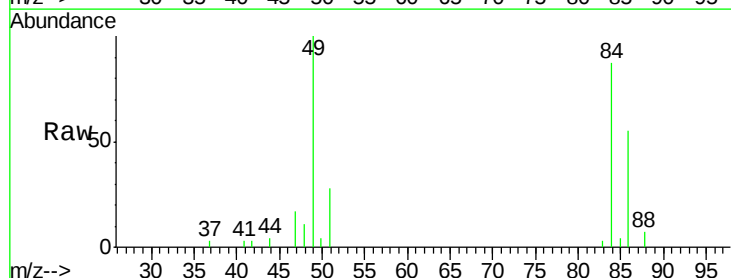
Ion Ratio Lower Upper

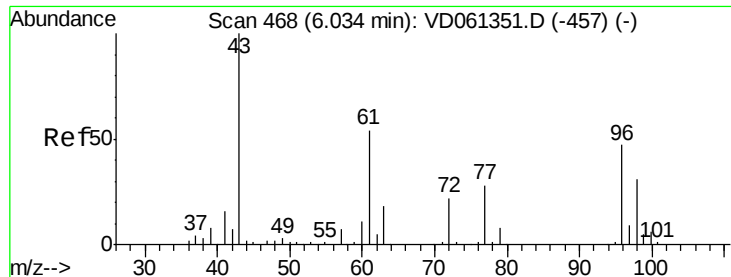
84 100

49 114.7 91.8 137.8

51 32.3 29.8 44.8

86 63.4 51.8 77.6





#25

2-Butanone

Concen: 8.394 ug/l

RT: 6.15 min Scan# 480

Delta R.T. 0.11 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

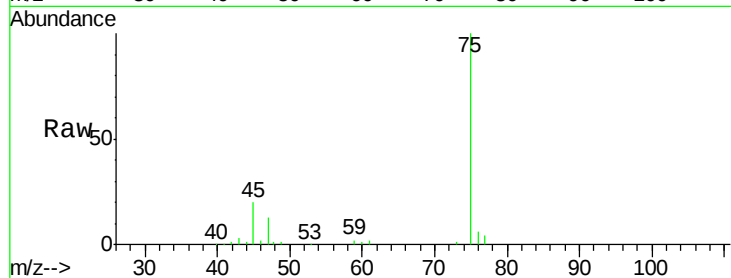
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 9021

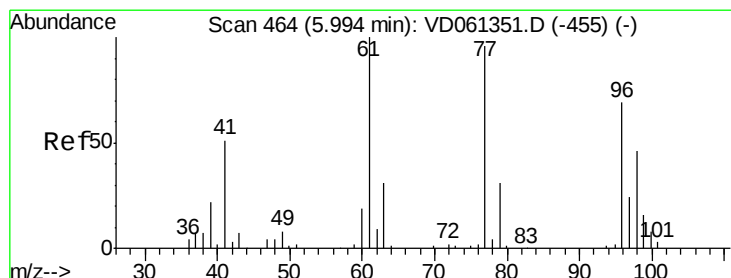
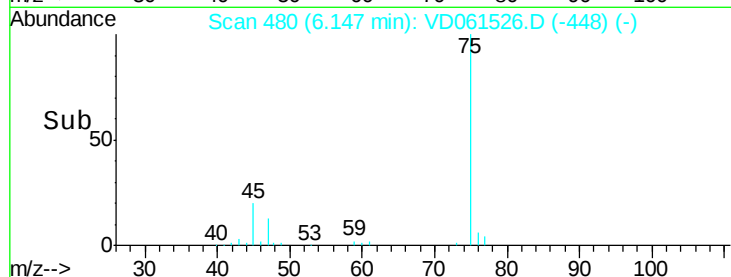
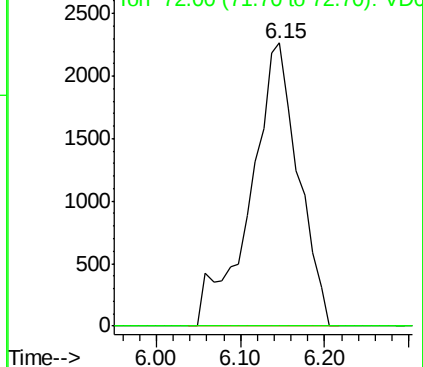
Ion Ratio Lower Upper

43 100

72 0.0 17.2 25.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 1.806 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.14 min

Lab File: VD061526.D

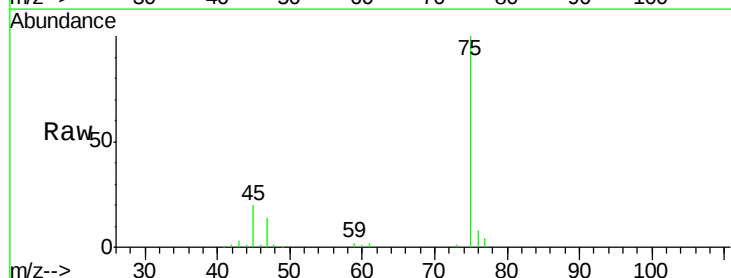
Acq: 2 Apr 2019 20:44

Tgt Ion: 77 Resp: 10399

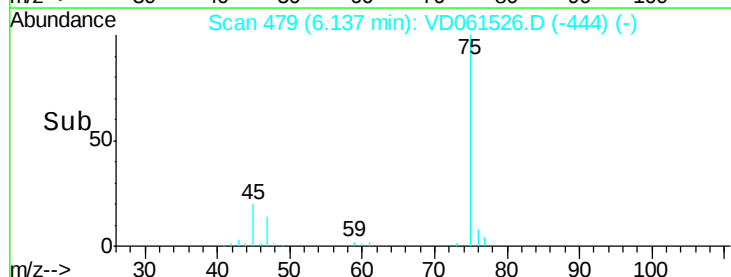
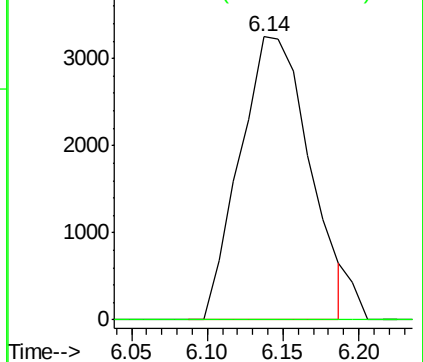
Ion Ratio Lower Upper

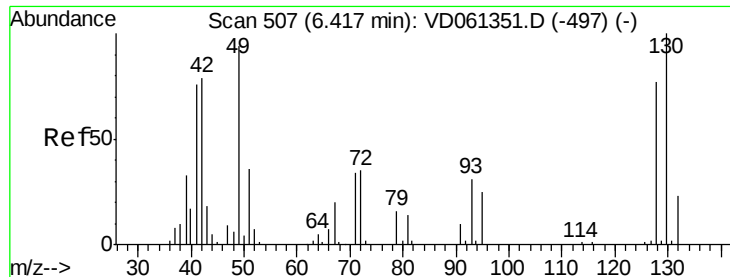
77 100

97 0.0 12.7 38.0#



Abundance Ion 76.95 (76.65 to 77.65): VDC
Ion 96.85 (96.55 to 97.55): VDC





#29

Tetrahydrofuran

Concen: 1.540 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.05 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

Instrument :

MSVOA_D

ClientSampleId :

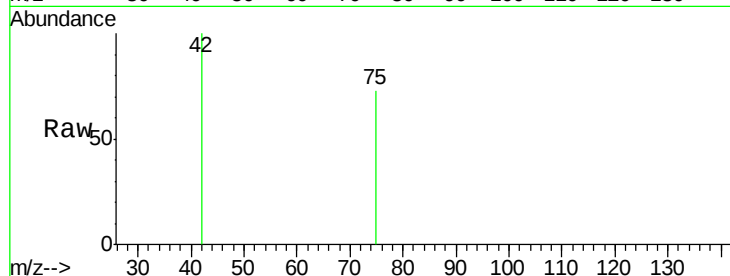
Tot Ion: 42 Resp: 802

Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

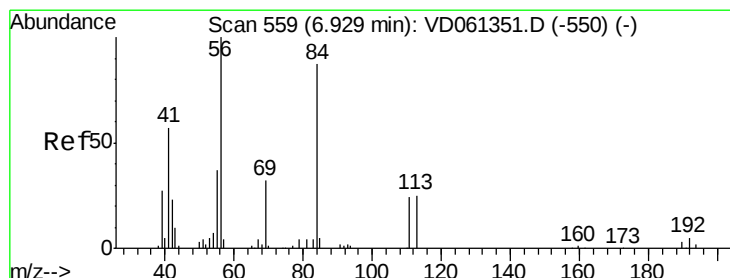
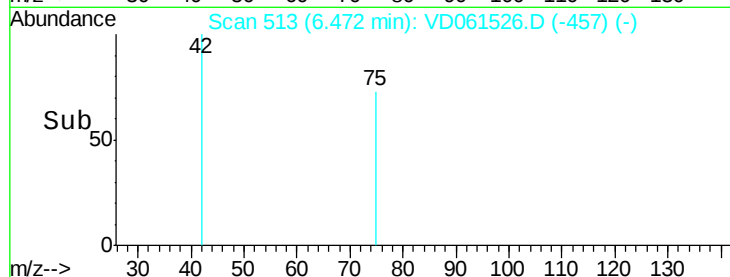
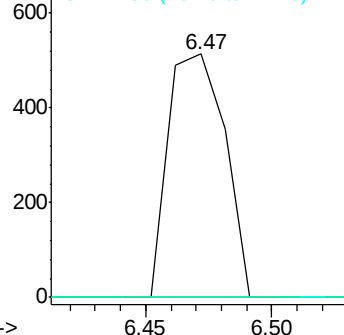
71 0.0 36.7 55.1#



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: 1.148 ug/l

RT: 7.04 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

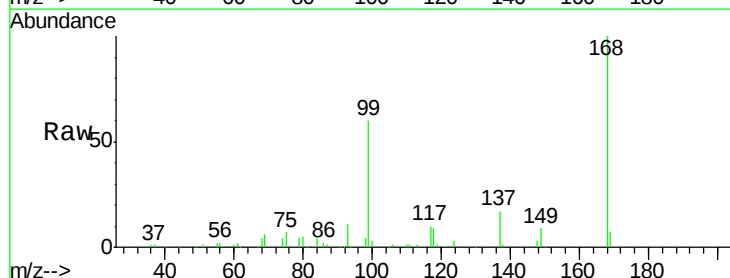
Tgt Ion: 56 Resp: 6570

Ion Ratio Lower Upper

56 100

69 267.7 25.7 38.5#

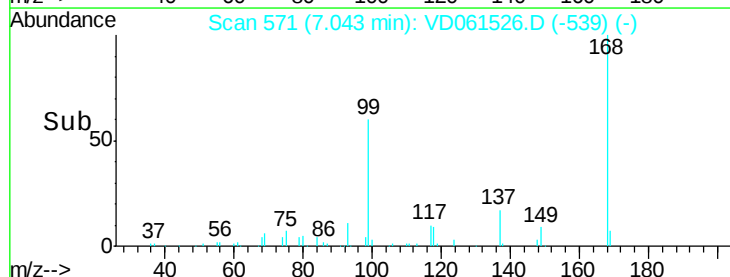
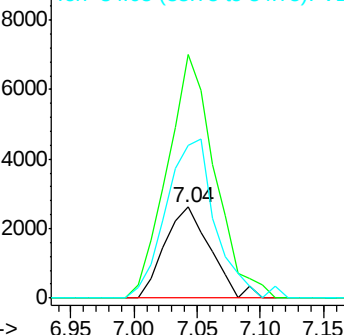
84 168.3 70.6 105.8#

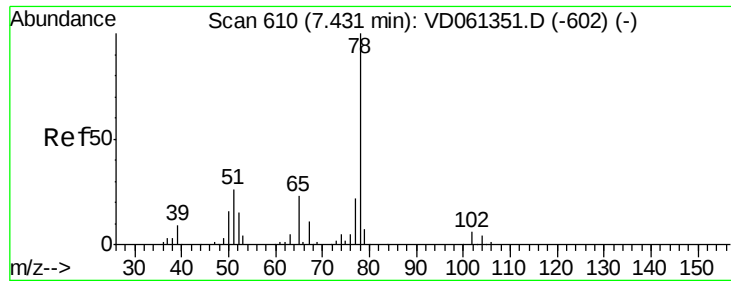


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

Instrument :

MSVOA_D

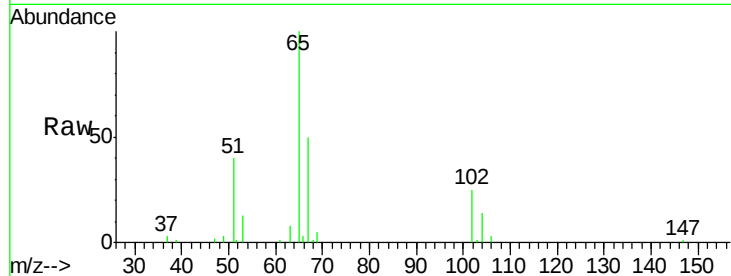
ClientSampleId :

Tot Ion: 65 Resp: 216530

Ion Ratio Lower Upper

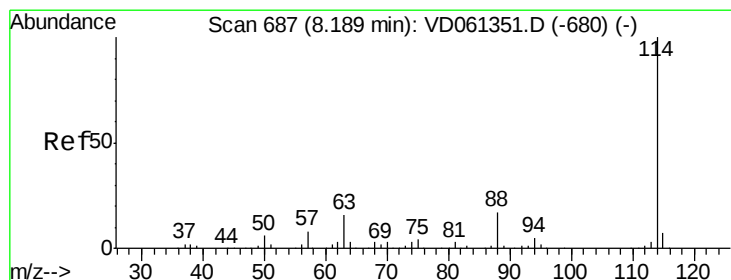
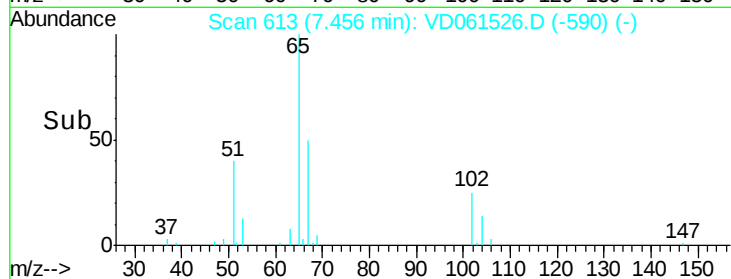
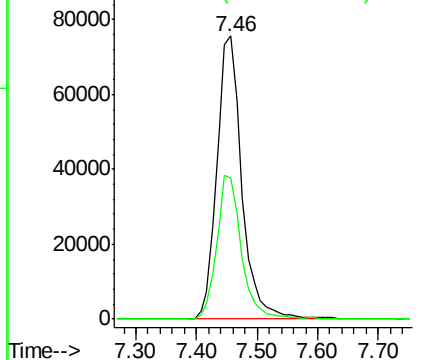
65 100

67 49.9 0.0 99.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. 0.02 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

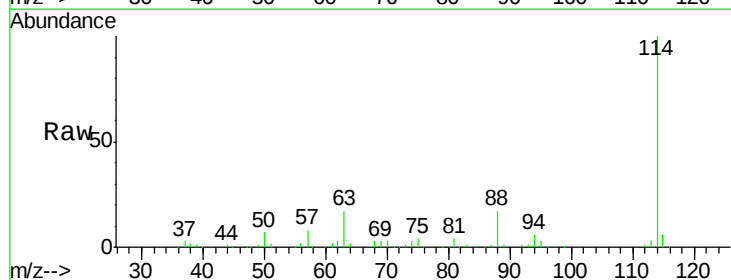
Tgt Ion: 114 Resp: 722472

Ion Ratio Lower Upper

114 100

63 16.6 0.0 31.6

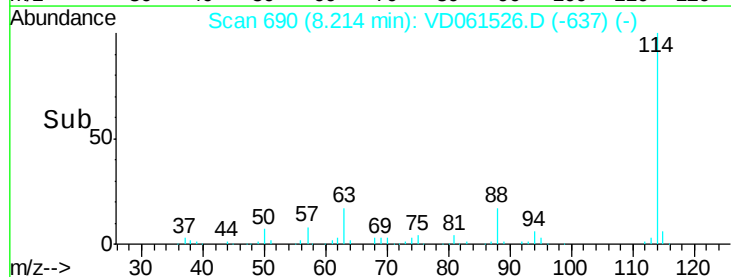
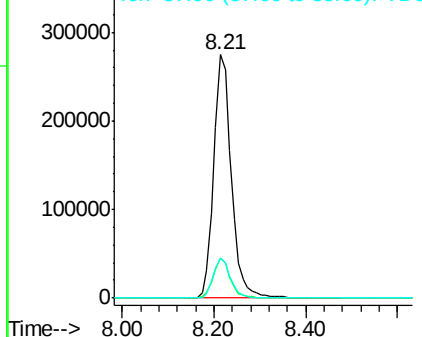
88 16.7 0.0 33.4

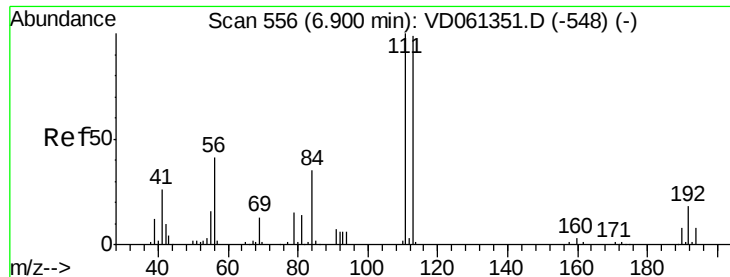


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

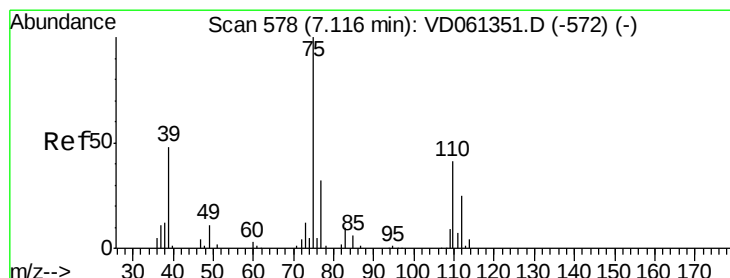
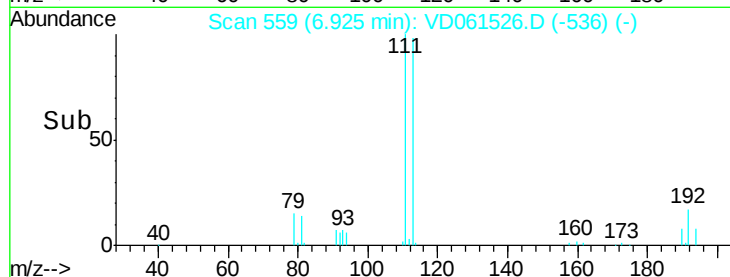
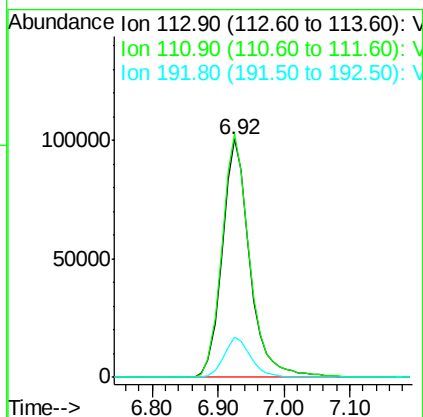
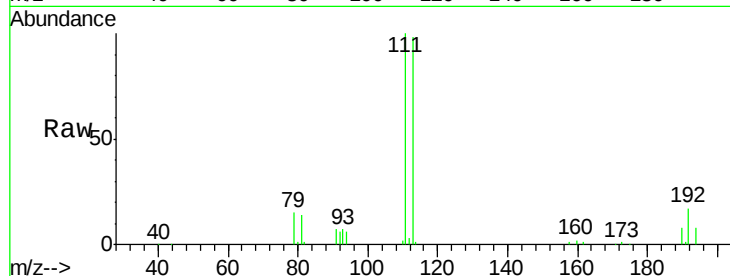




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 6.92 min Scan# 559
Delta R.T. 0.02 min
Lab File: VD061526.D
Acq: 2 Apr 2019 20:44

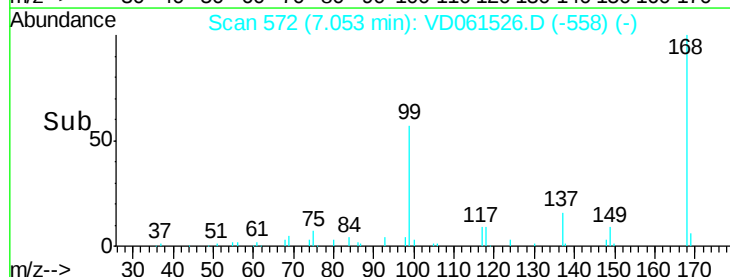
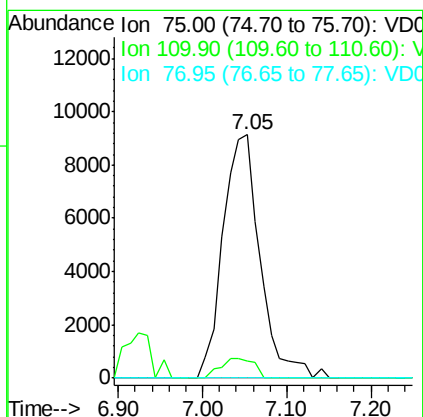
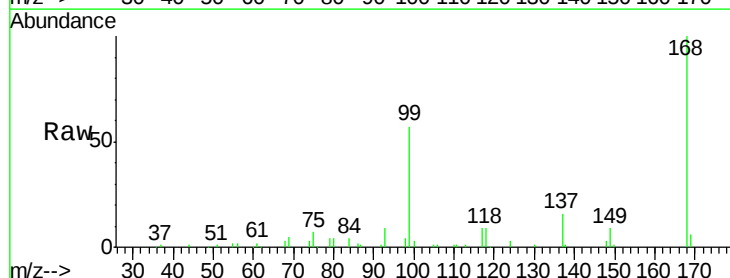
Instrument :
MSVOA_D
ClientSampled :

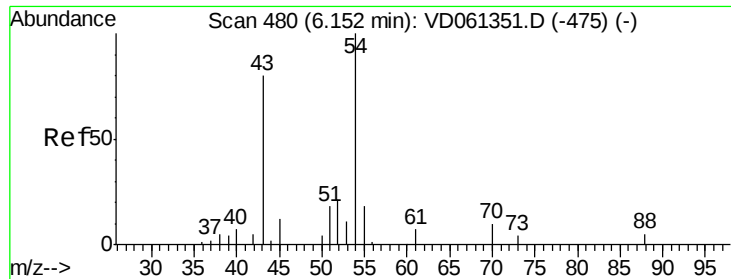
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.0	121.6
192	17.0	14.4	21.6



#36
1,1-Dichloropropene
Concen: 4.450 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.06 min
Lab File: VD061526.D
Acq: 2 Apr 2019 20:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.1	20.4	61.3#
77	0.0	24.9	37.3#





#37

Ethyl Acetate

Concen: 3.345 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.00 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

Instrument :

MSVOA_D

ClientSampleId :

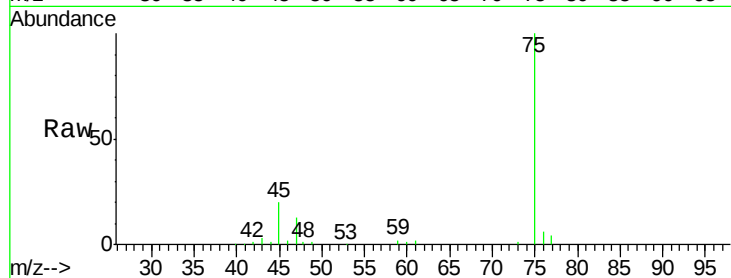
Tot Ion: 43 Resp: 9021

Ion Ratio Lower Upper

43 100

61 94.4 13.8 20.8#

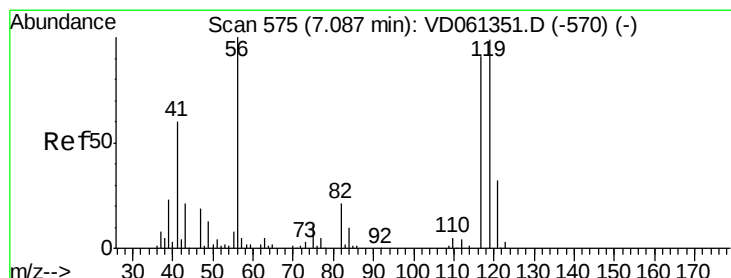
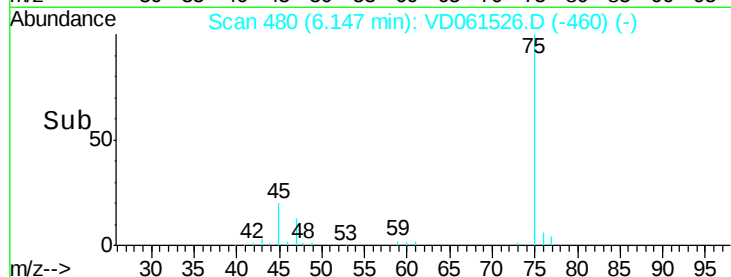
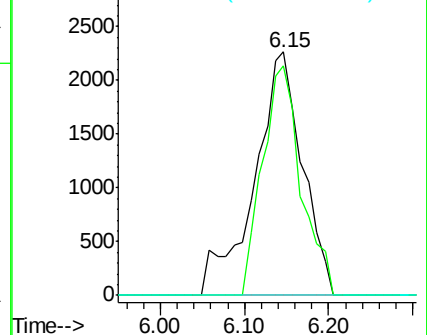
70 0.0 7.8 11.8#



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: 5.172 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.04 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

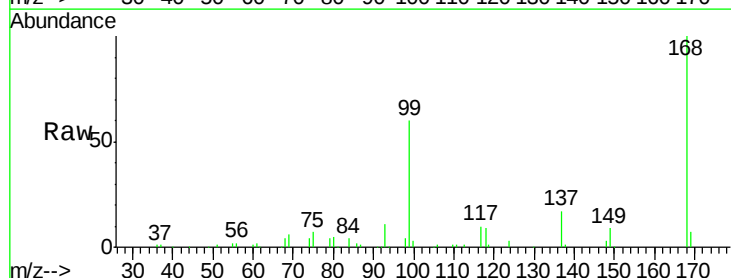
Tgt Ion: 117 Resp: 37478

Ion Ratio Lower Upper

117 100

119 5.5 80.1 120.1#

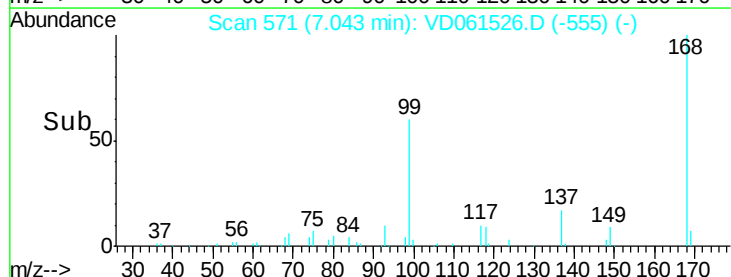
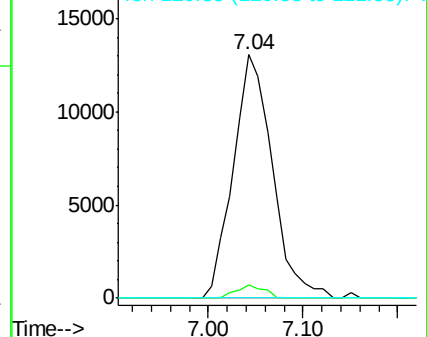
121 0.0 25.6 38.4#

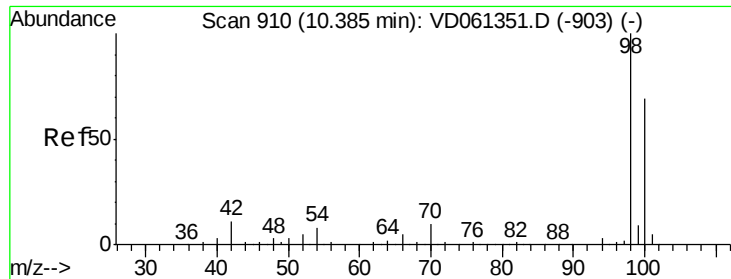


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

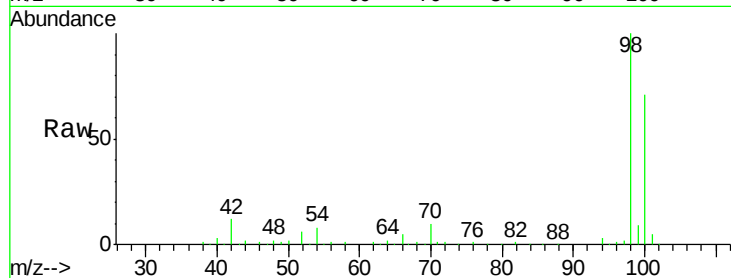




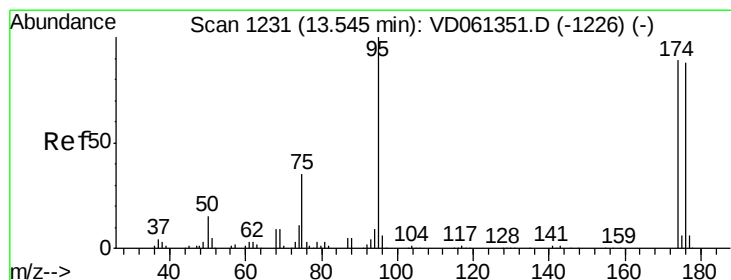
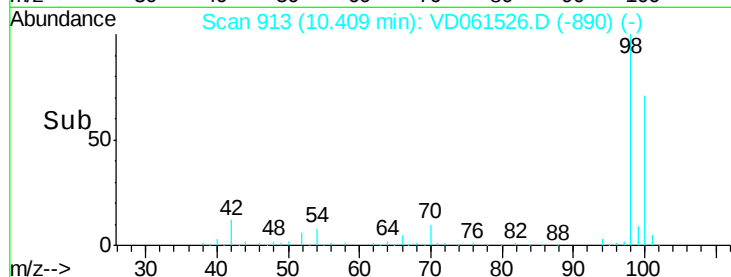
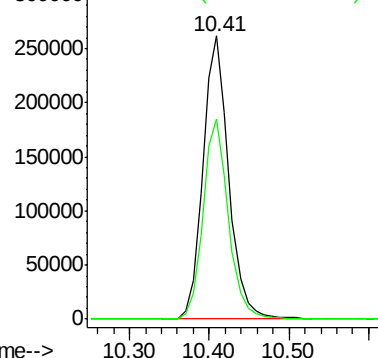
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.02 min
Lab File: VD061526.D
Acq: 2 Apr 2019 20:44

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 589574
Ion Ratio Lower Upper
98 100
100 70.6 56.2 84.2

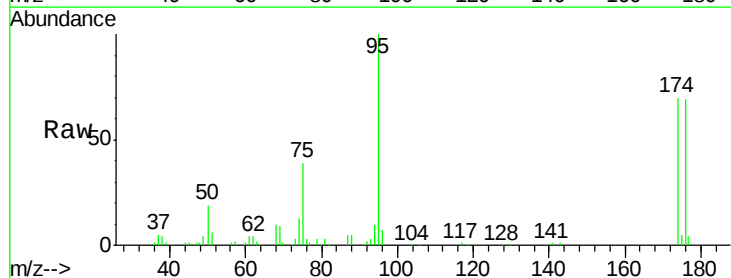


Abundance Ion 98.05 (97.75 to 98.75): VD061351.D (-903) (-)
Ion 100.05 (99.75 to 100.75): VD061351.D (-903) (-)

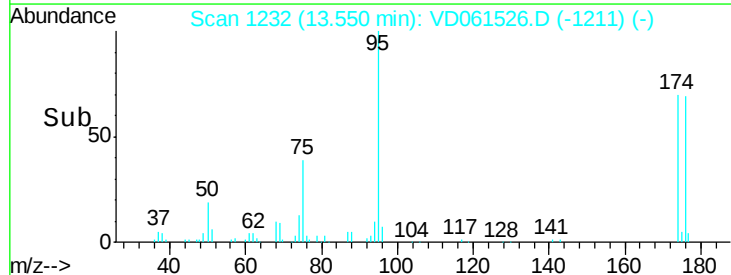
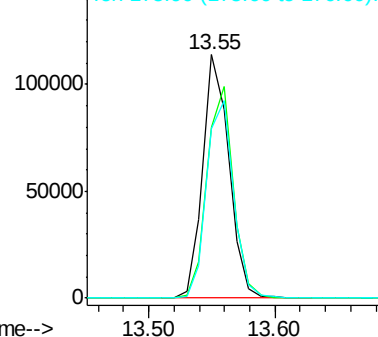


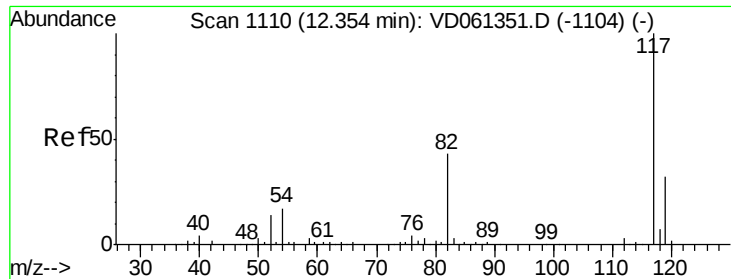
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.55 min Scan# 1232
Delta R.T. 0.01 min
Lab File: VD061526.D
Acq: 2 Apr 2019 20:44

Tgt Ion: 95 Resp: 162224
Ion Ratio Lower Upper
95 100
174 70.2 0.0 178.0
176 69.4 0.0 175.0



Abundance Ion 95.00 (94.70 to 95.70): VD061351.D (-1226) (-)
Ion 173.90 (173.60 to 174.60): VD061351.D (-1226) (-)
Ion 175.90 (175.60 to 176.60): VD061351.D (-1226) (-)

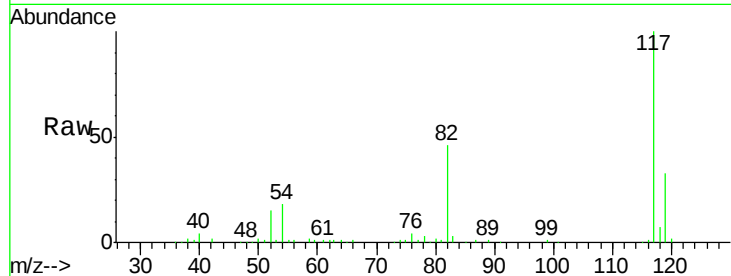




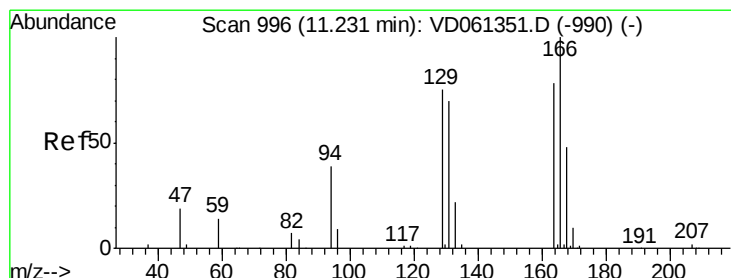
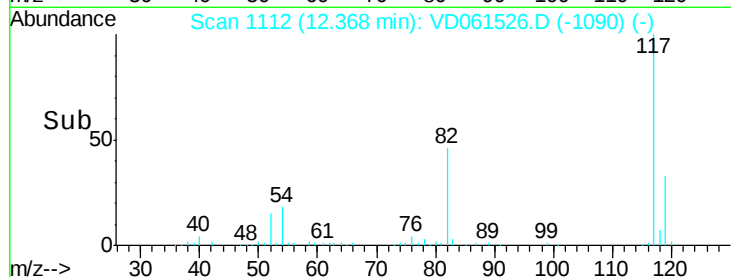
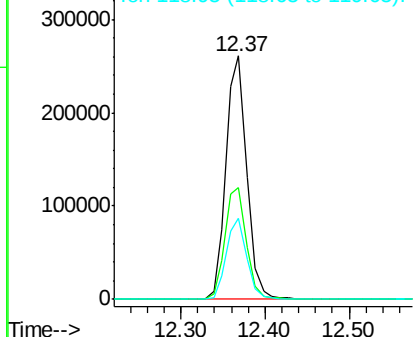
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD061526.D
Acq: 2 Apr 2019 20:44

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 447287
Ion Ratio Lower Upper
117 100
82 46.1 34.4 51.6
119 33.2 25.8 38.6

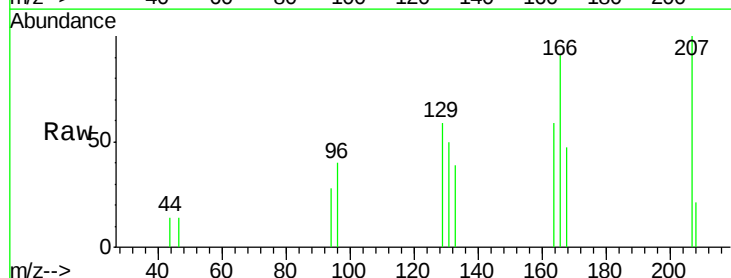


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

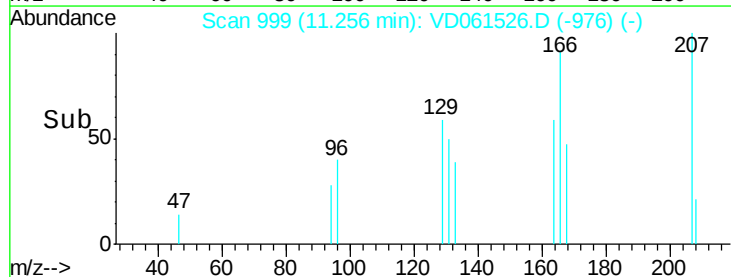
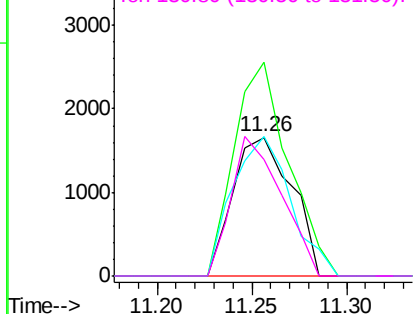


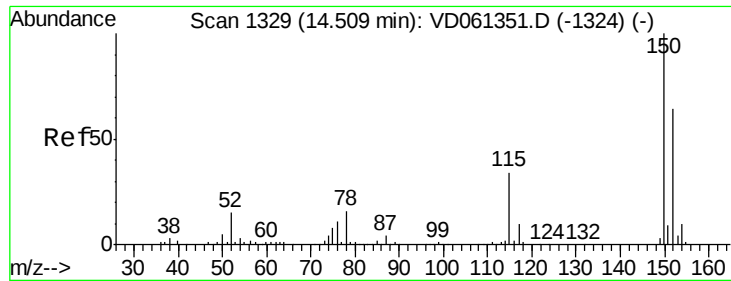
#64
Tetrachloroethene
Concen: 1.014 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.02 min
Lab File: VD061526.D
Acq: 2 Apr 2019 20:44

Tgt Ion:164 Resp: 3560
Ion Ratio Lower Upper
164 100
166 154.1 102.4 153.6#
129 100.2 76.8 115.2
131 84.1 71.8 107.6



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.51 min Scan# 1330

Delta R.T. 0.01 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

Instrument :

MSVOA_D

ClientSampleId :

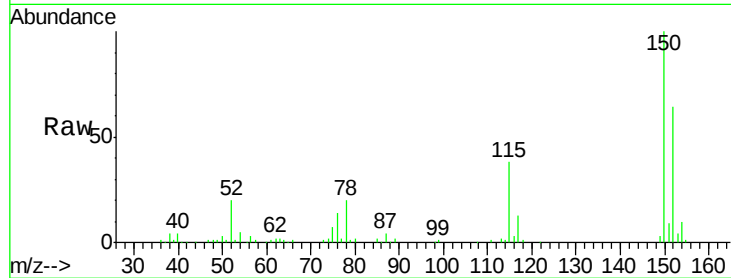
Tot Ion:152 Resp: 118924

Ion Ratio Lower Upper

152 100

115 59.1 26.9 80.6

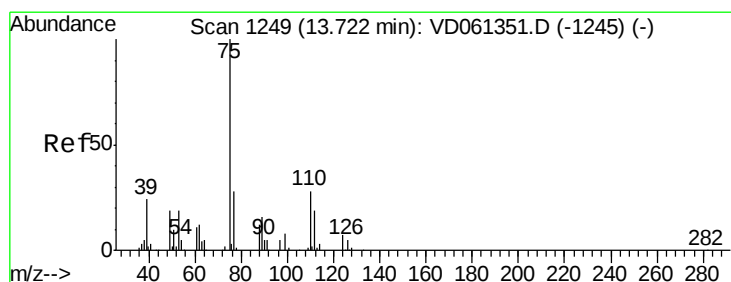
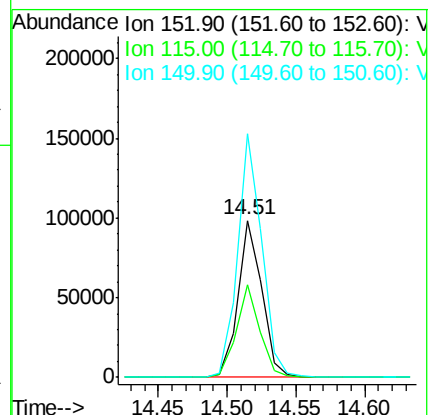
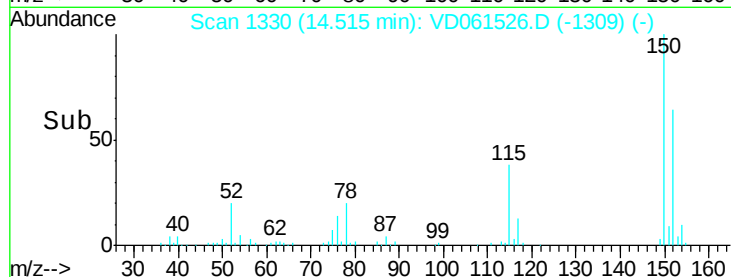
150 155.4 0.0 318.0



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: 29.790 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD061526.D

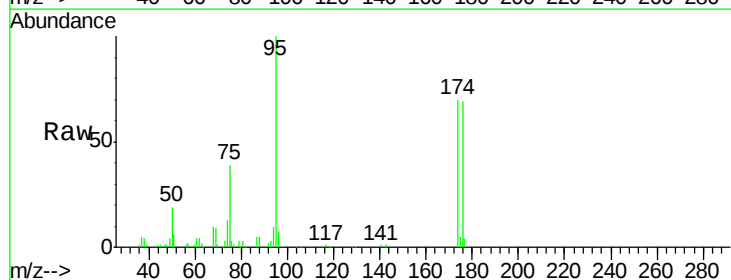
Acq: 2 Apr 2019 20:44

Tgt Ion: 75 Resp: 51175

Ion Ratio Lower Upper

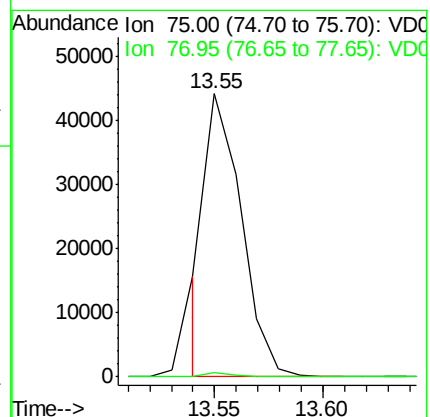
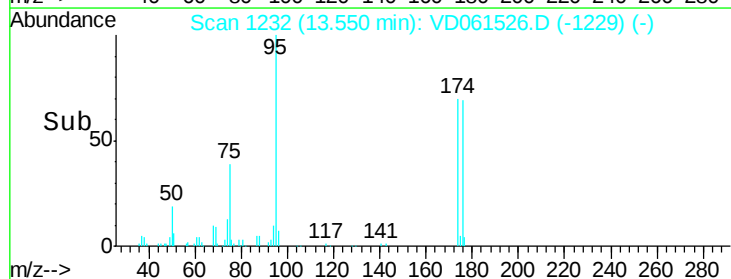
75 100

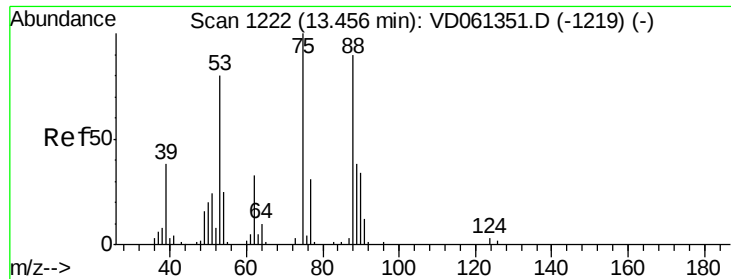
77 1.5 16.2 48.5#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 116.620 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD061526.D

Acq: 2 Apr 2019 20:44

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 61084

Ion Ratio Lower Upper

75 100

53 0.0 63.8 95.8#

89 0.0 30.5 45.7#

