

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041819\
 Data File : VD061884.D
 Acq On : 18 Apr 2019 19:58
 Operator : VA/AP
 Sample : K2414-02RE
 Misc : 5.46g/5ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-044RE

Quant Time: Apr 19 01:03:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 13:49:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	391702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	649843	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	401717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	167681	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	197740	60.23	ug/l	0.00
Spiked Amount			Recovery	=	120.46%	
35) Dibromofluoromethane	6.93	113	269894	54.97	ug/l	0.00
Spiked Amount			Recovery	=	109.94%	
50) Toluene-d8	10.42	98	436794	37.55	ug/l	0.00
Spiked Amount			Recovery	=	75.10%	
62) 4-Bromofluorobenzene	13.56	95	181304	38.45	ug/l	0.00
Spiked Amount			Recovery	=	76.90%	

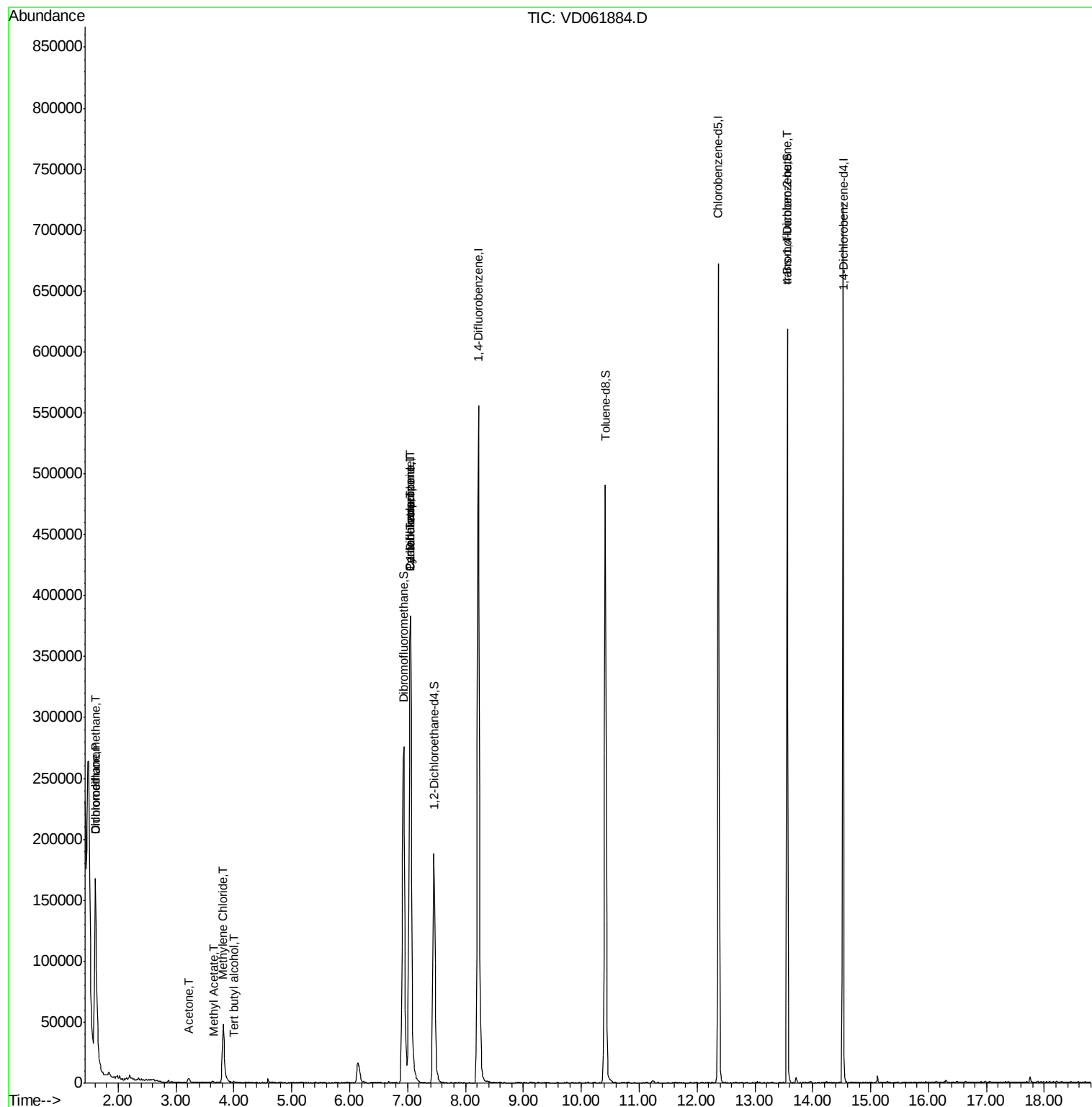
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.60	85	4384	1.147	ug/l	74
3) Chloromethane	1.61	50	18433	6.050	ug/l #	67
5) Bromomethane	2.15	94	180	Below Cal	#	12
11) Tert butyl alcohol	3.99	59	422	2.180	ug/l #	76
16) Acetone	3.22	43	6695	8.275	ug/l	92
18) Methyl Acetate	3.64	43	2160	1.332	ug/l #	53
20) Methylene Chloride	3.82	84	36151	4.846	ug/l	91
31) Cyclohexane	7.05	56	7015	1.411	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	29267	5.511	ug/l #	46
38) Carbon Tetrachloride	7.05	117	37793	5.636	ug/l #	16
81) trans-1,4-Dichloro-2-buten	13.56	75	72817	98.564	ug/l #	16

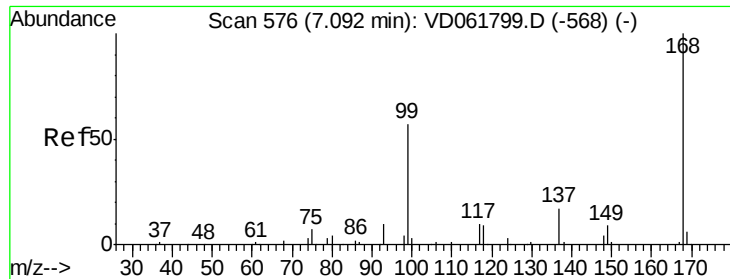
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.00 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

Instrument :

MSVOA_D

ClientSampleId :

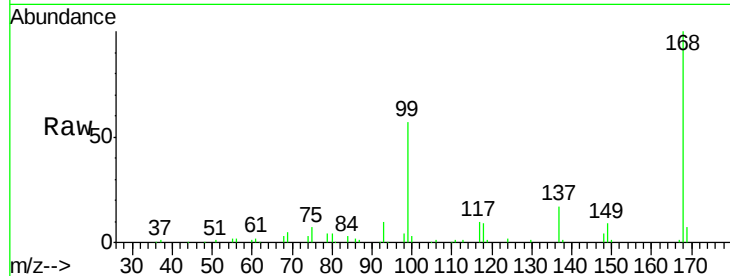
FK-PS-01-044RE

Tot Ion:168 Resp: 391702

Ion Ratio Lower Upper

168 100

99 56.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

150000

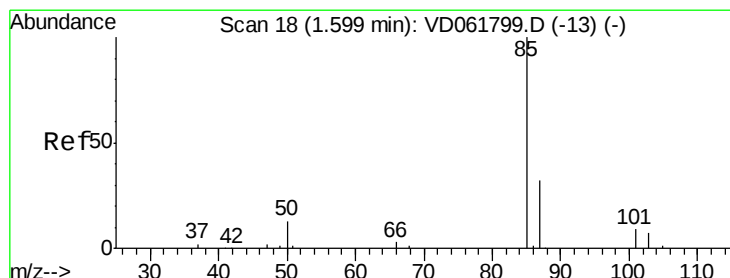
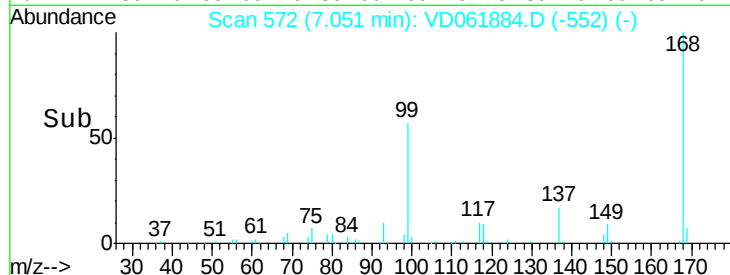
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 1.147 ug/l

RT: 1.60 min Scan# 18

Delta R.T. 0.02 min

Lab File: VD061884.D

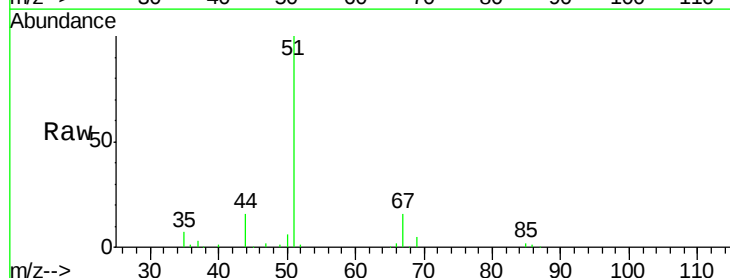
Acq: 18 Apr 2019 19:58

Tgt Ion: 85 Resp: 4384

Ion Ratio Lower Upper

85 100

87 17.9 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.60

2000

1500

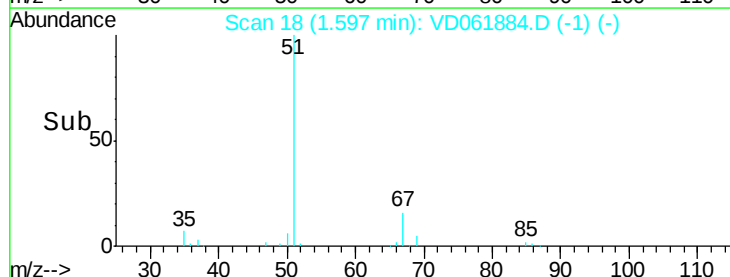
1000

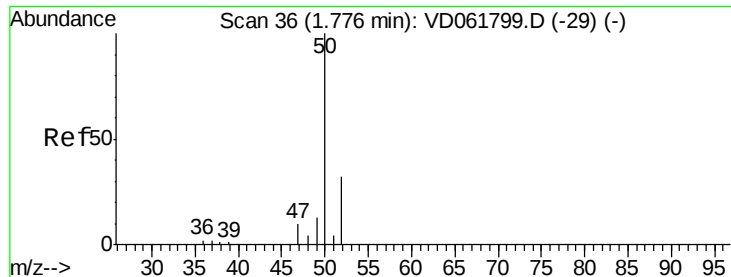
500

0

1.55 1.60 1.65 1.70

Time-->





#3

Chloromethane

Concen: 6.050 ug/l

RT: 1.61 min Scan# 19

Delta R.T. -0.15 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

Instrument :

MSVOA_D

ClientSampleId :

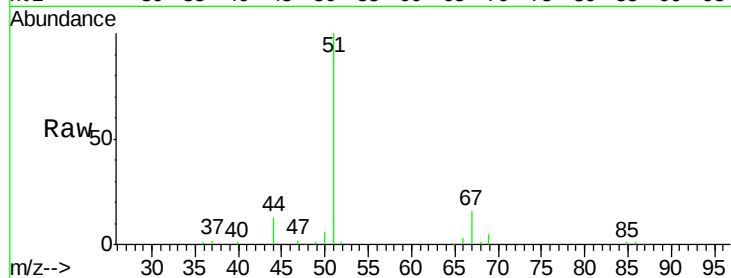
FK-PS-01-044RE

Tot Ion: 50 Resp: 18433

Ion Ratio Lower Upper

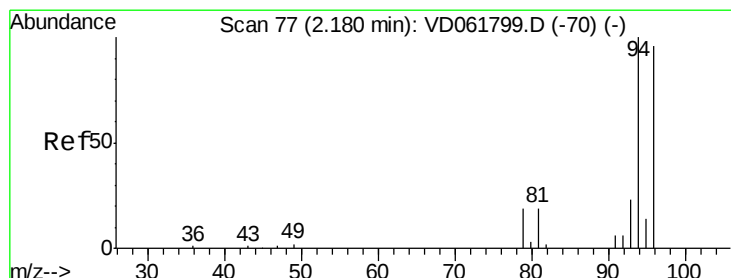
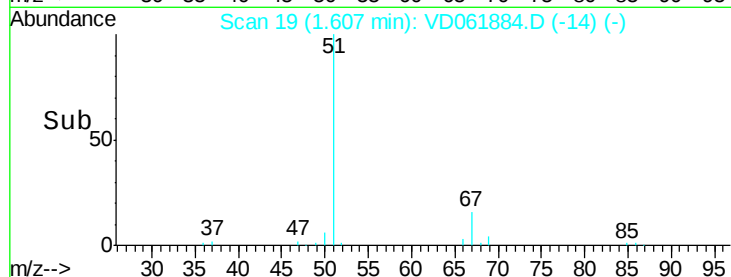
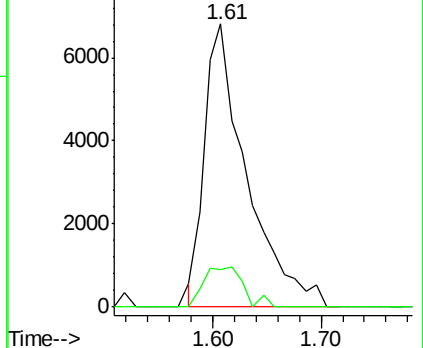
50 100

52 13.5 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: Below Cal

RT: 2.15 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

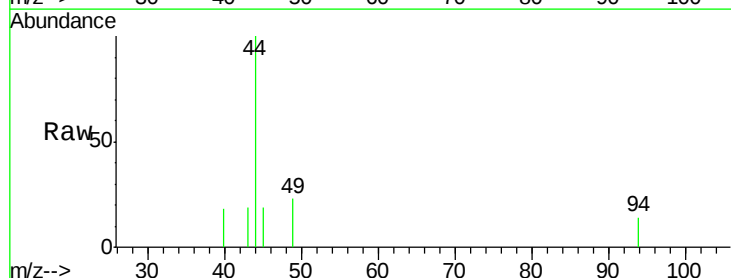
Tgt Ion: 94 Resp: 180

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

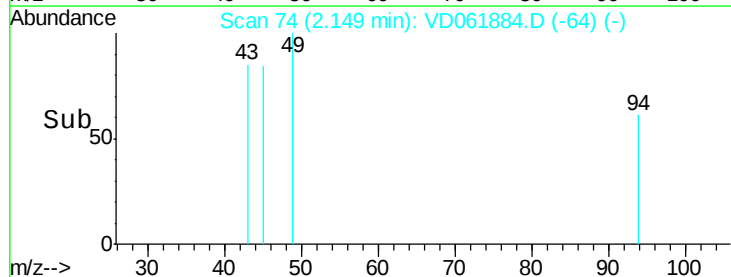
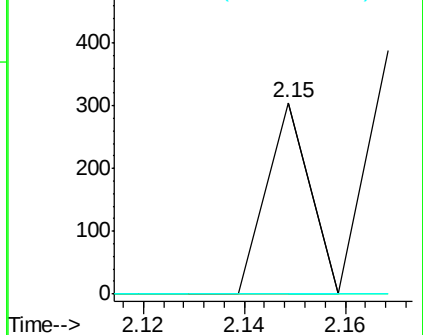
93 0.0 18.5 27.7#

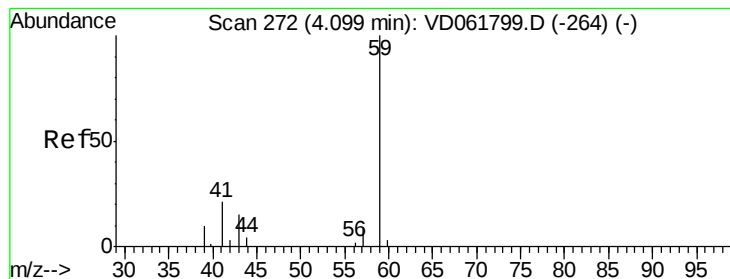


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



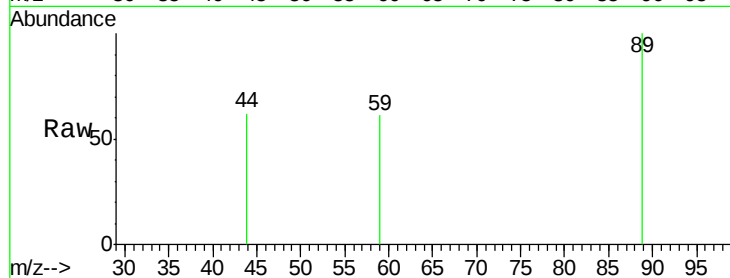


#11

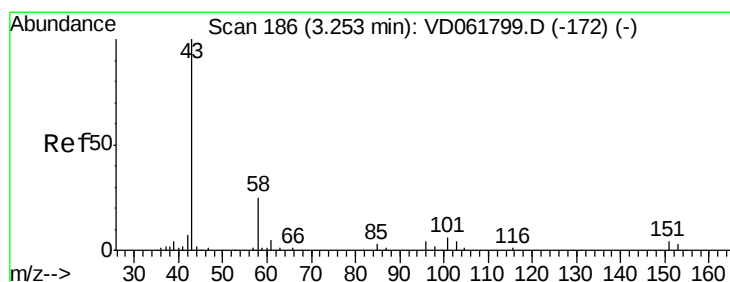
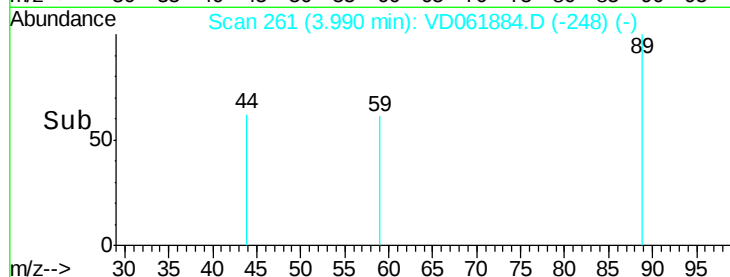
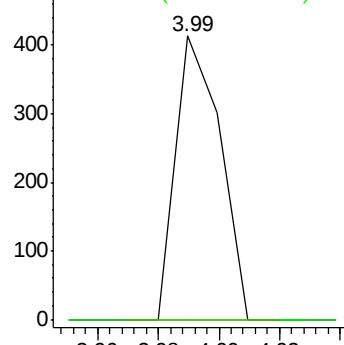
Tert butyl alcohol
 Concen: 2.180 ug/l
 RT: 3.99 min Scan# 261
 Delta R.T. -0.07 min
 Lab File: VD061884.D
 Acq: 18 Apr 2019 19:58

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-044RE

Tot Ion: 59 Resp: 422
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#



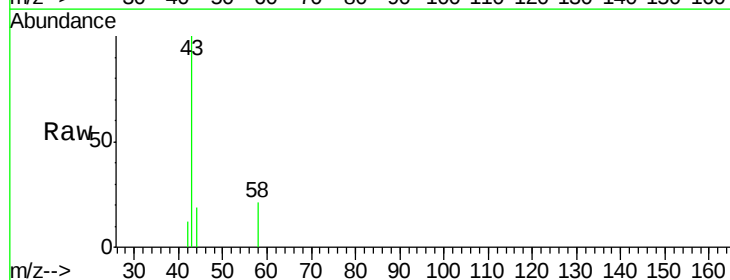
Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC



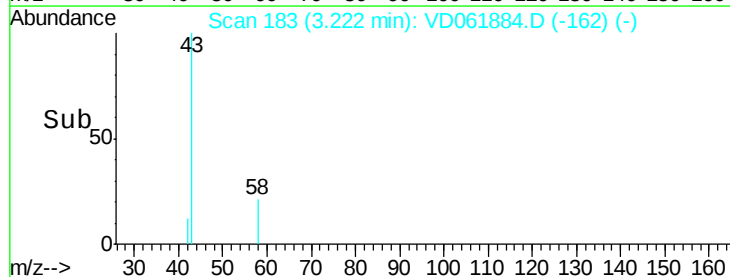
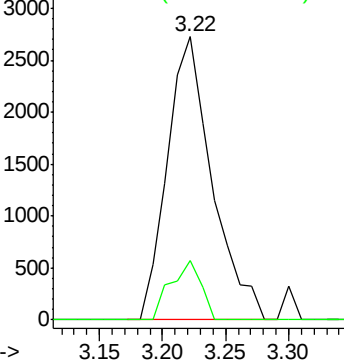
#16

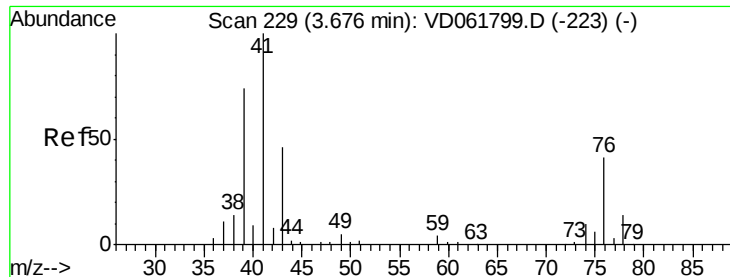
Acetone
 Concen: 8.275 ug/l
 RT: 3.22 min Scan# 183
 Delta R.T. 0.01 min
 Lab File: VD061884.D
 Acq: 18 Apr 2019 19:58

Tgt Ion: 43 Resp: 6695
 Ion Ratio Lower Upper
 43 100
 58 21.1 19.9 29.9



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

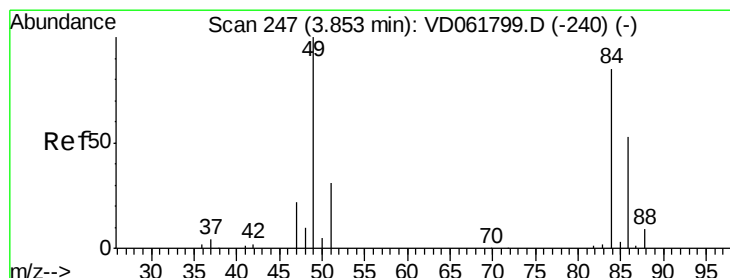
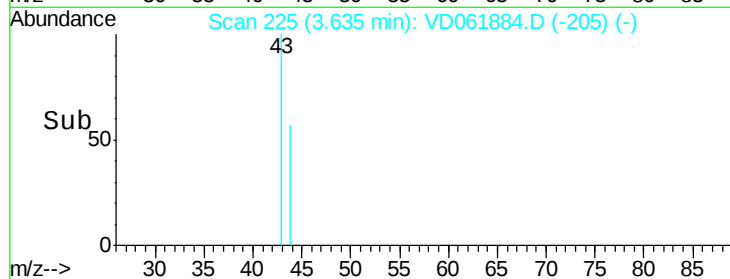
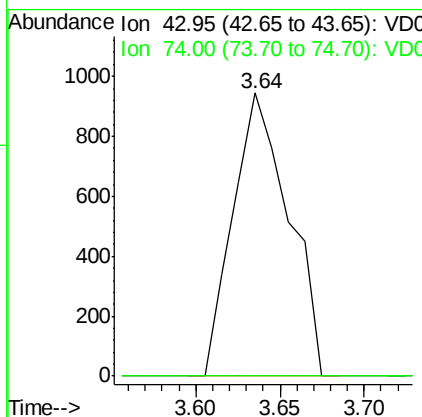
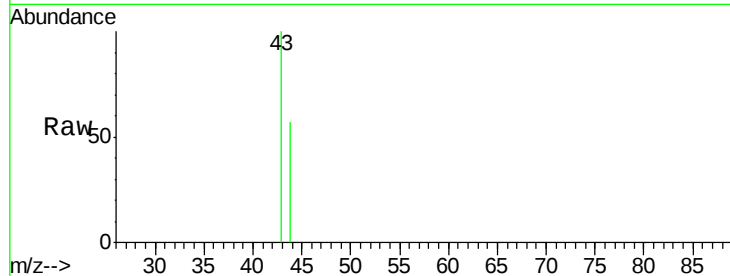




#18
Methyl Acetate
Concen: 1.332 ug/l
RT: 3.64 min Scan# 225
Delta R.T. -0.00 min
Lab File: VD061884.D
Acq: 18 Apr 2019 19:58

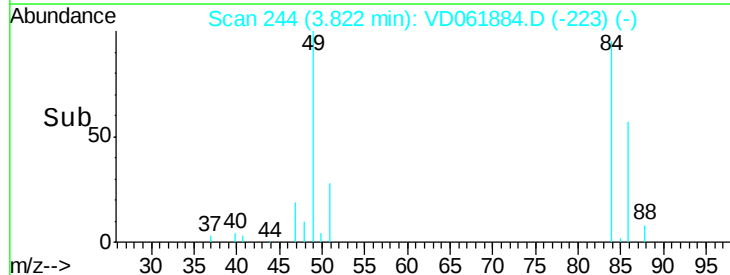
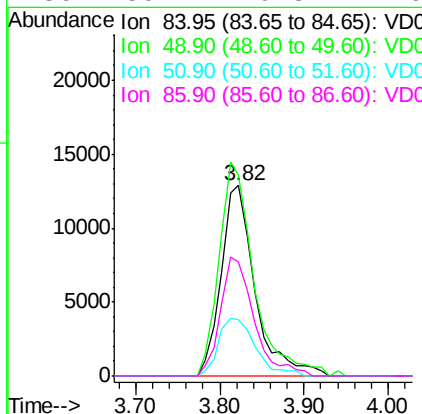
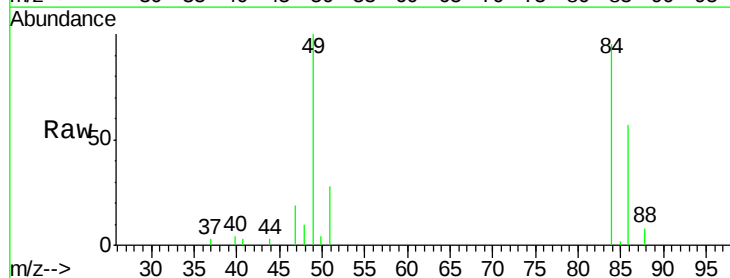
Instrument :
MSVOA_D
ClientSampleId :
FK-PS-01-044RE

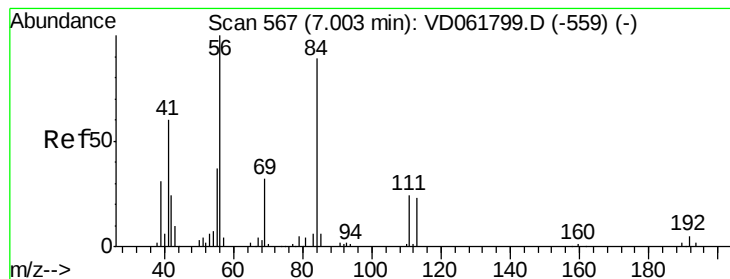
Tot Ion: 43 Resp: 2160
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: 4.846 ug/l
RT: 3.82 min Scan# 244
Delta R.T. 0.01 min
Lab File: VD061884.D
Acq: 18 Apr 2019 19:58

Tgt Ion: 84 Resp: 36151
Ion Ratio Lower Upper
84 100
49 105.1 94.0 141.0
51 29.4 29.0 43.4
86 59.7 49.8 74.6





#31

Cyclohexane

Concen: 1.411 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.10 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-044RE

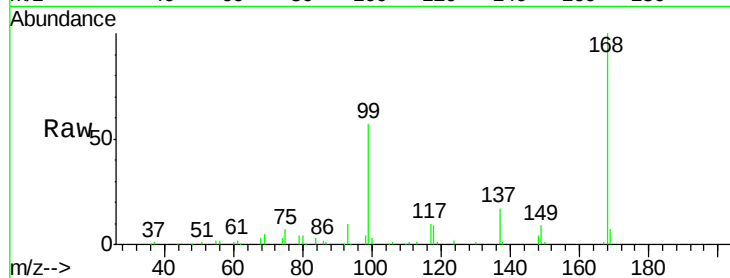
Tot Ion: 56 Resp: 7015

Ion Ratio Lower Upper

56 100

69 247.6 25.8 38.6#

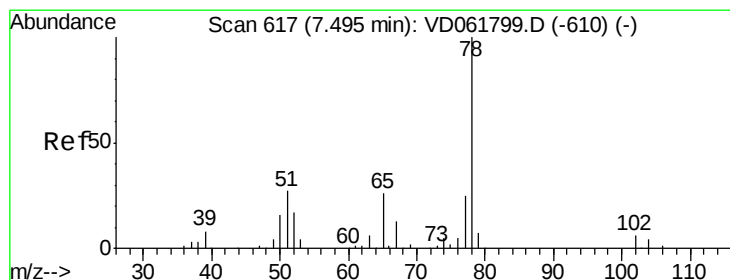
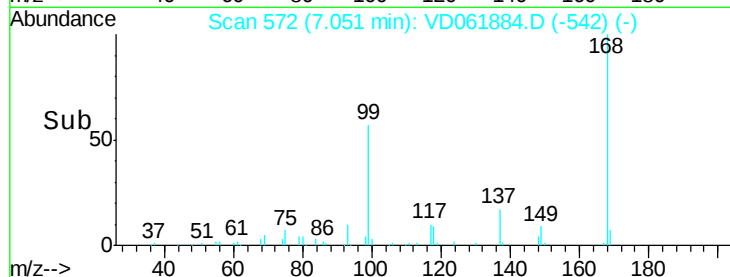
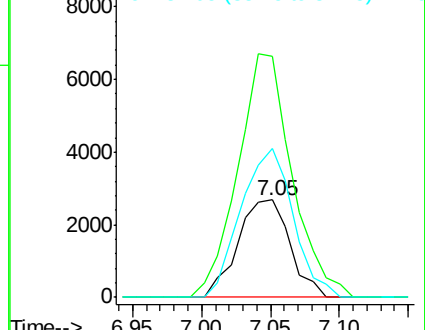
84 153.4 72.2 108.4#



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: N.D. ug/l

RT: 7.45 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD061884.D

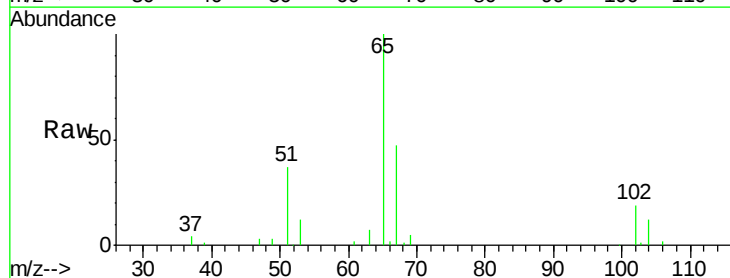
Acq: 18 Apr 2019 19:58

Tgt Ion: 65 Resp: 197740

Ion Ratio Lower Upper

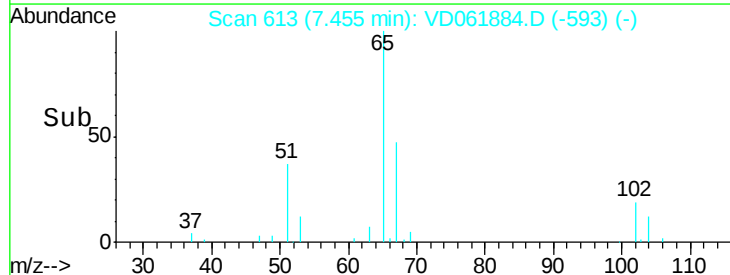
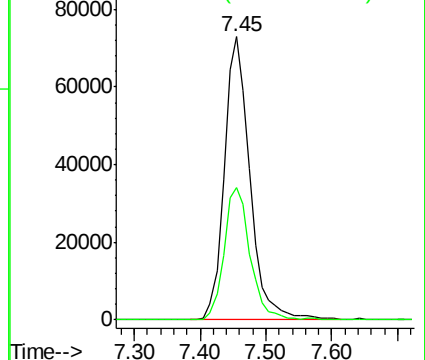
65 100

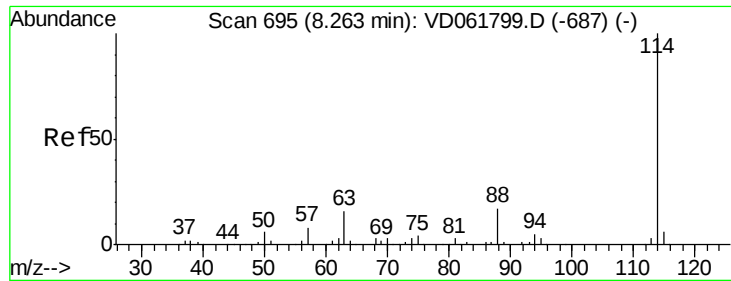
67 46.8 0.0 98.0



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# 691

Delta R.T. -0.00 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

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FK-PS-01-044RE

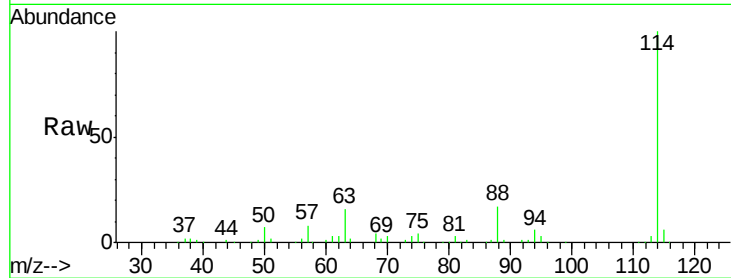
Tot Ion:114 Resp: 649843

Ion Ratio Lower Upper

114 100

63 16.5 0.0 32.4

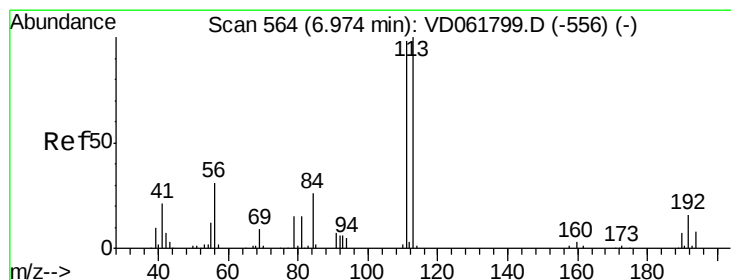
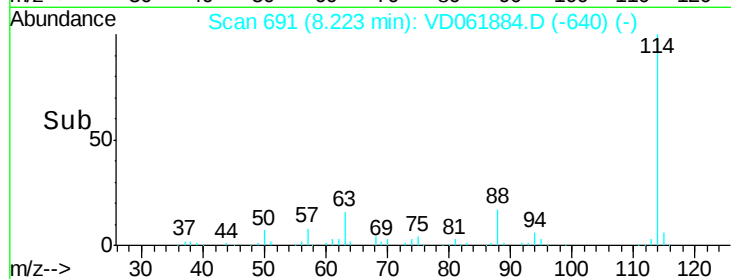
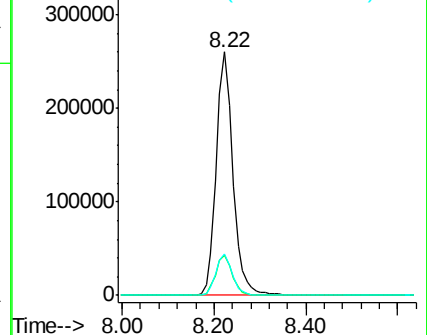
88 17.1 0.0 33.6



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: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.01 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

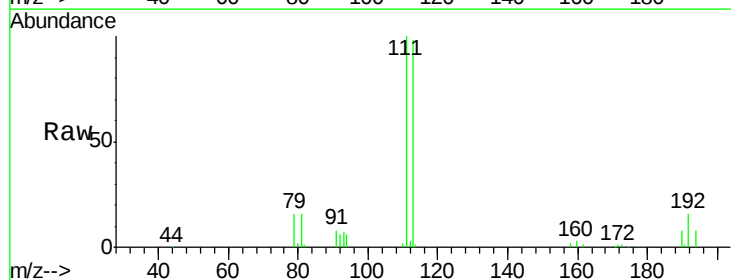
Tgt Ion:113 Resp: 269894

Ion Ratio Lower Upper

113 100

111 102.3 78.5 117.7

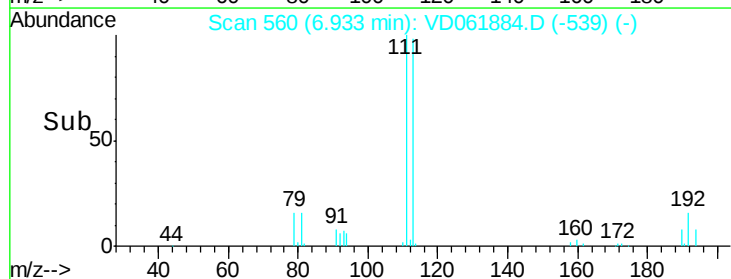
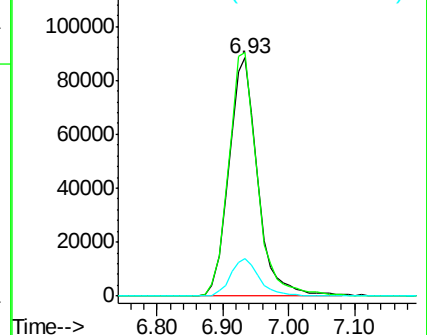
192 16.0 13.0 19.4

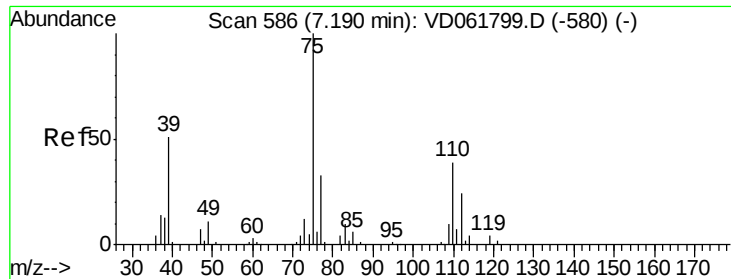


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.511 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.11 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

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FK-PS-01-044RE

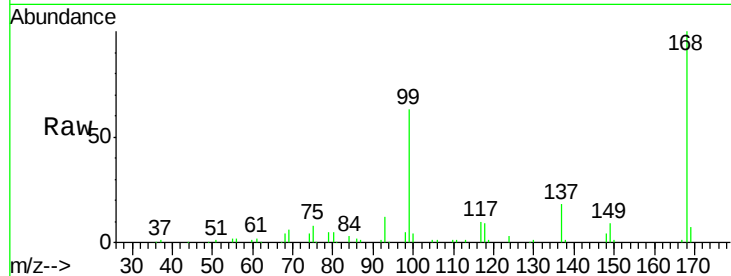
Tot Ion: 75 Resp: 29267

Ion Ratio Lower Upper

75 100

110 7.7 19.1 57.1#

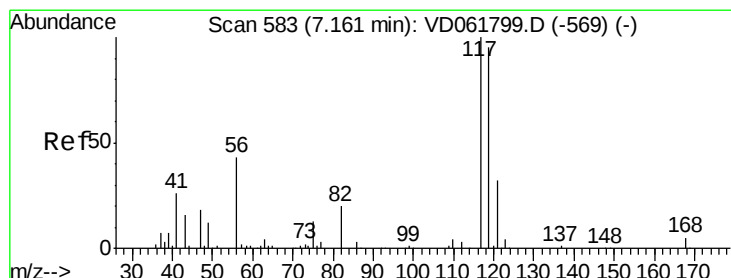
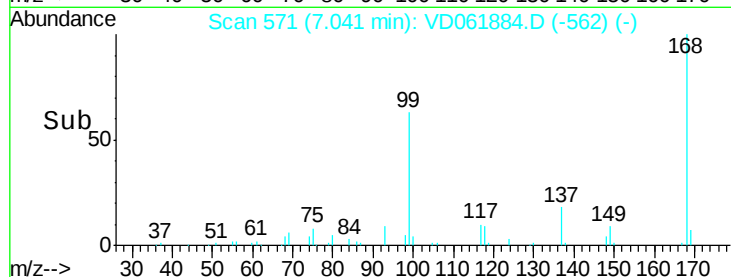
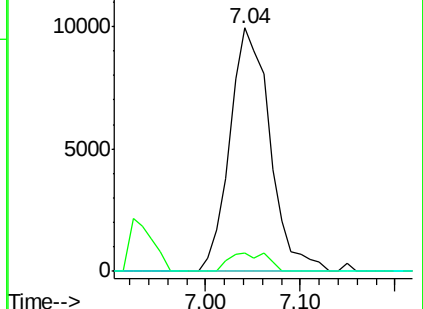
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V



#38

Carbon Tetrachloride

Concen: 5.636 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.06 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

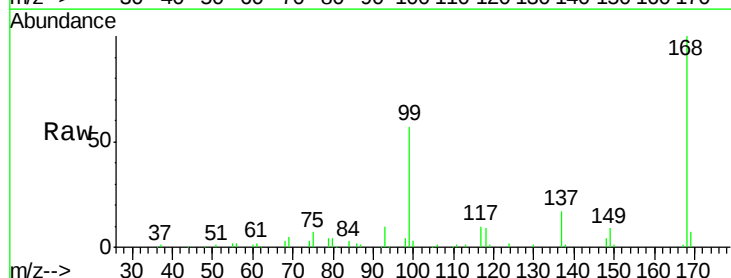
Tgt Ion: 117 Resp: 37793

Ion Ratio Lower Upper

117 100

119 4.9 75.8 113.8#

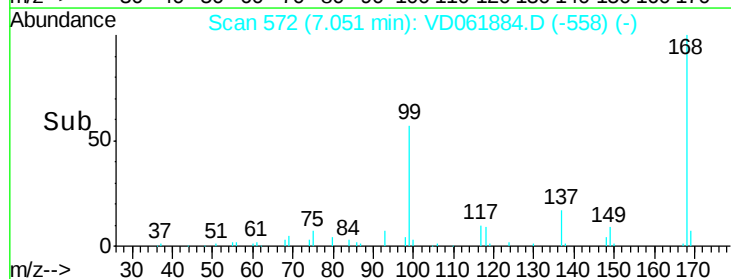
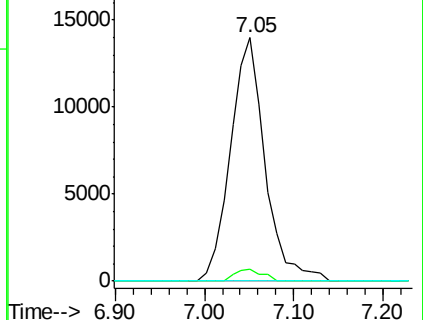
121 0.0 25.9 38.9#

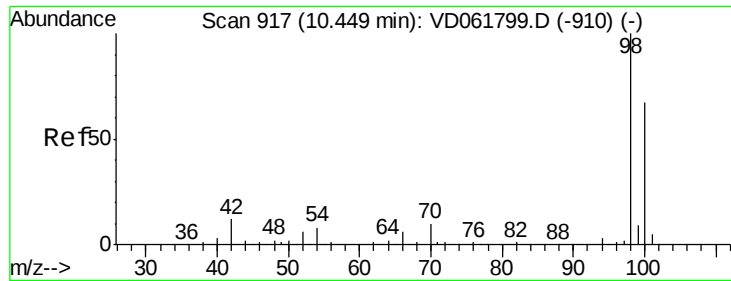


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

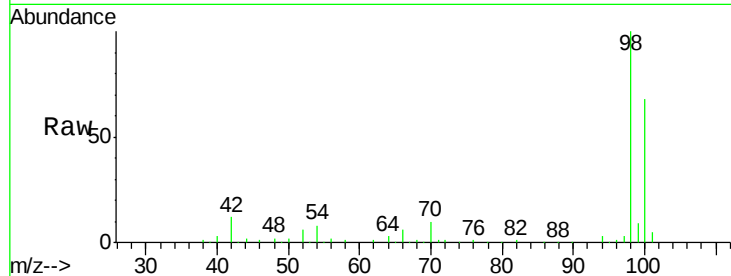




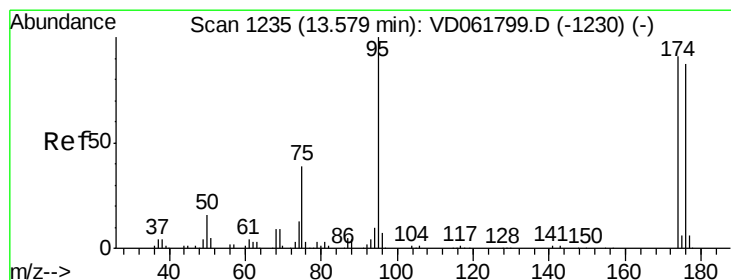
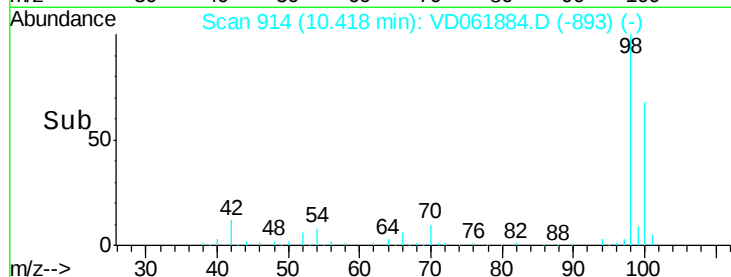
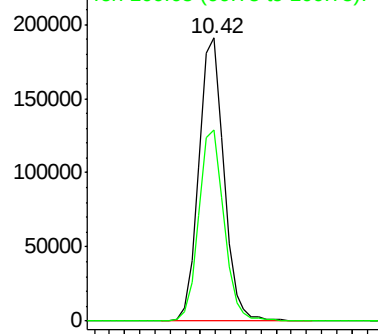
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.01 min
Lab File: VD061884.D
Acq: 18 Apr 2019 19:58

Instrument :
MSVOA_D
ClientSampleId :
FK-PS-01-044RE

Tot Ion: 98 Resp: 436794
Ion Ratio Lower Upper
98 100
100 67.7 53.8 80.8

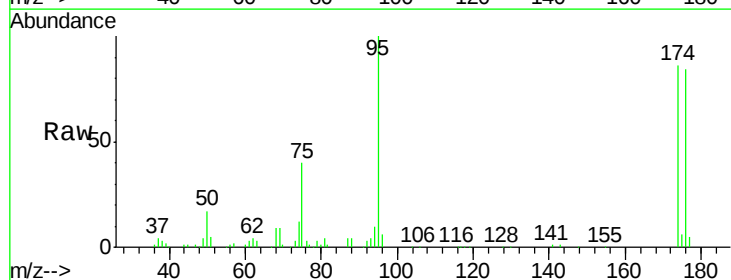


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

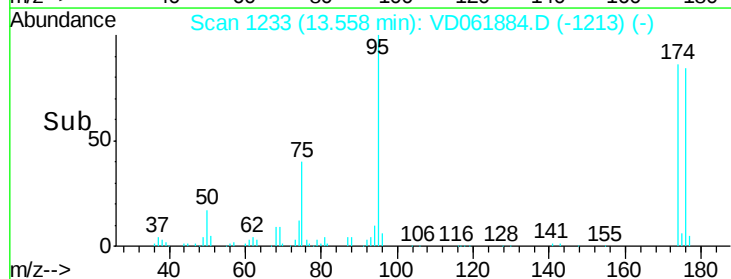
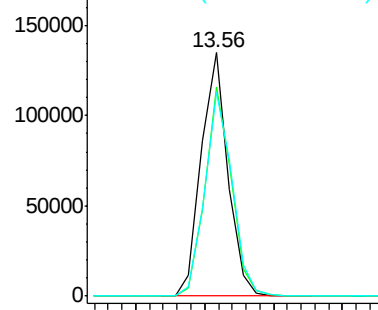


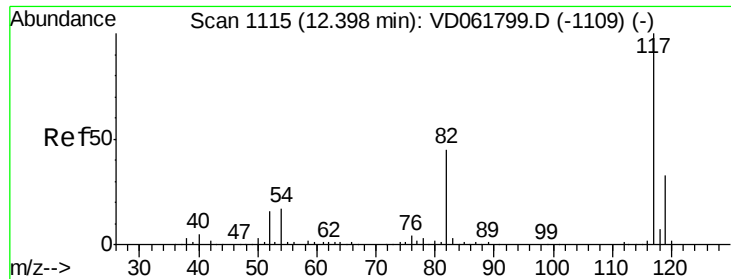
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.00 min
Lab File: VD061884.D
Acq: 18 Apr 2019 19:58

Tgt Ion: 95 Resp: 181304
Ion Ratio Lower Upper
95 100
174 85.7 0.0 181.8
176 84.0 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

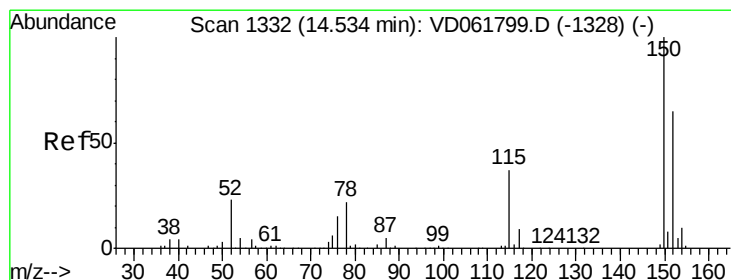
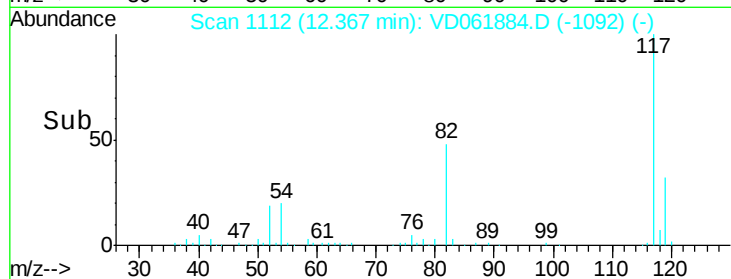
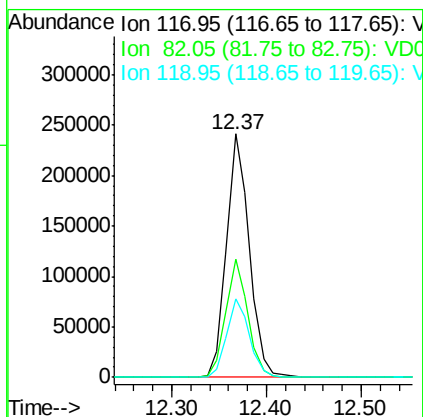
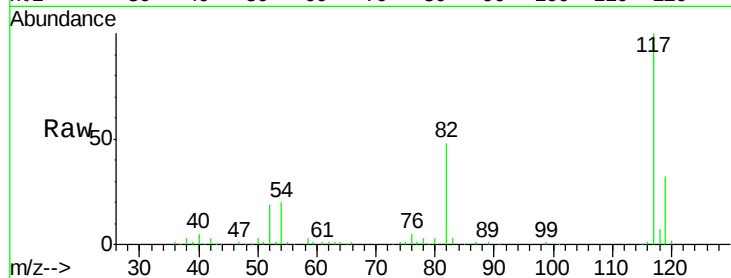




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD061884.D
Acq: 18 Apr 2019 19:58

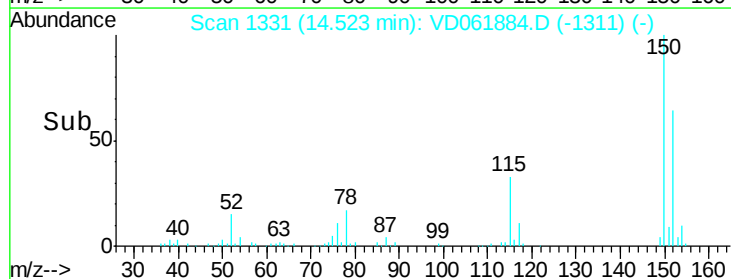
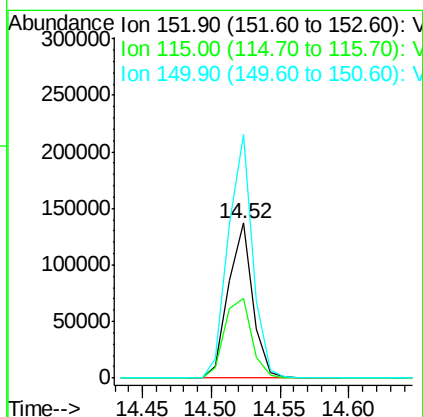
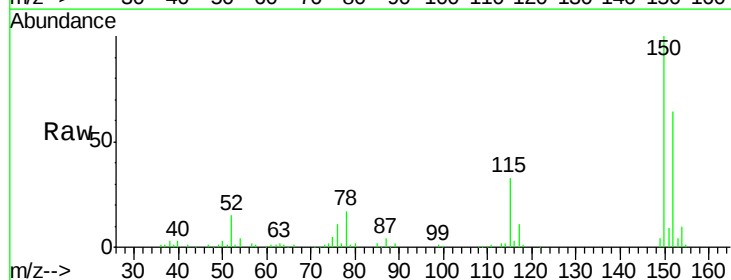
Instrument :
MSVOA_D
ClientSampleId :
FK-PS-01-044RE

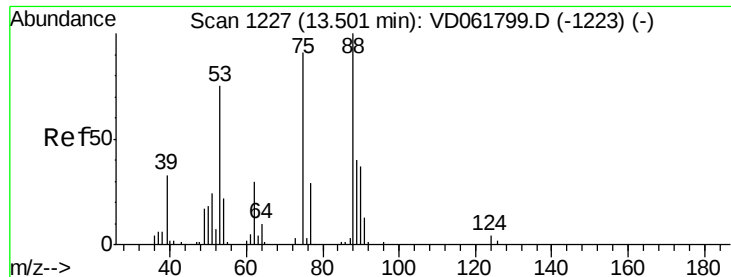
Tot Ion:117 Resp: 401717
Ion Ratio Lower Upper
117 100
82 48.3 36.2 54.2
119 32.1 26.2 39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VD061884.D
Acq: 18 Apr 2019 19:58

Tgt Ion:152 Resp: 167681
Ion Ratio Lower Upper
152 100
115 51.6 30.9 92.7
150 156.9 0.0 314.8





#81

trans-1,4-Dichloro-2-butene

Concen: 98.564 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD061884.D

Acq: 18 Apr 2019 19:58

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-044RE

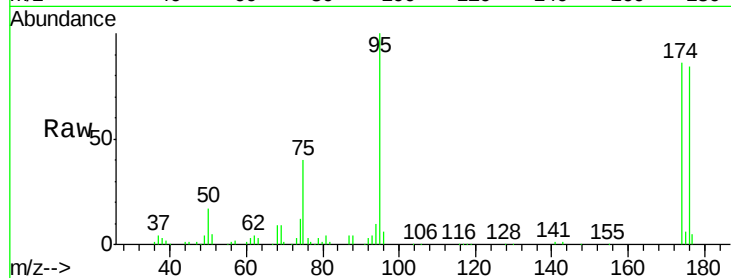
Tot Ion: 75 Resp: 72817

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

