

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062419\
 Data File : VD062839.D
 Acq On : 24 Jun 2019 14:43
 Operator : VA/AP
 Sample : K3487-02RE
 Misc : 6.27g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 FK-PS-01-048RE

Quant Time: Jun 25 05:03:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	429549	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	496713	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	215517	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	34962	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	308418	66.05	ug/l	0.00
Spiked Amount			Recovery	=	132.10%	
35) Dibromofluoromethane	6.93	113	291314	69.55	ug/l	0.00
Spiked Amount			Recovery	=	139.10%	
50) Toluene-d8	10.42	98	345094	37.86	ug/l	0.00
Spiked Amount			Recovery	=	75.72%	
62) 4-Bromofluorobenzene	13.56	95	49400	11.92	ug/l	0.00
Spiked Amount			Recovery	=	23.84%	

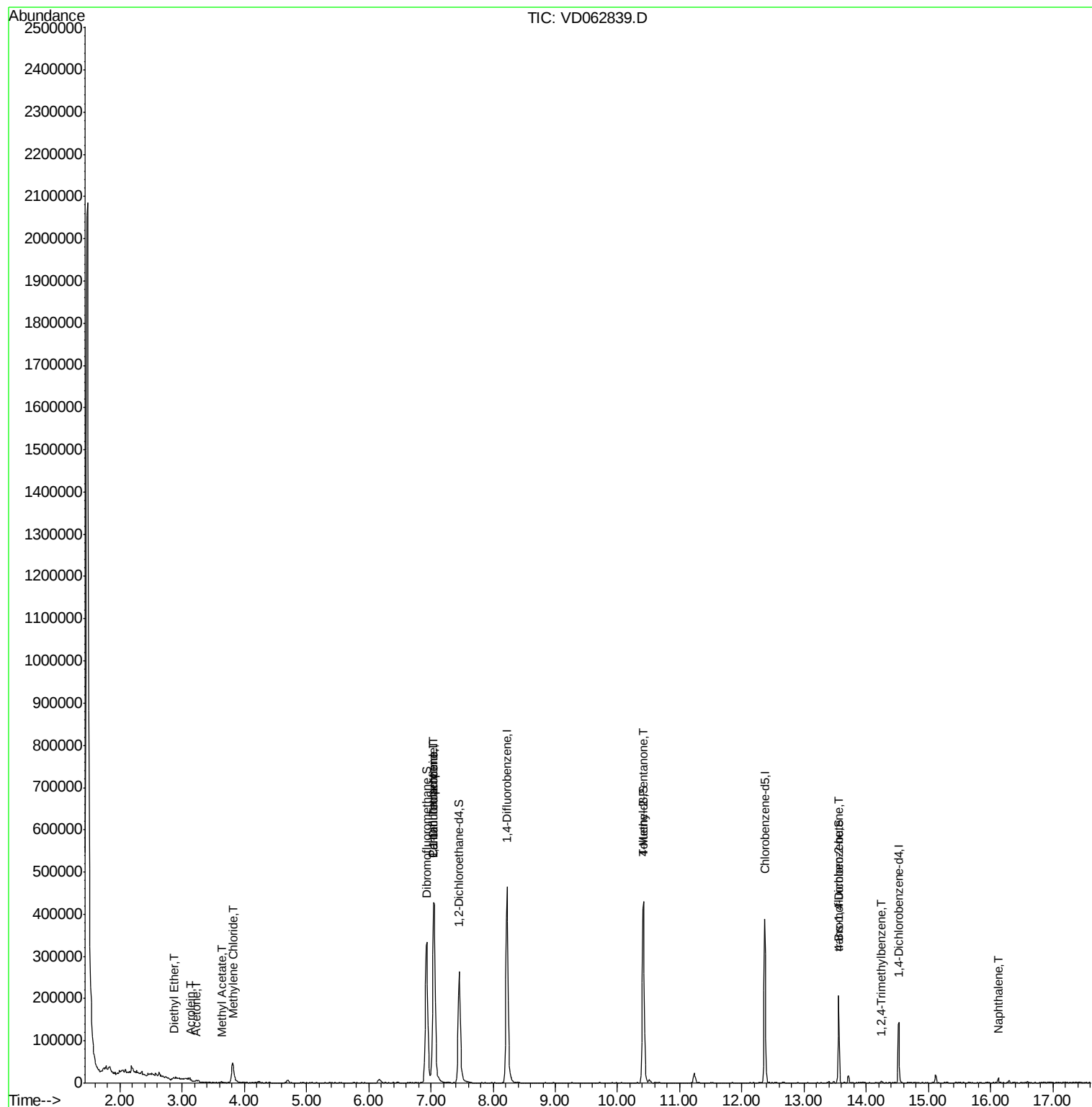
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.88	74	1268	1.190	ug/l	85
13) Acrolein	3.14	56	382	1.760	ug/l #	15
16) Acetone	3.22	43	8889	2.461	ug/l #	91
18) Methyl Acetate	3.63	43	2962	2.101	ug/l	95
20) Methylene Chloride	3.81	84	31210	8.765	ug/l	91
36) 1,1-Dichloropropene	7.04	75	33094	7.038	ug/l #	54
37) Ethyl Acetate	6.17	43	1061	Below Cal	#	69
38) Carbon Tetrachloride	7.05	117	44493	6.292	ug/l #	13
51) 4-Methyl-2-Pentanone	10.41	43	2859	1.636	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.56	75	24664	233.162	ug/l #	2
84) 1,2,4-Trimethylbenzene	14.24	105	2344	1.215	ug/l #	33
95) Naphthalene	16.13	128	8787	8.679	ug/l #	97

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

Instrument :

MSVOA_D

ClientSampleId :

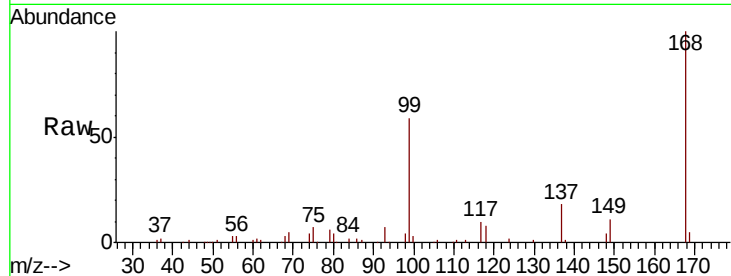
FK-PS-01-048RE

Tot Ion:168 Resp: 429549

Ion Ratio Lower Upper

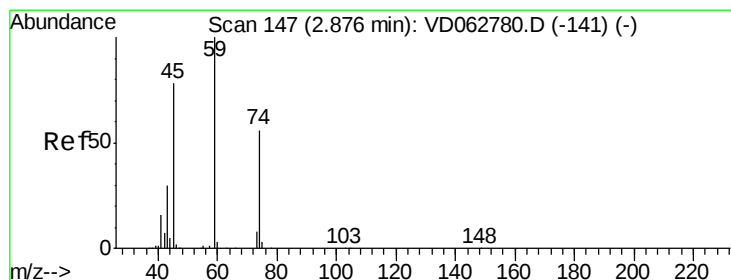
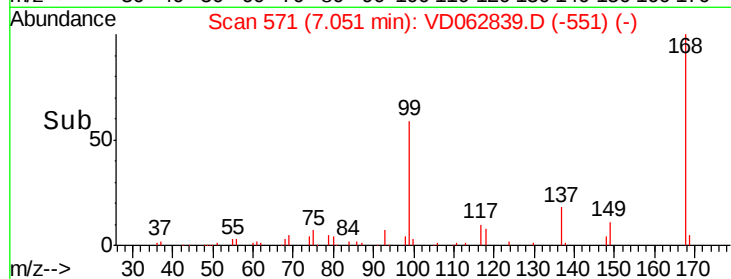
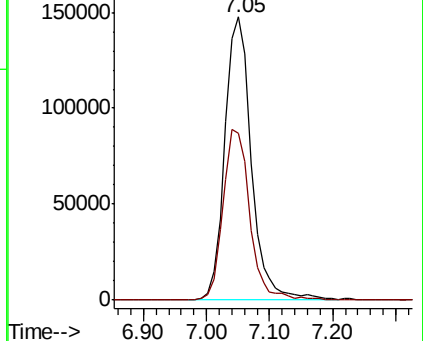
168 100

99 58.8 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#8

Diethyl Ether

Concen: 1.190 ug/l

RT: 2.88 min Scan# 147

Delta R.T. 0.00 min

Lab File: VD062839.D

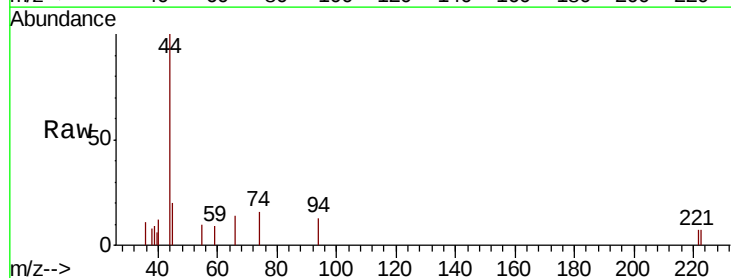
Acq: 24 Jun 2019 14:43

Tgt Ion: 74 Resp: 1268

Ion Ratio Lower Upper

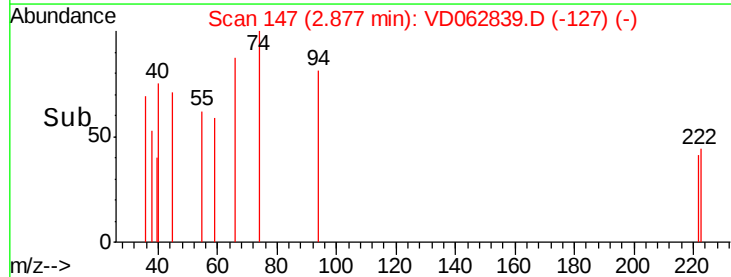
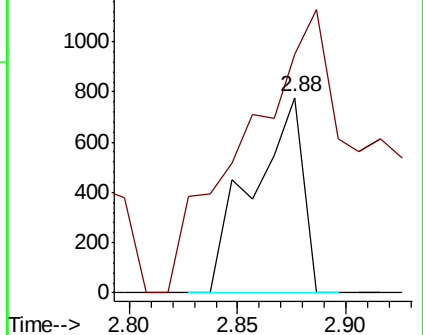
74 100

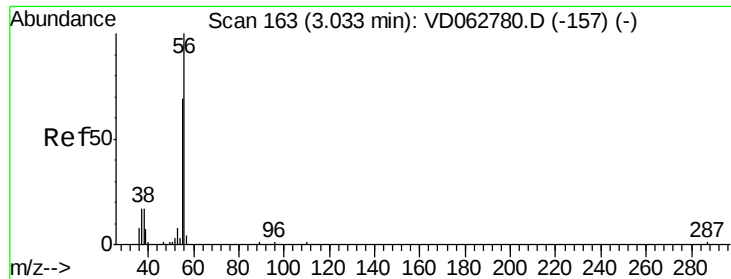
45 122.1 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC





#13

Acrolein

Concen: 1.760 ug/l

RT: 3.14 min Scan# 174

Delta R.T. 0.11 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

Instrument :

MSVOA_D

ClientSampleId :

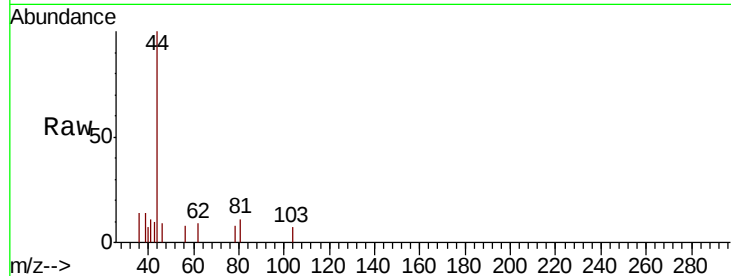
FK-PS-01-048RE

Tot Ion: 56 Resp: 382

Ion Ratio Lower Upper

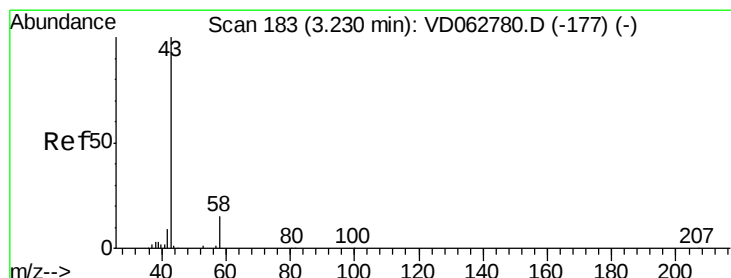
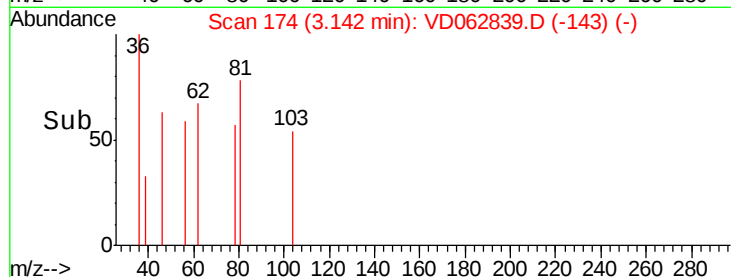
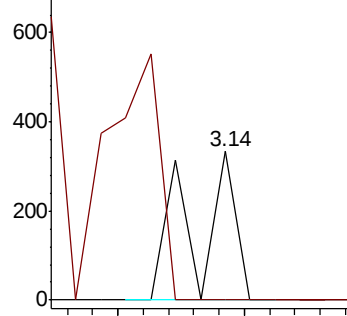
56 100

55 0.0 55.4 83.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 2.461 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD062839.D

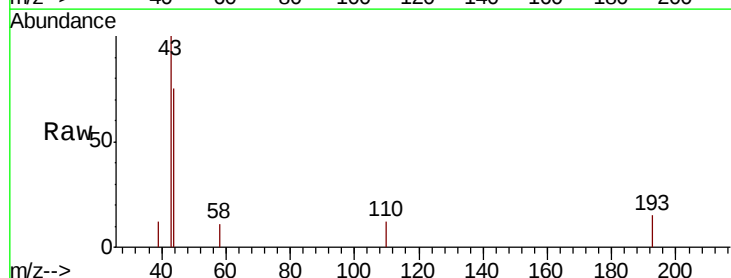
Acq: 24 Jun 2019 14:43

Tgt Ion: 43 Resp: 8889

Ion Ratio Lower Upper

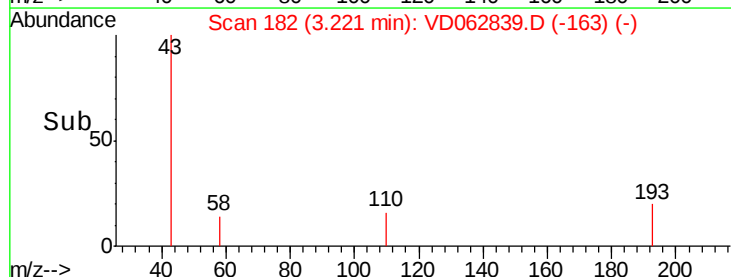
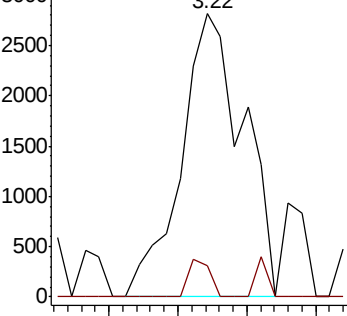
43 100

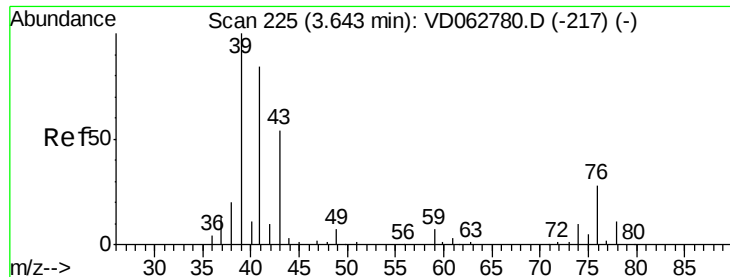
58 11.2 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

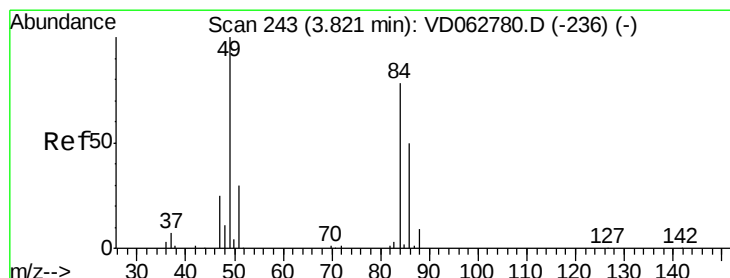
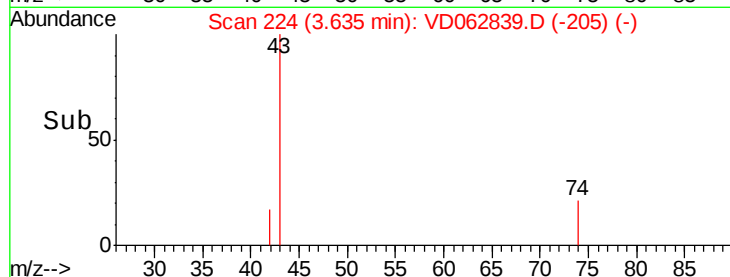
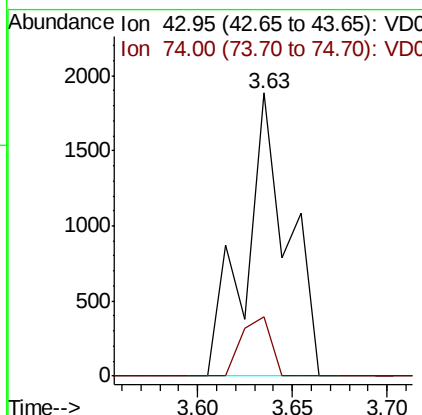
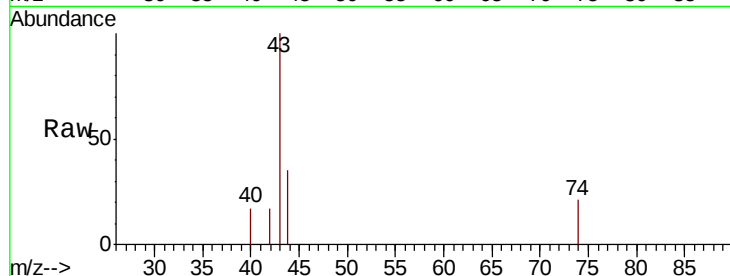




#18
Methvl Acetate
Concen: 2.101 ug/l
RT: 3.63 min Scan# 224
Delta R.T. -0.01 min
Lab File: VD062839.D
Acq: 24 Jun 2019 14:43

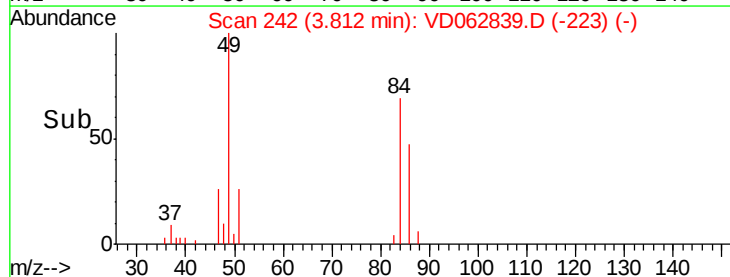
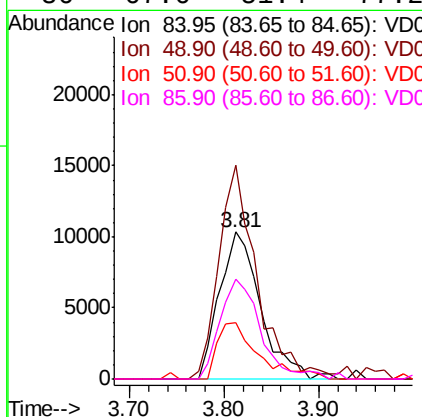
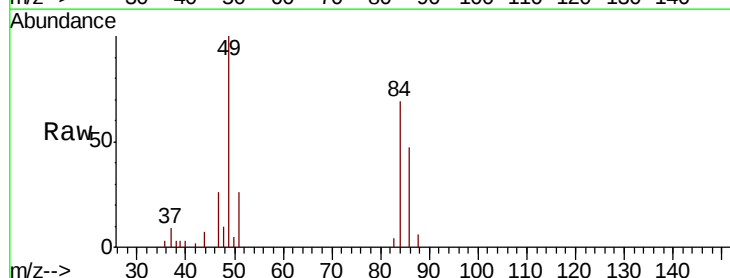
Instrument :
MSVOA_D
ClientSampleId :
FK-PS-01-048RE

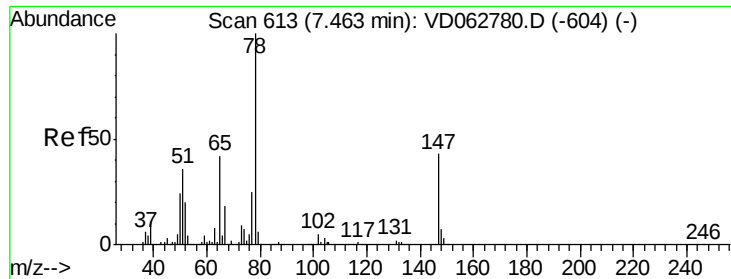
Tot Ion: 43 Resp: 2962
Ion Ratio Lower Upper
43 100
74 21.1 15.2 22.8



#20
Methylene Chloride
Concen: 8.765 ug/l
RT: 3.81 min Scan# 242
Delta R.T. -0.01 min
Lab File: VD062839.D
Acq: 24 Jun 2019 14:43

Tgt Ion: 84 Resp: 31210
Ion Ratio Lower Upper
84 100
49 145.3 102.9 154.3
51 37.9 31.2 46.8
86 67.6 51.4 77.2





#33

1,2-Dichloroethane-d4

Concen: 66.055 ug/l

RT: 7.45 min Scan# 612

Delta R.T. -0.01 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

Instrument :

MSVOA_D

ClientSampleId :

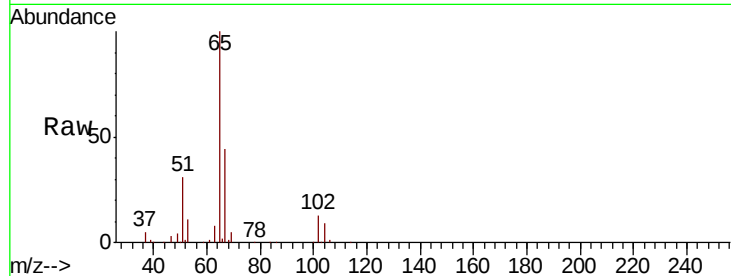
FK-PS-01-048RE

Tot Ion: 65 Resp: 308418

Ion Ratio Lower Upper

65 100

67 44.4 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

120000

100000

80000

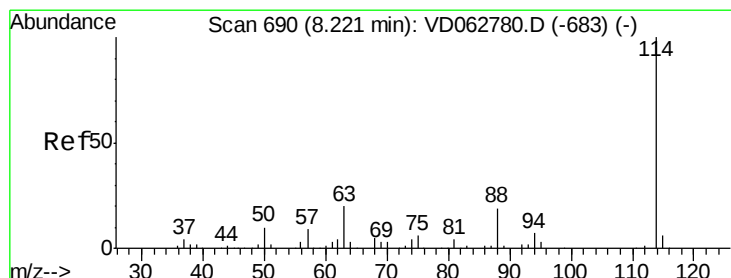
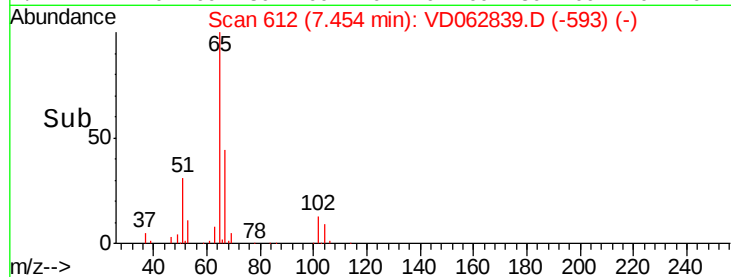
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

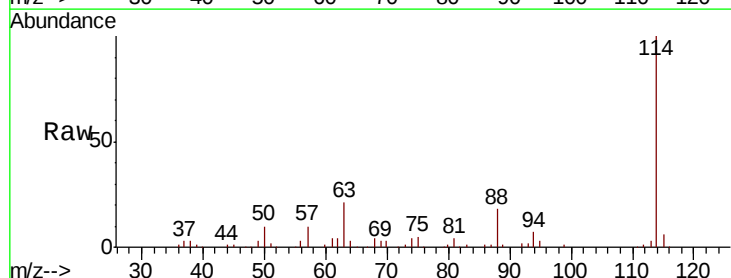
Tgt Ion: 114 Resp: 496713

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.0

88 17.7 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

250000

200000

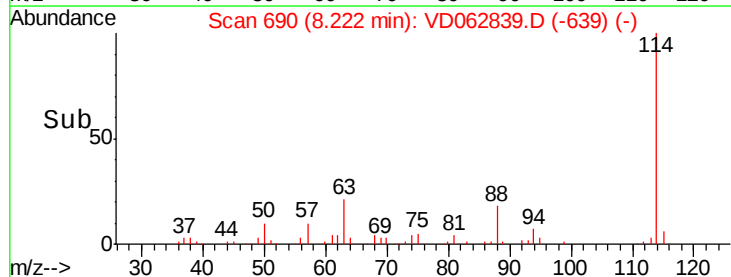
150000

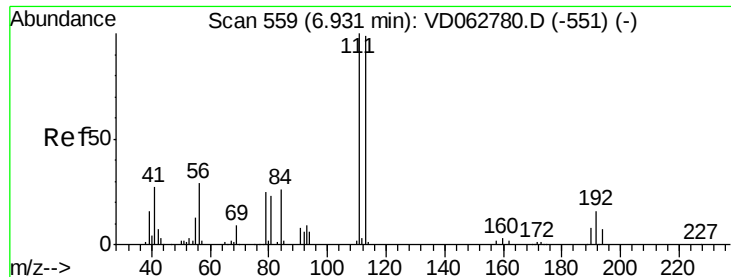
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 69.555 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.00 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-048RE

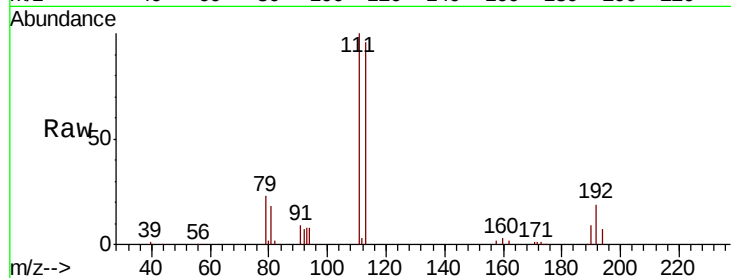
Tot Ion:113 Resp: 291314

Ion Ratio Lower Upper

113 100

111 104.2 81.2 121.8

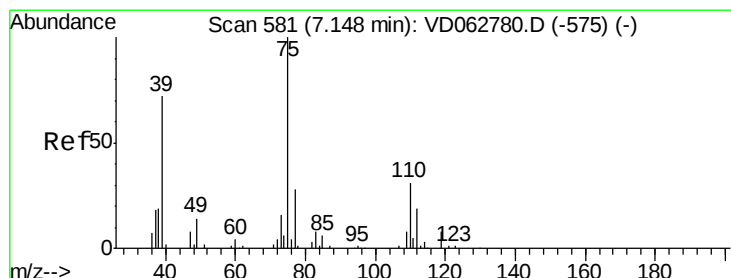
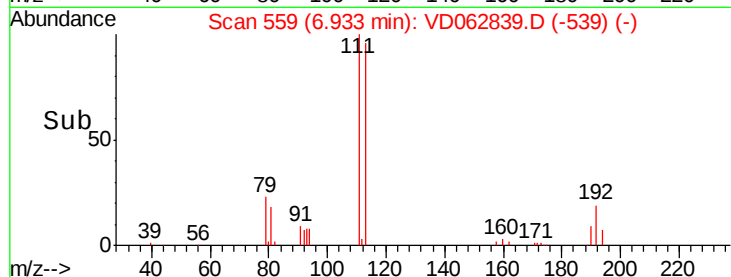
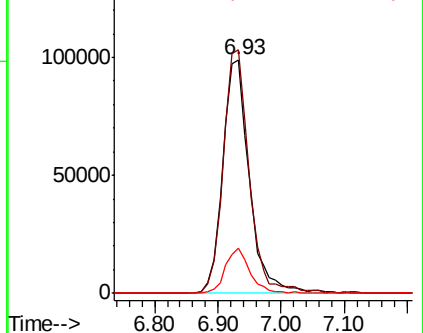
192 19.5 12.9 19.3#



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: 7.038 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

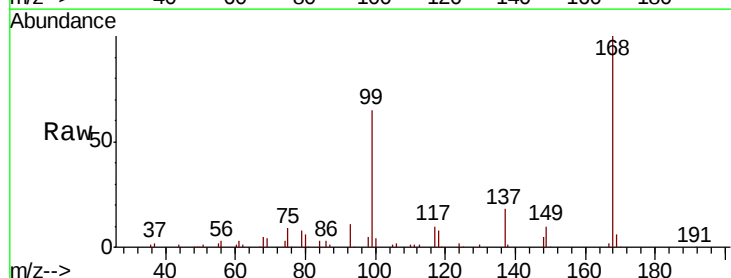
Tgt Ion: 75 Resp: 33094

Ion Ratio Lower Upper

75 100

110 9.0 15.0 45.1#

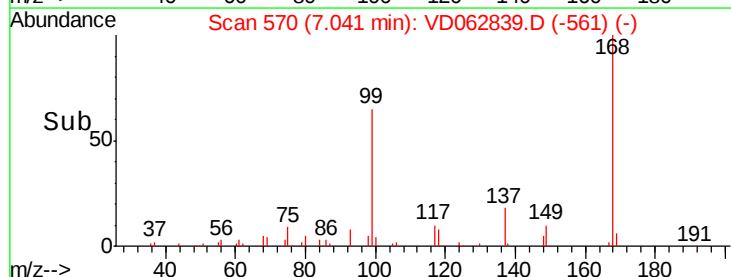
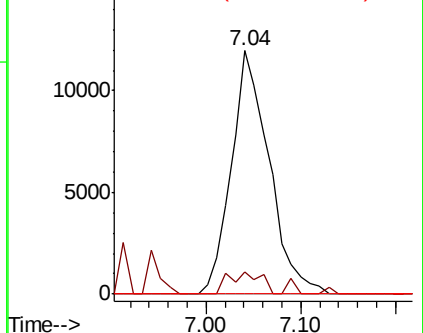
77 0.0 22.2 33.2#

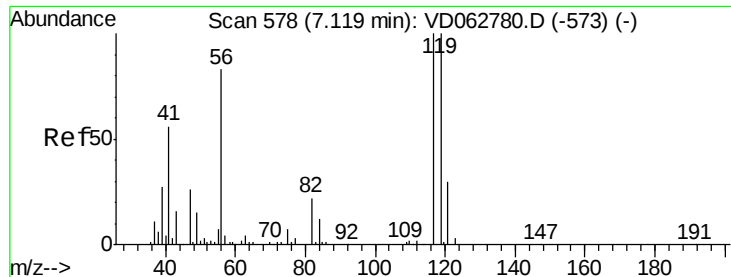


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

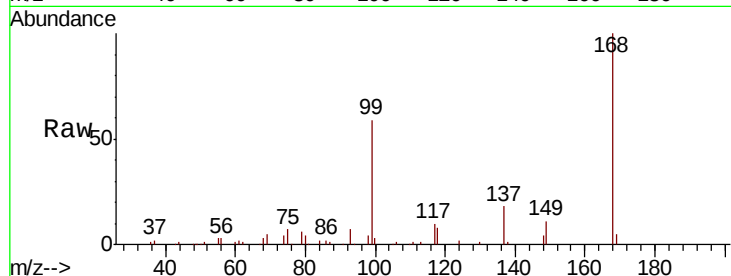




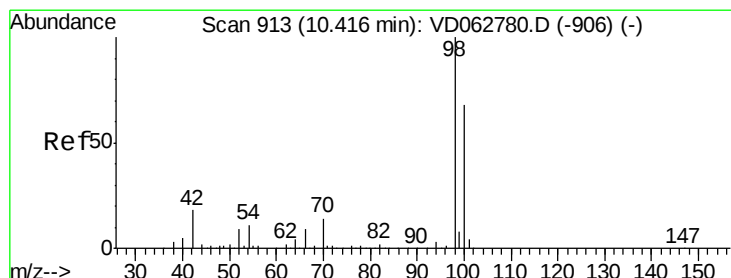
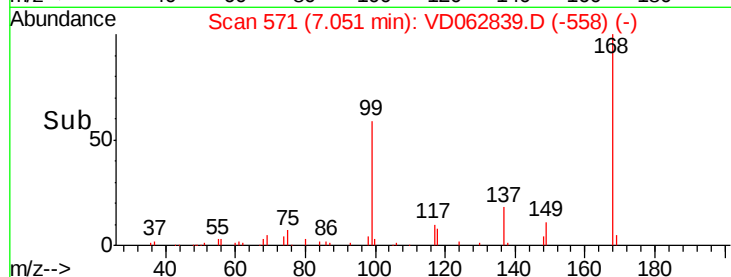
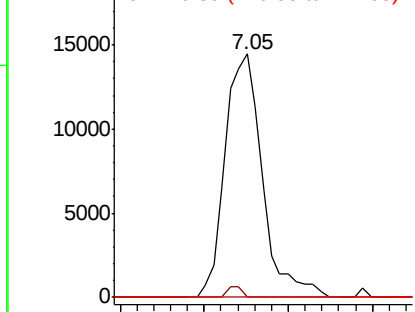
#38
Carbon Tetrachloride
Concen: 6.292 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.07 min
Lab File: VD062839.D
Acq: 24 Jun 2019 14:43

Instrument :
MSVOA_D
ClientSampleId :
FK-PS-01-048RE

Tot Ion:117 Resp: 44493
Ion Ratio Lower Upper
117 100
119 0.0 75.4 113.2#
121 0.0 22.3 33.5#

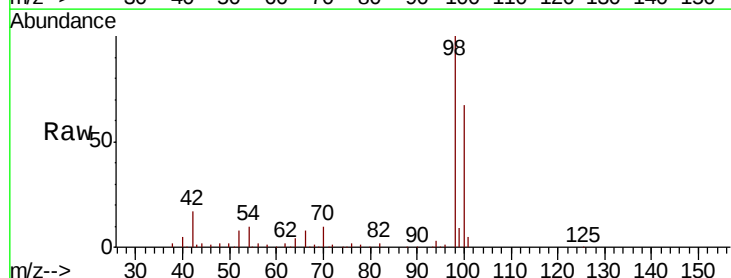


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

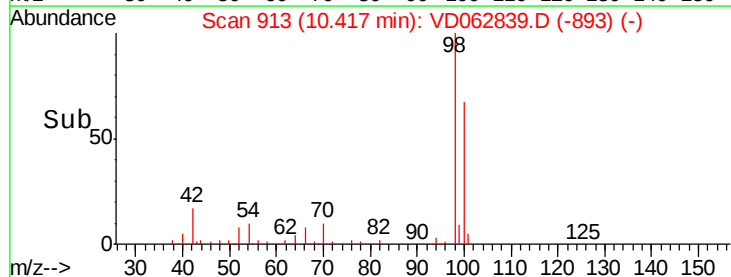
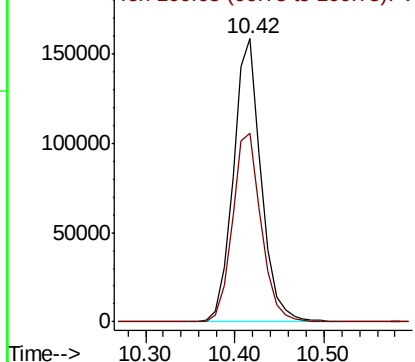


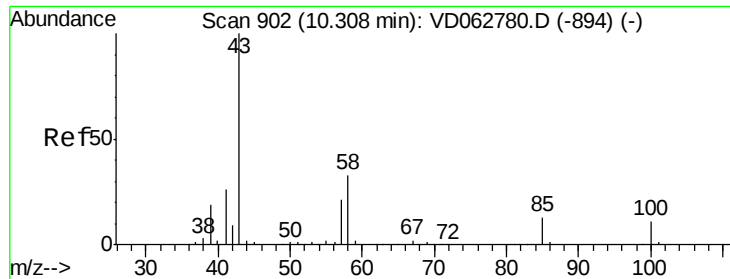
#50
Toluene-d8
Concen: 37.858 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062839.D
Acq: 24 Jun 2019 14:43

Tgt Ion: 98 Resp: 345094
Ion Ratio Lower Upper
98 100
100 66.6 54.7 82.1



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





#51

4-Methyl-2-Pentanone

Concen: 1.636 ug/l

RT: 10.41 min Scan# 912

Delta R.T. 0.10 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

Instrument :

MSVOA_D

ClientSampleId :

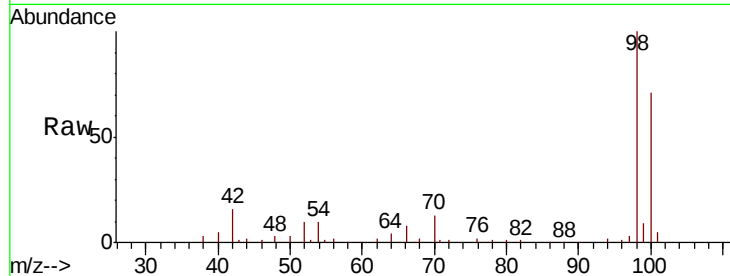
FK-PS-01-048RE

Tot Ion: 43 Resp: 2859

Ion Ratio Lower Upper

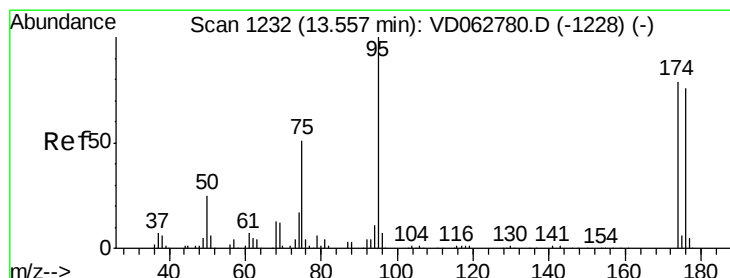
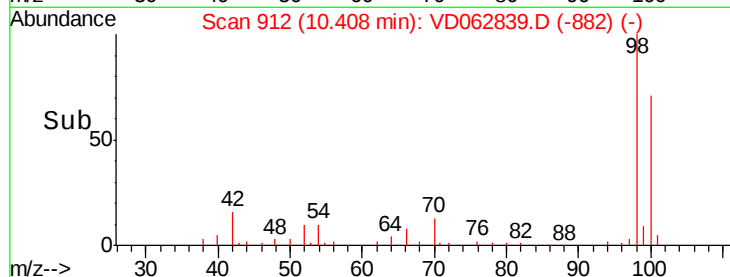
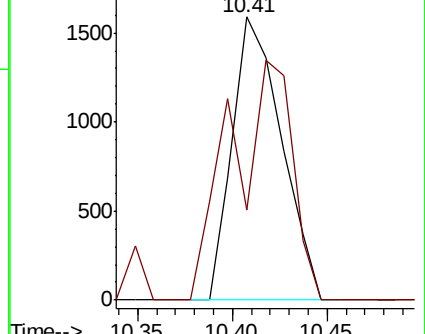
43 100

58 31.7 26.6 40.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 11.918 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

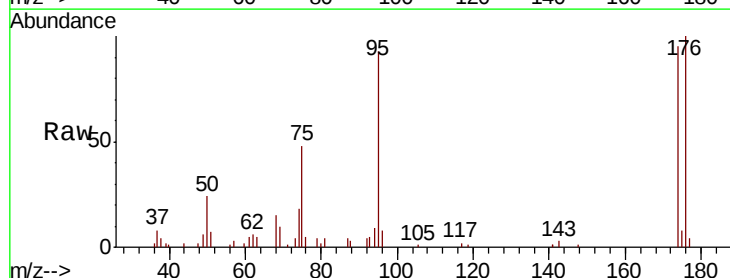
Tgt Ion: 95 Resp: 49400

Ion Ratio Lower Upper

95 100

174 102.6 0.0 158.0

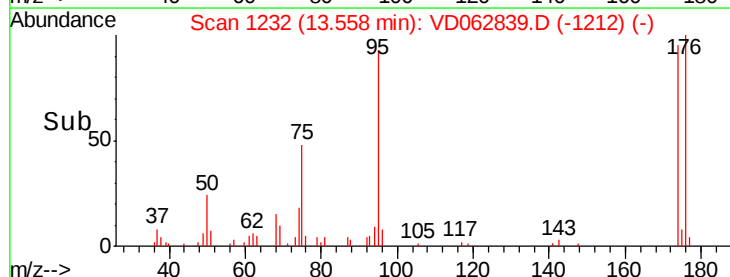
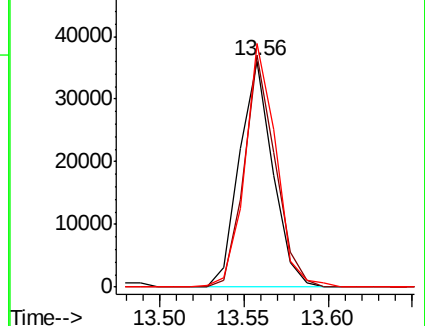
176 107.8 0.0 151.6

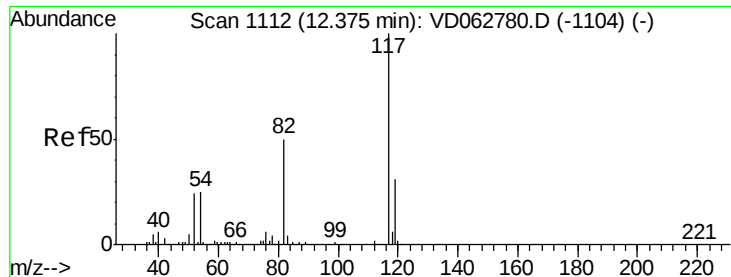


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

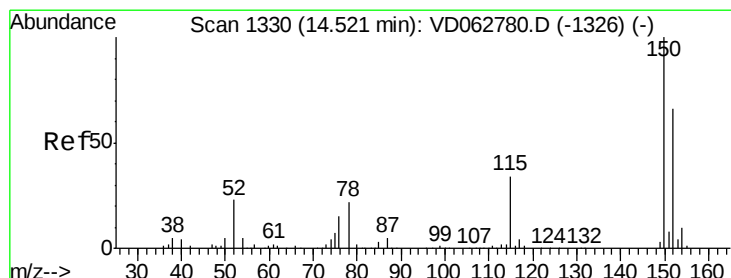
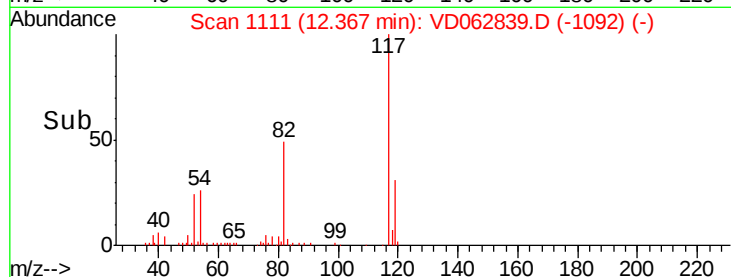
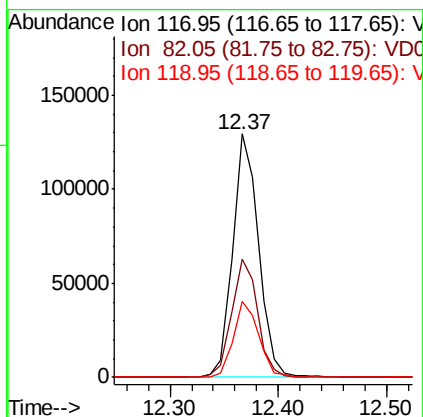
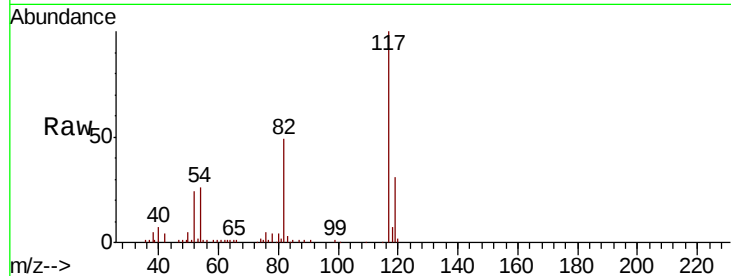




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD062839.D
Acq: 24 Jun 2019 14:43

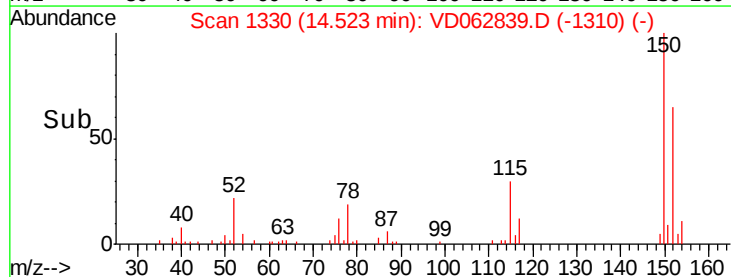
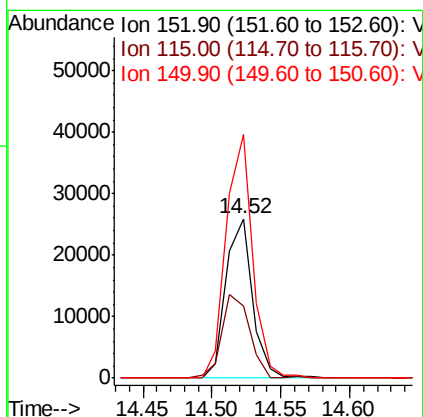
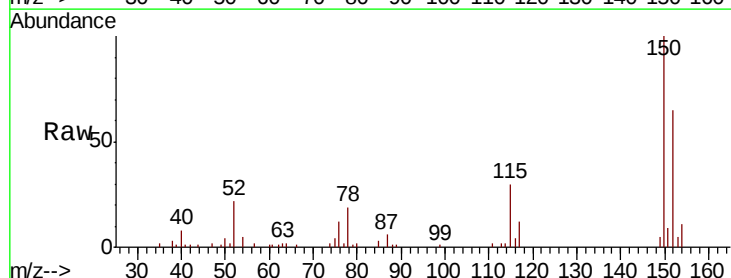
Instrument :
MSVOA_D
ClientSampleId :
FK-PS-01-048RE

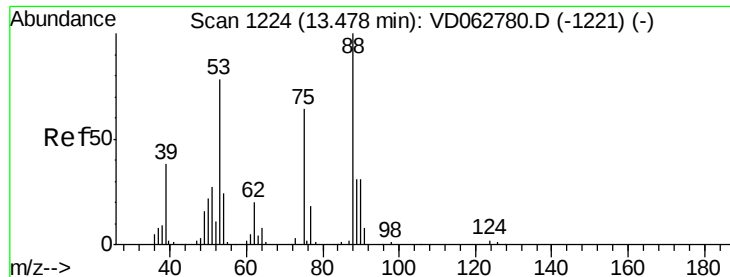
Tot Ion:117 Resp: 215517
Ion Ratio Lower Upper
117 100
82 48.6 40.4 60.6
119 31.2 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VD062839.D
Acq: 24 Jun 2019 14:43

Tgt Ion:152 Resp: 34962
Ion Ratio Lower Upper
152 100
115 45.4 29.2 87.6
150 153.0 0.0 305.8





#81

trans-1,4-Dichloro-2-butene

Concen: 233.162 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-048RE

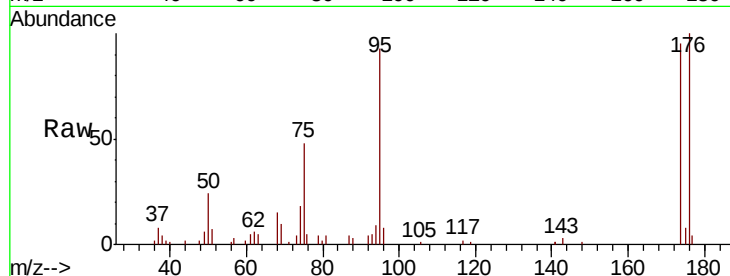
Tot Ion: 75 Resp: 24664

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

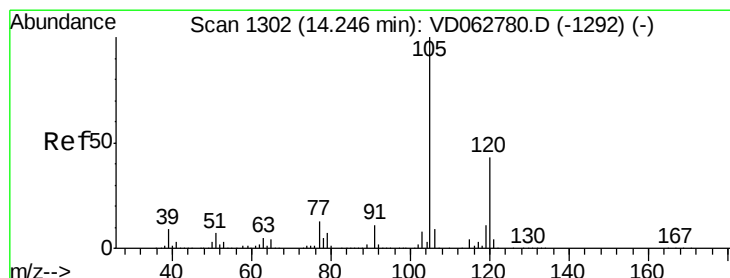
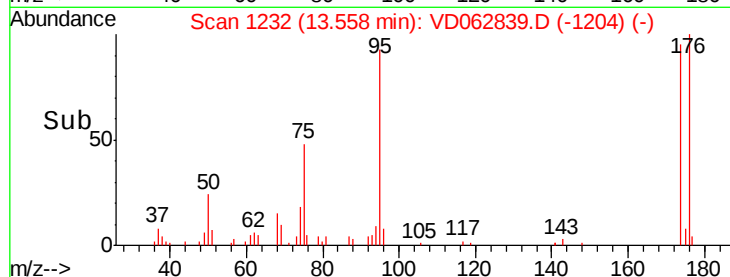
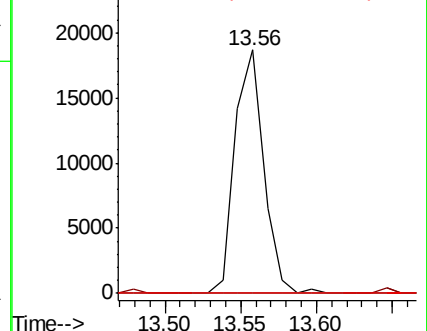
89 0.0 39.4 59.2#



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: 1.215 ug/l

RT: 14.24 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD062839.D

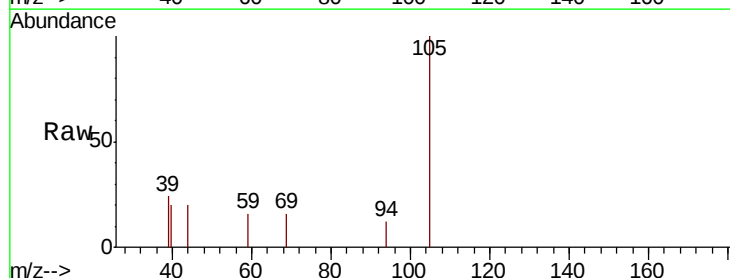
Acq: 24 Jun 2019 14:43

Tgt Ion: 105 Resp: 2344

Ion Ratio Lower Upper

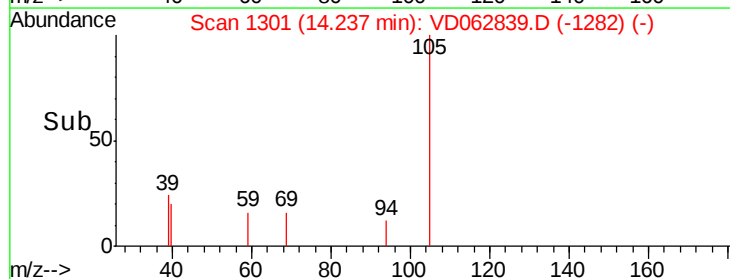
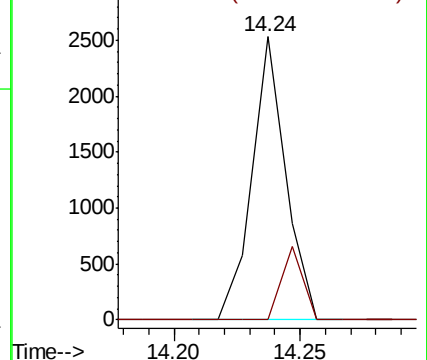
105 100

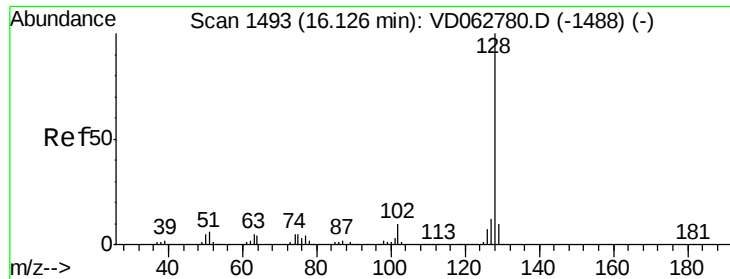
120 0.0 21.3 63.9#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#95

Naphthalene

Concen: 8.679 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.00 min

Lab File: VD062839.D

Acq: 24 Jun 2019 14:43

Instrument :

MSVOA_D

ClientSampleId :

FK-PS-01-048RE

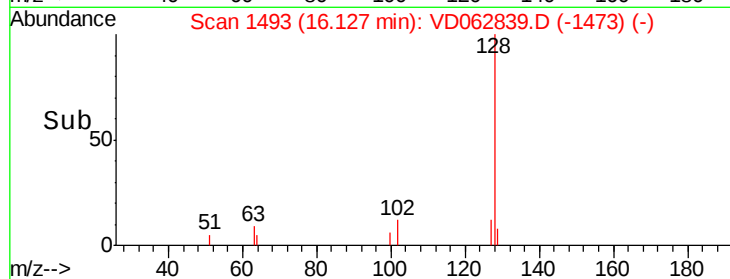
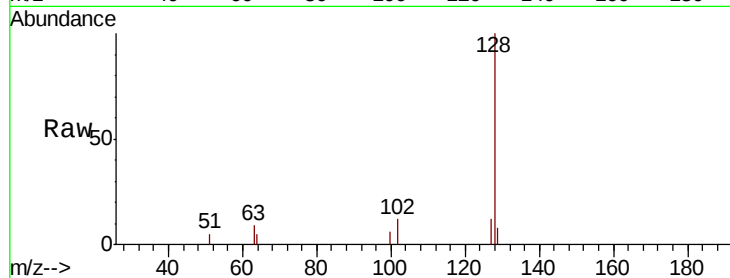
Tot Ion:128 Resp: 8787

Ion Ratio Lower Upper

128 100

127 12.2 9.7 14.5

129 7.9 8.3 12.5#



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

