

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062819\
 Data File : VD062977.D
 Acq On : 28 Jun 2019 20:24
 Operator : VA/AP
 Sample : K3555-17
 Misc : 5.37g/5ml/MSVOA D/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SAMPLE-13

Quant Time: Jun 29 00:17:29 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	7.01	168	618119	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.18	114	818346	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.35	117	670187	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.50	152	279365	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	318353	47.38	ug/l	-0.04
Spiked Amount			Recovery	=	94.76%	
35) Dibromofluoromethane	6.89	113	329436	47.74	ug/l	-0.04
Spiked Amount			Recovery	=	95.48%	
50) Toluene-d8	10.39	98	623513	41.52	ug/l	-0.03
Spiked Amount			Recovery	=	83.04%	
62) 4-Bromofluorobenzene	13.54	95	236561	34.64	ug/l	-0.02
Spiked Amount			Recovery	=	69.28%	

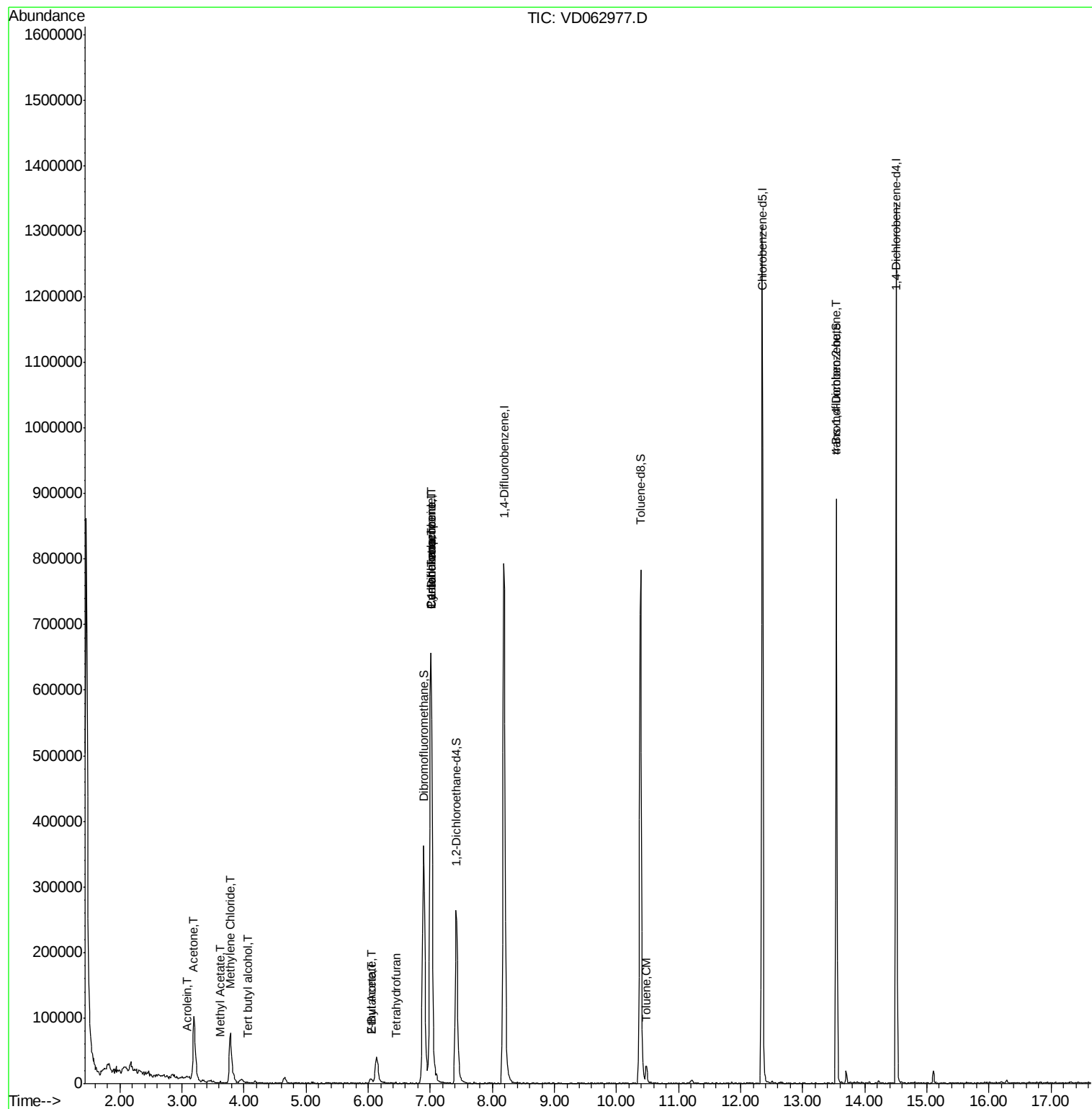
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.06	59	1813	5.925	ug/l #	77
13) Acrolein	3.08	56	339	1.085	ug/l #	15
16) Acetone	3.19	43	193817	139.146	ug/l	99
18) Methyl Acetate	3.62	43	3397	1.675	ug/l #	58
20) Methylene Chloride	3.78	84	44322	8.650	ug/l	87
25) 2-Butanone	6.04	43	16327	12.993	ug/l #	87
29) Tetrahydrofuran	6.44	42	661	1.112	ug/l #	33
31) Cyclohexane	7.00	56	15771	2.500	ug/l #	1
36) 1,1-Dichloropropene	7.00	75	49210	6.352	ug/l #	59
37) Ethyl Acetate	6.04	43	16327	4.004	ug/l #	69
38) Carbon Tetrachloride	7.01	117	65104	5.588	ug/l #	14
52) Toluene	10.48	92	11242	1.075	ug/l	89
81) trans-1,4-Dichloro-2-buten	13.54	75	112828	133.486	ug/l #	2

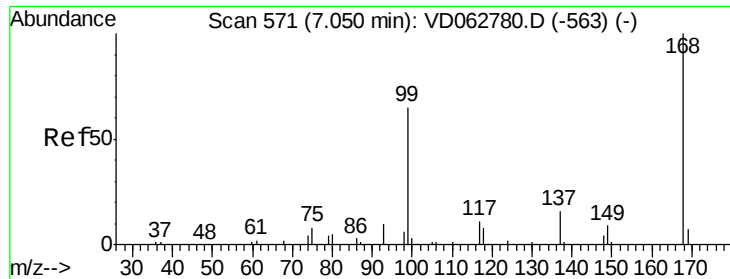
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062819\
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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.04 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

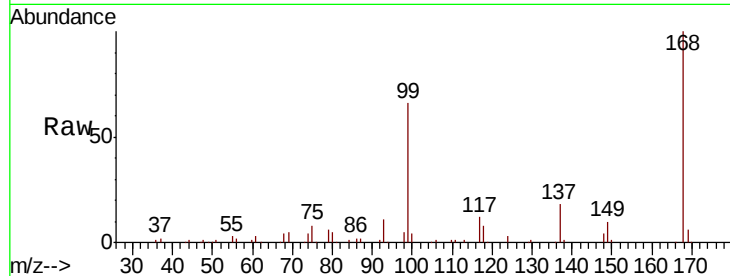
SAMPLE-13

Tot Ion:168 Resp: 618119

Ion Ratio Lower Upper

168 100

99 66.0 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.01

250000

200000

150000

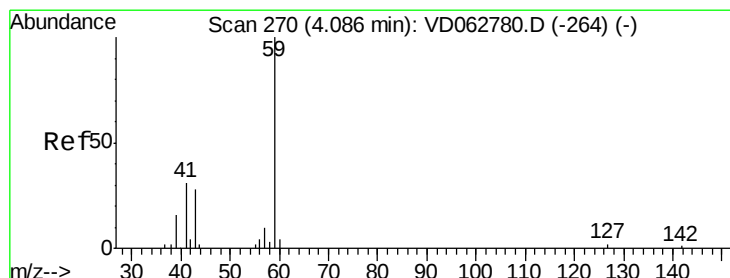
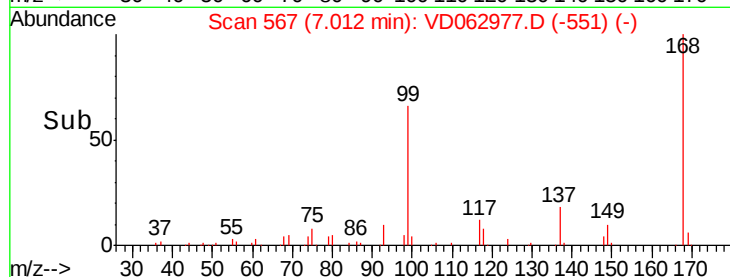
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 5.925 ug/l

RT: 4.06 min Scan# 267

Delta R.T. -0.03 min

Lab File: VD062977.D

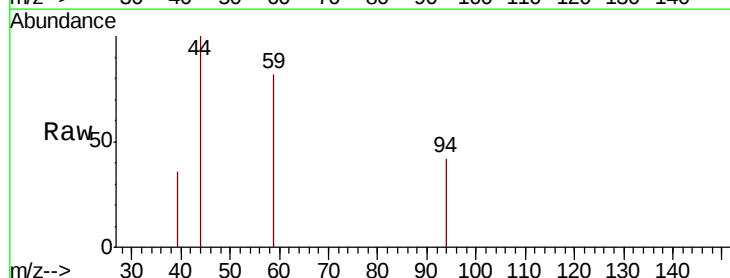
Acq: 28 Jun 2019 20:24

Tgt Ion: 59 Resp: 1813

Ion Ratio Lower Upper

59 100

57 0.0 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

4.06

800

600

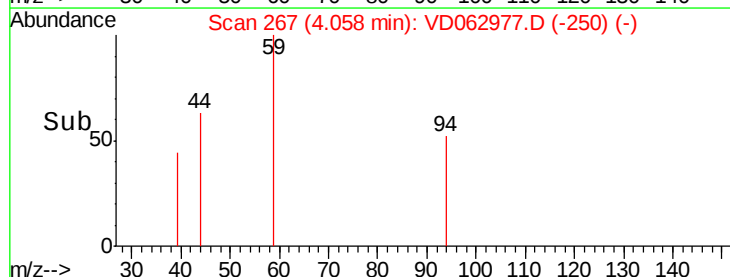
400

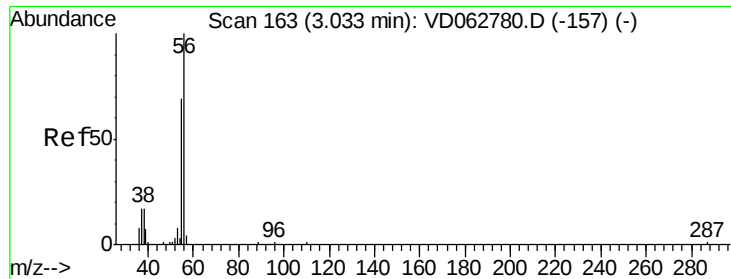
200

0

Time-->

4.00 4.05 4.10





#13

Acrolein

Concen: 1.085 ug/l

RT: 3.08 min Scan# 168

Delta R.T. 0.05 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

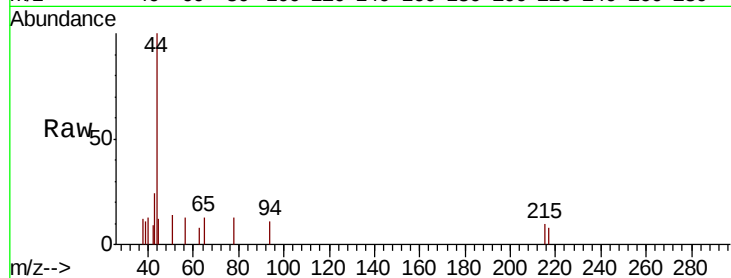
SAMPLE-13

Tot Ion: 56 Resp: 339

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

3.08

600

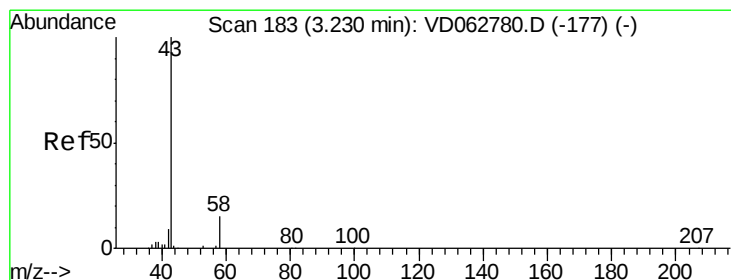
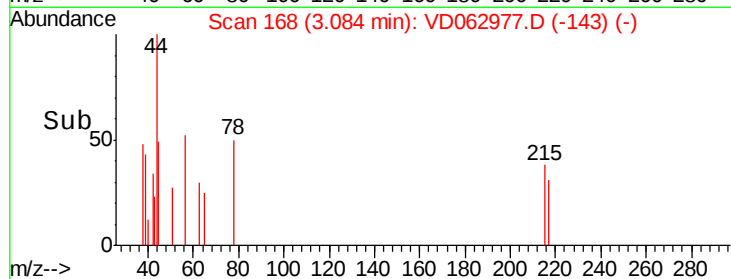
400

200

0

3.06 3.08 3.10

Time-->



#16

Acetone

Concen: 139.146 ug/l

RT: 3.19 min Scan# 179

Delta R.T. -0.04 min

Lab File: VD062977.D

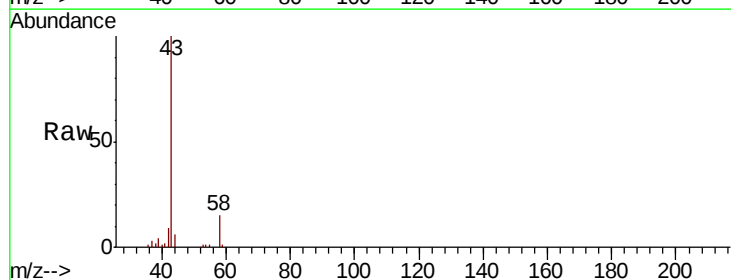
Acq: 28 Jun 2019 20:24

Tgt Ion: 43 Resp: 193817

Ion Ratio Lower Upper

43 100

58 14.5 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

80000

60000

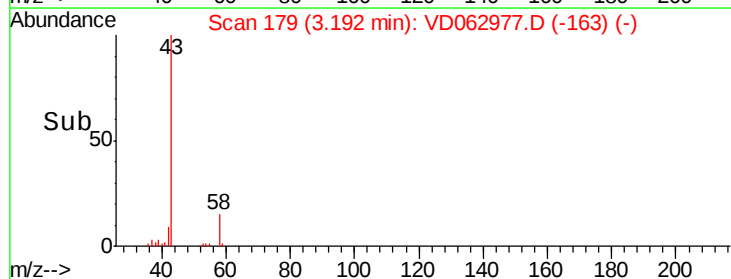
40000

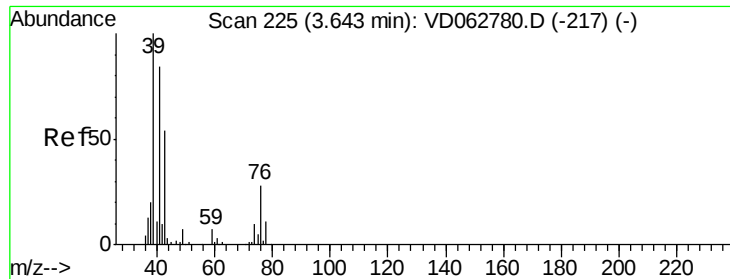
20000

0

3.10 3.19 3.20 3.30 3.40

Time-->

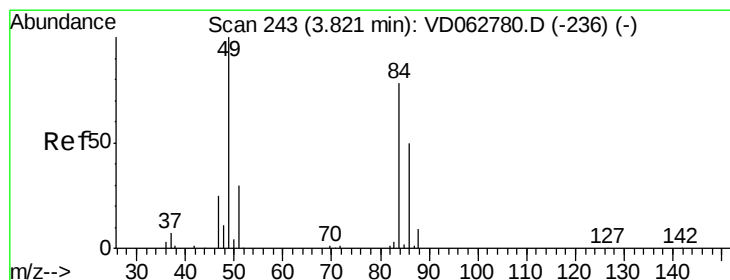
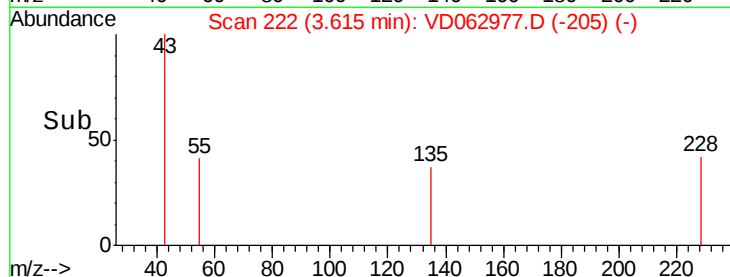
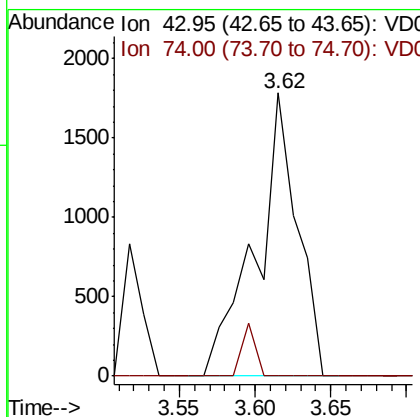
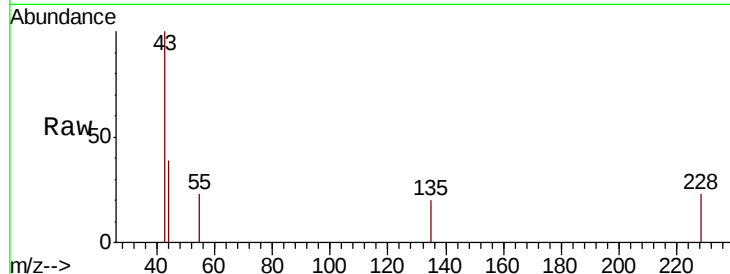




#18
Methvl Acetate
Concen: 1.675 ug/l
RT: 3.62 min Scan# 222
Delta R.T. -0.03 min
Lab File: VD062977.D
Acq: 28 Jun 2019 20:24

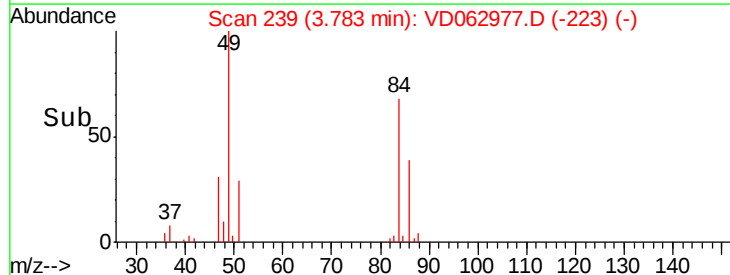
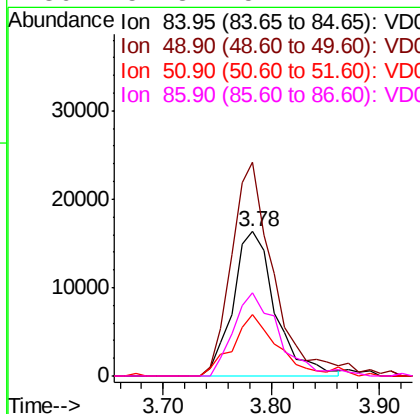
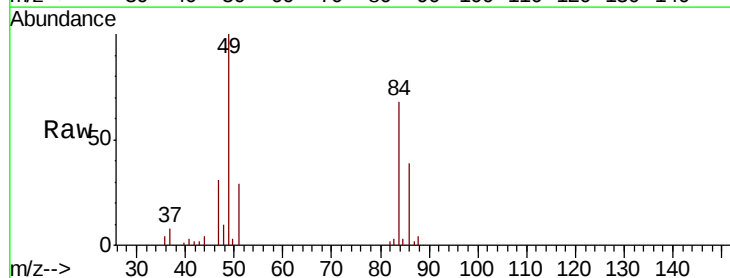
Instrument :
MSVOA_D
ClientSampleId :
SAMPLE-13

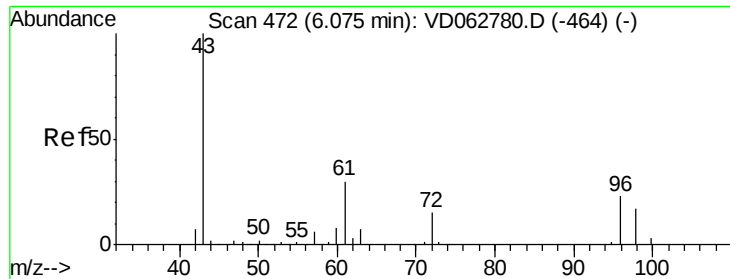
Tot Ion: 43 Resp: 3397
Ion Ratio Lower Upper
43 100
74 0.0 15.2 22.8#



#20
Methylene Chloride
Concen: 8.650 ug/l
RT: 3.78 min Scan# 239
Delta R.T. -0.04 min
Lab File: VD062977.D
Acq: 28 Jun 2019 20:24

Tgt Ion: 84 Resp: 44322
Ion Ratio Lower Upper
84 100
49 147.7 102.9 154.3
51 42.5 31.2 46.8
86 57.3 51.4 77.2





#25

2-Butanone

Concen: 12.993 ug/l

RT: 6.04 min Scan# 468

Delta R.T. -0.04 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

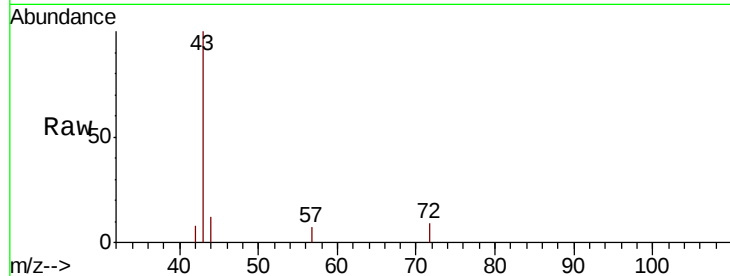
SAMPLE-13

Tot Ion: 43 Resp: 16327

Ion Ratio Lower Upper

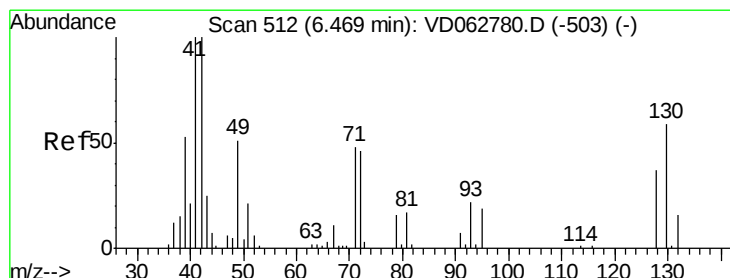
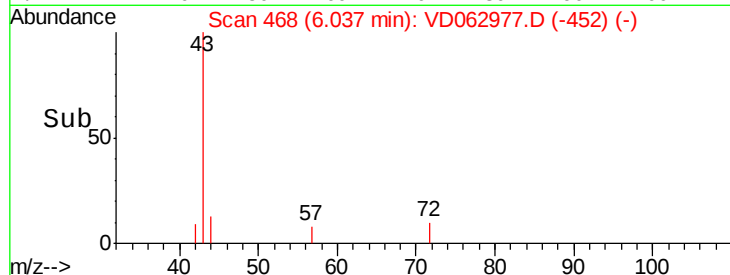
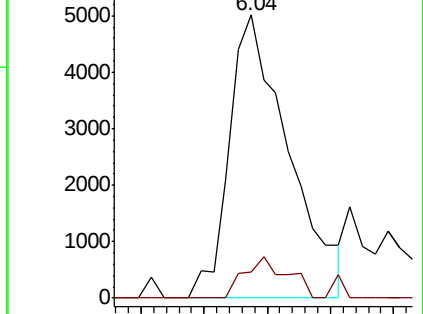
43 100

72 9.4 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.112 ug/l

RT: 6.44 min Scan# 509

Delta R.T. -0.03 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

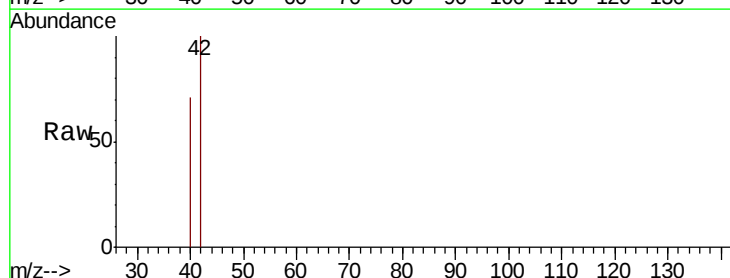
Tgt Ion: 42 Resp: 661

Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.6#

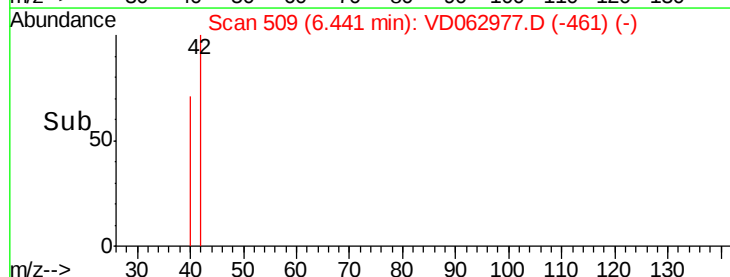
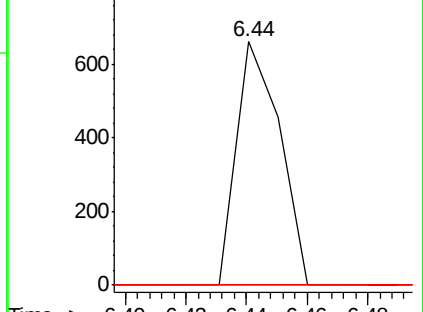
71 0.0 33.3 49.9#

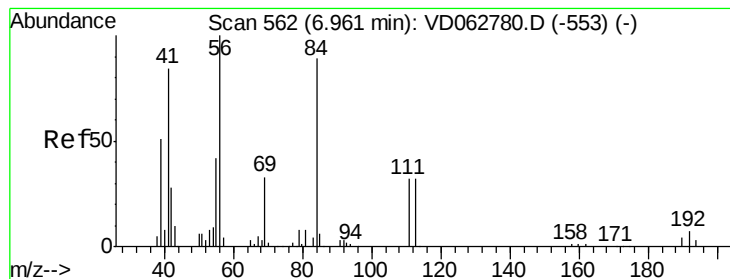


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 2.500 ug/l

RT: 7.00 min Scan# 566

Delta R.T. 0.04 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-13

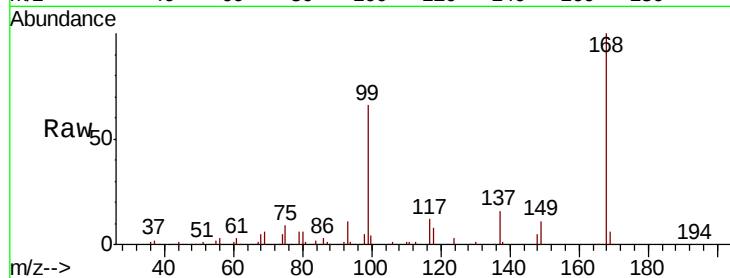
Tot Ion: 56 Resp: 15771

Ion Ratio Lower Upper

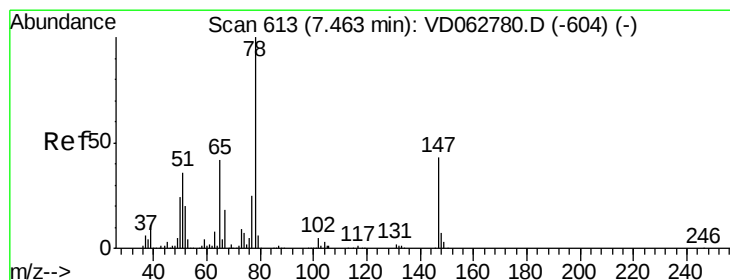
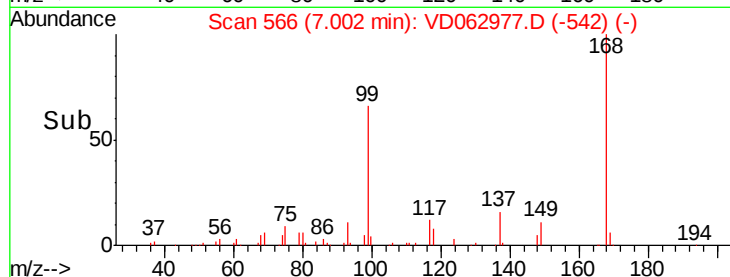
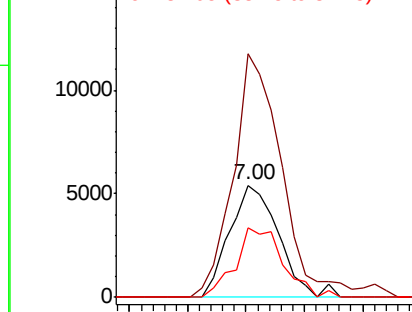
56 100

69 217.7 26.6 39.8#

84 61.7 75.5 113.3#



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: 47.382 ug/l

RT: 7.43 min Scan# 609

Delta R.T. -0.04 min

Lab File: VD062977.D

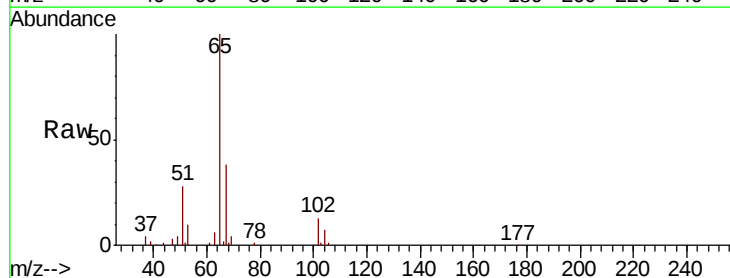
Acq: 28 Jun 2019 20:24

Tgt Ion: 65 Resp: 318353

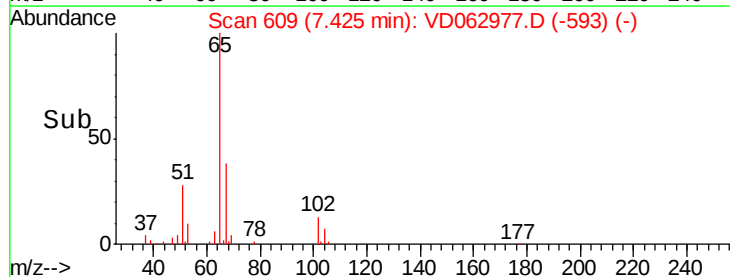
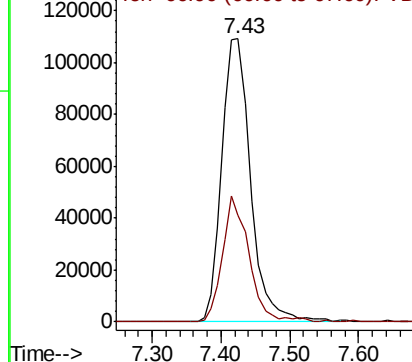
Ion Ratio Lower Upper

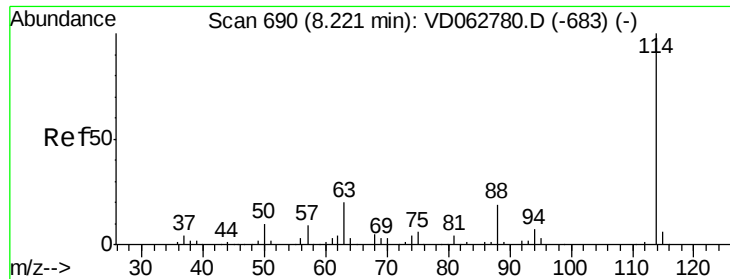
65 100

67 37.7 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

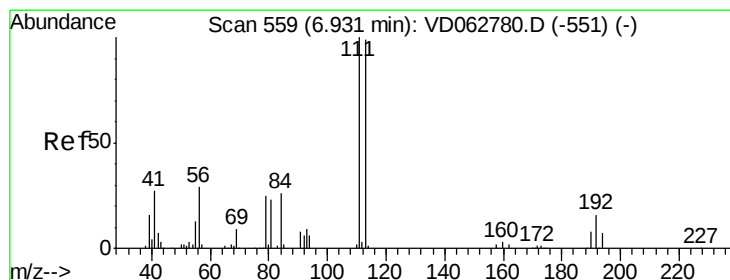
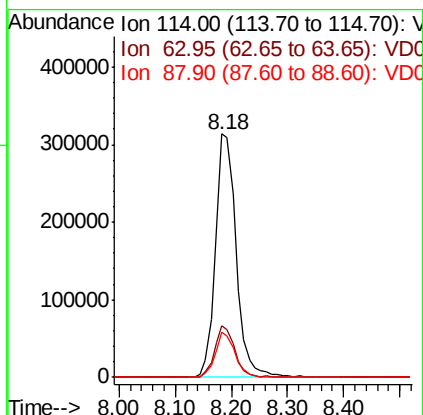
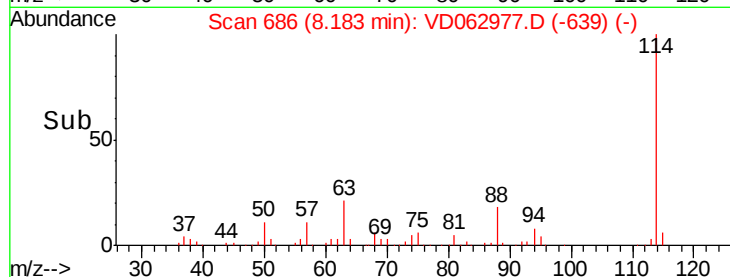
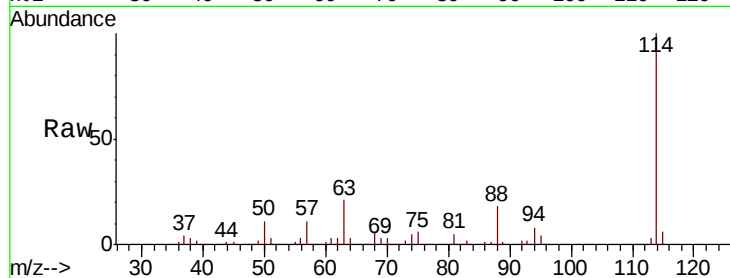




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.18 min Scan# 686
Delta R.T. -0.04 min
Lab File: VD062977.D
Acq: 28 Jun 2019 20:24

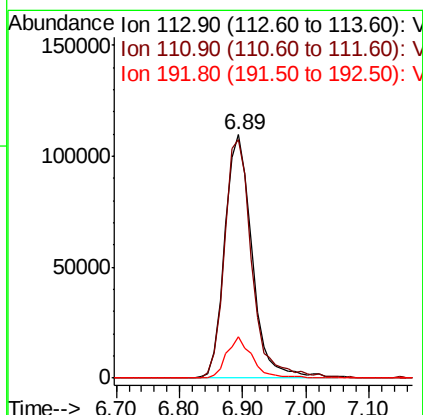
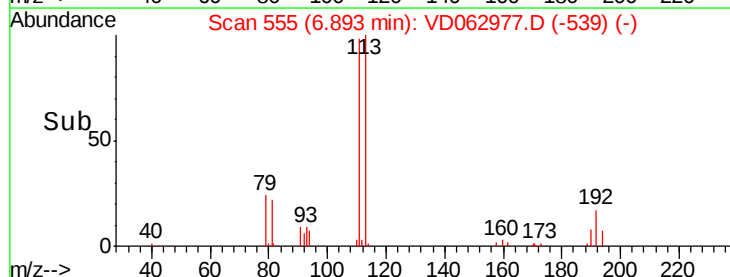
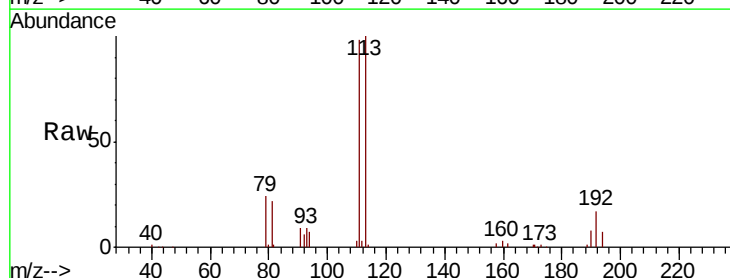
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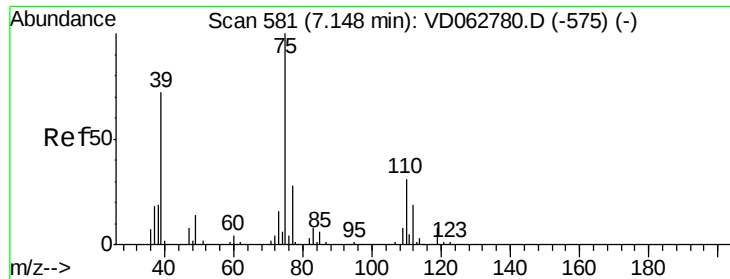
Tot Ion:114 Resp: 818346
Ion Ratio Lower Upper
114 100
63 21.2 0.0 40.0
88 18.3 0.0 38.8



#35
Dibromofluoromethane
Concen: 47.743 ug/l
RT: 6.89 min Scan# 555
Delta R.T. -0.04 min
Lab File: VD062977.D
Acq: 28 Jun 2019 20:24

Tgt Ion:113 Resp: 329436
Ion Ratio Lower Upper
113 100
111 98.2 81.2 121.8
192 17.1 12.9 19.3





#36

1,1-Dichloropropene

Concen: 6.352 ug/l

RT: 7.00 min Scan# 566

Delta R.T. -0.15 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-13

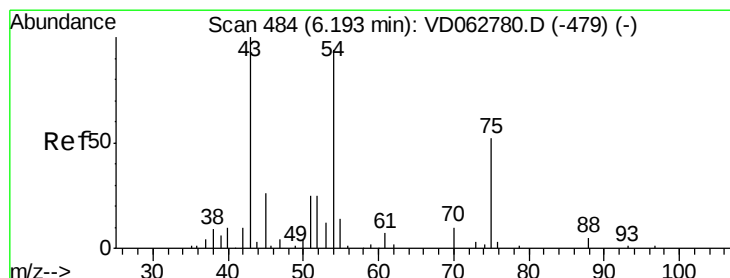
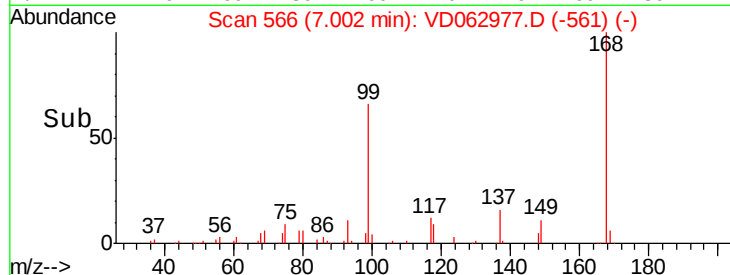
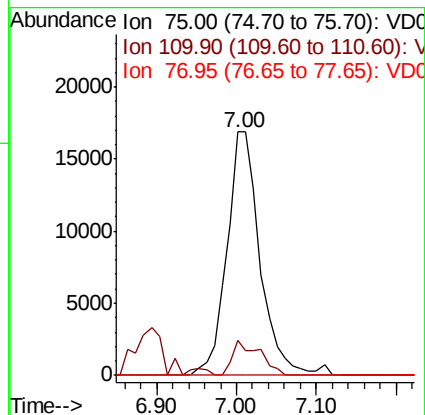
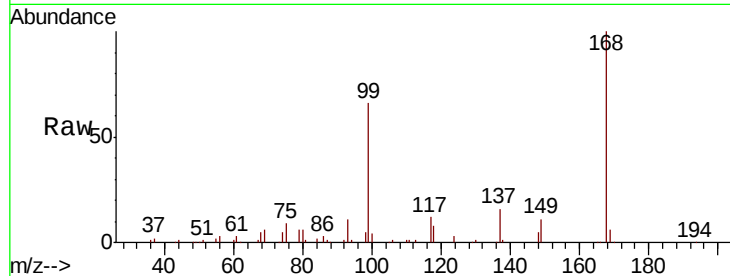
Tot Ion: 75 Resp: 49210

Ion Ratio Lower Upper

75 100

110 14.2 15.0 45.1#

77 0.0 22.2 33.2#



#37

Ethyl Acetate

Concen: 4.004 ug/l

RT: 6.04 min Scan# 468

Delta R.T. -0.16 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

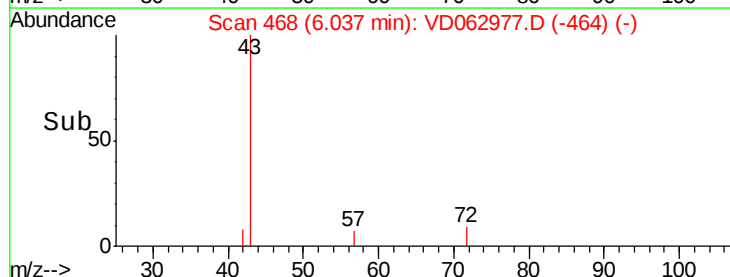
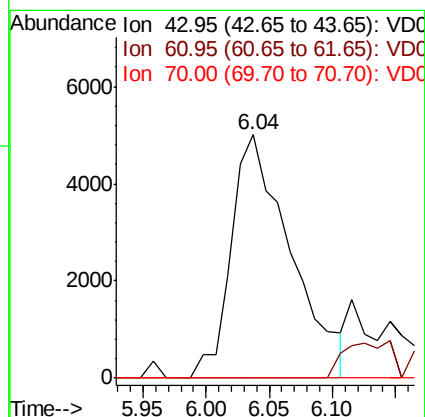
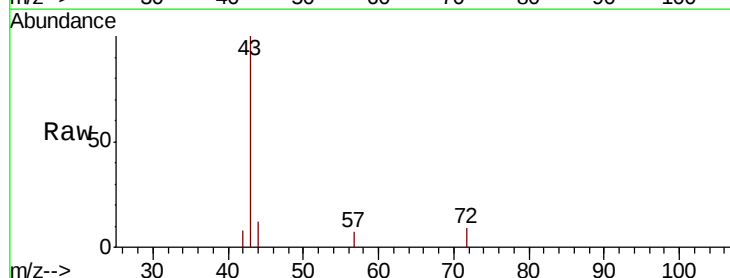
Tgt Ion: 43 Resp: 16327

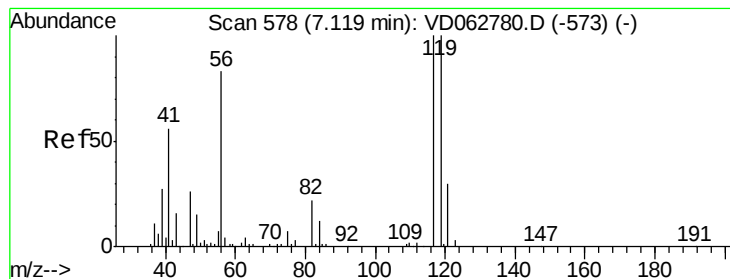
Ion Ratio Lower Upper

43 100

61 0.0 11.6 17.4#

70 0.0 6.4 9.6#





#38

Carbon Tetrachloride

Concen: 5.588 ug/l

RT: 7.01 min Scan# 567

Delta R.T. -0.11 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-13

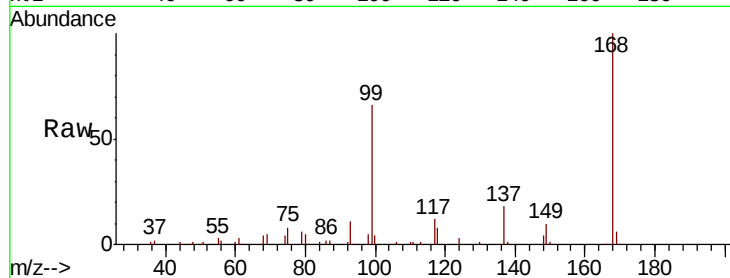
Tot Ion:117 Resp: 65104

Ion Ratio Lower Upper

117 100

119 1.6 75.4 113.2#

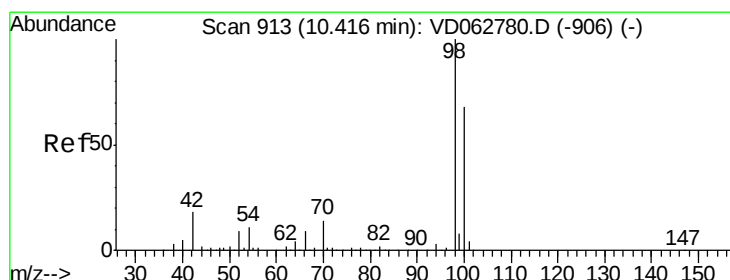
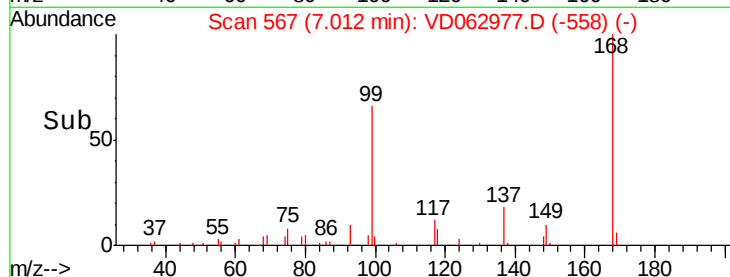
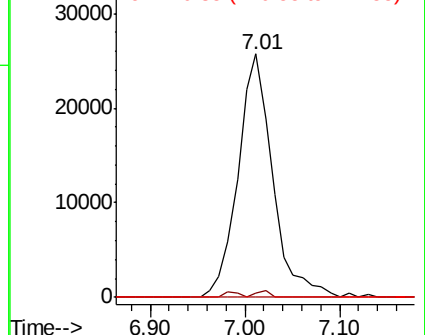
121 0.0 22.3 33.5#



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: 41.517 ug/l

RT: 10.39 min Scan# 910

Delta R.T. -0.03 min

Lab File: VD062977.D

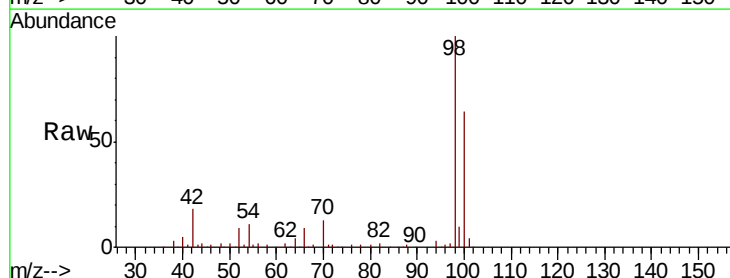
Acq: 28 Jun 2019 20:24

Tgt Ion: 98 Resp: 623513

Ion Ratio Lower Upper

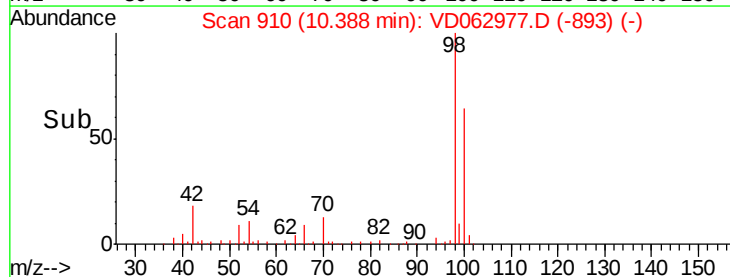
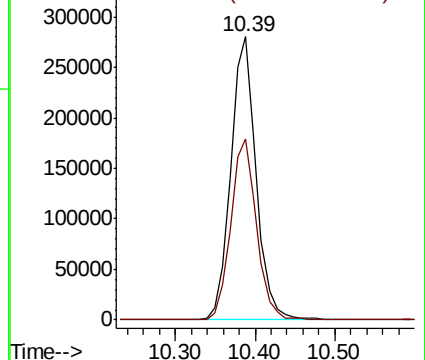
98 100

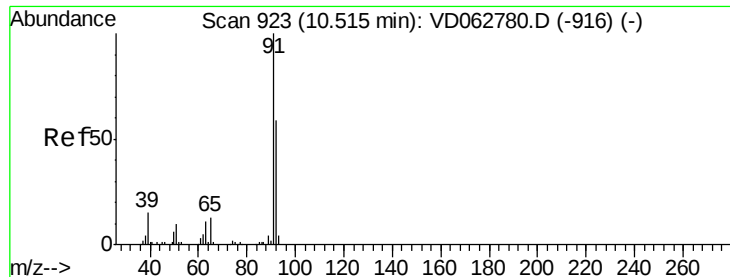
100 63.9 54.7 82.1



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#52

Toluene

Concen: 1.075 ug/l

RT: 10.48 min Scan# 919

Delta R.T. -0.04 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

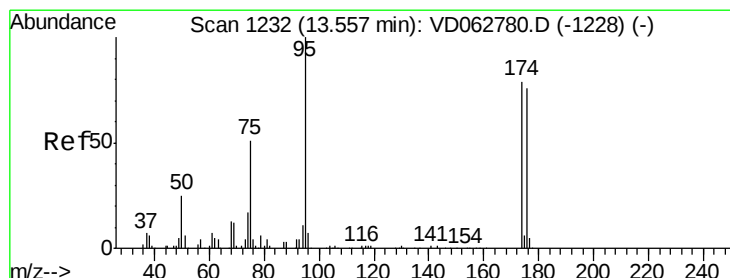
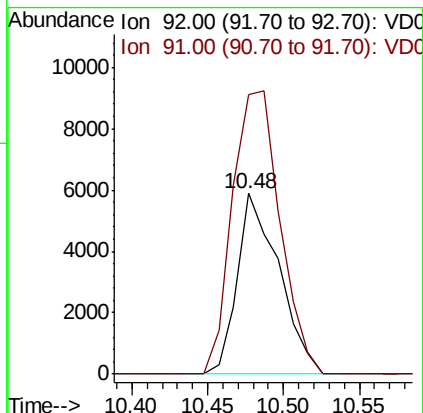
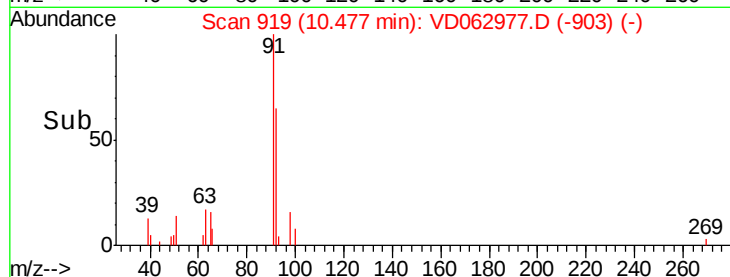
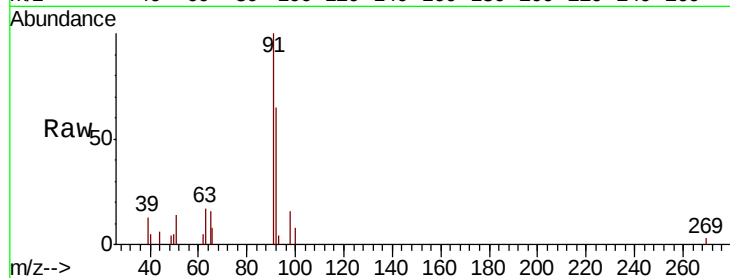
SAMPLE-13

Tot Ion: 92 Resp: 11242

Ion Ratio Lower Upper

92 100

91 154.7 136.3 204.5



#62

4-Bromofluorobenzene

Concen: 34.641 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. -0.02 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

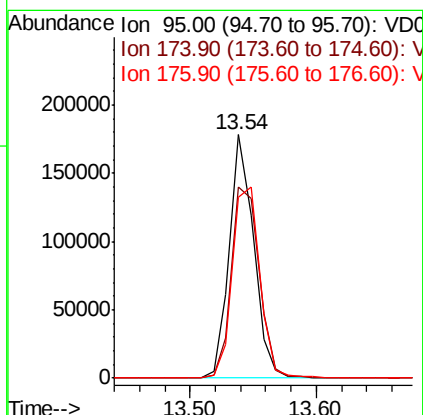
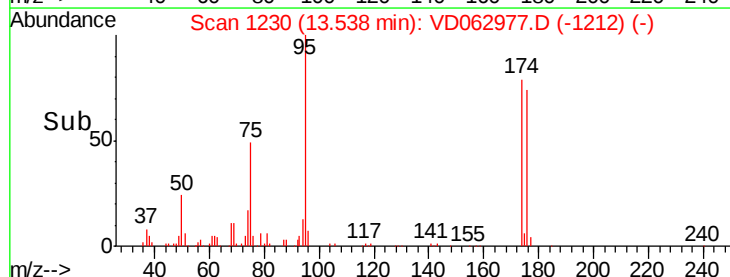
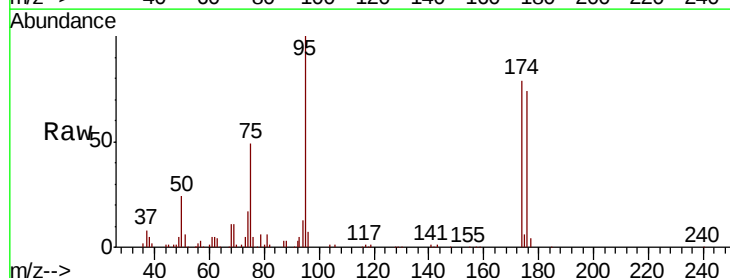
Tgt Ion: 95 Resp: 236561

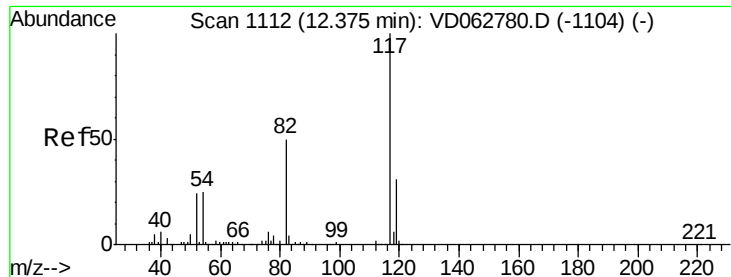
Ion Ratio Lower Upper

95 100

174 78.5 0.0 158.0

176 74.1 0.0 151.6

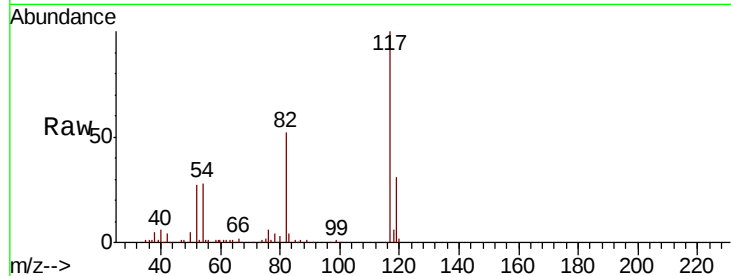




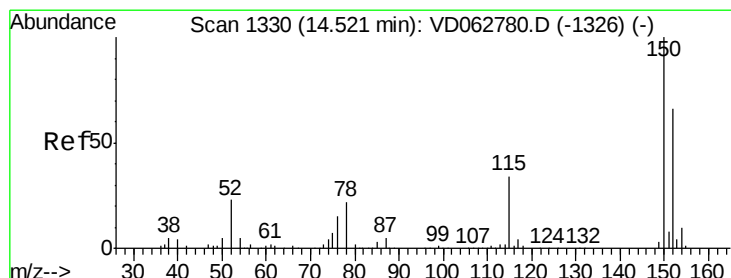
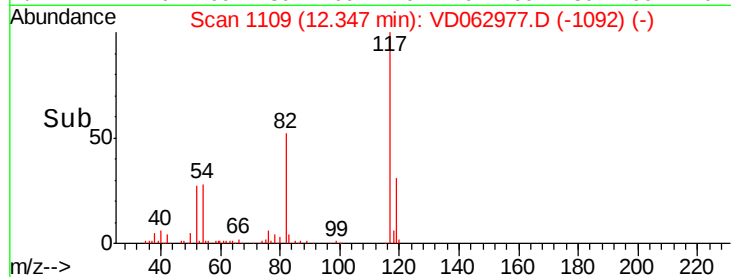
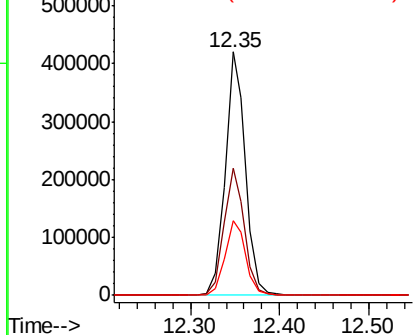
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1109
Delta R.T. -0.03 min
Lab File: VD062977.D
Acq: 28 Jun 2019 20:24

Instrument :
MSVOA_D
ClientSampleId :
SAMPLE-13

Tot Ion:117 Resp: 670187
Ion Ratio Lower Upper
117 100
82 52.4 40.4 60.6
119 30.6 25.2 37.8

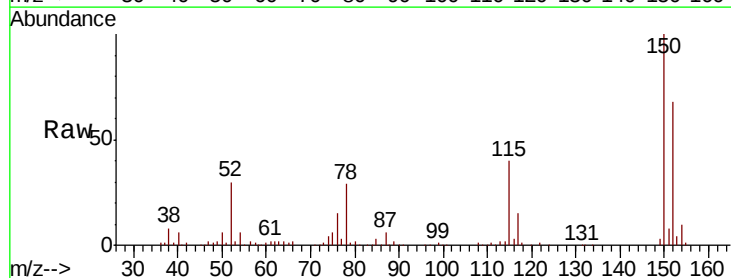


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

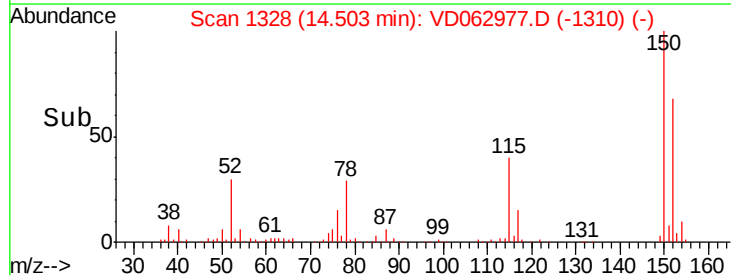
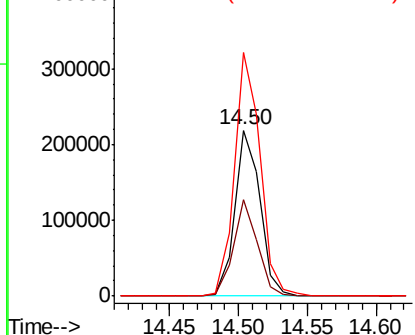


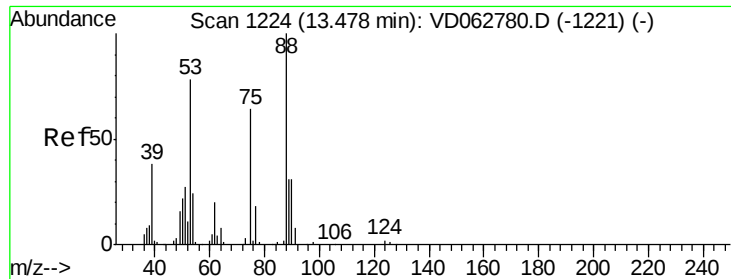
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. -0.02 min
Lab File: VD062977.D
Acq: 28 Jun 2019 20:24

Tgt Ion:152 Resp: 279365
Ion Ratio Lower Upper
152 100
115 58.4 29.2 87.6
150 146.8 0.0 305.8



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: 133.486 ug/l

RT: 13.54 min Scan# 1230

Delta R.T. 0.06 min

Lab File: VD062977.D

Acq: 28 Jun 2019 20:24

Instrument :

MSVOA_D

ClientSampleId :

SAMPLE-13

Tot Ion: 75 Resp: 112828

Ion Ratio Lower Upper

75 100

53 0.0 97.8 146.8#

89 0.0 39.4 59.2#

