

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX070620\
 Data File : VX017170.D
 Acq On : 06 Jul 2020 16:03
 Operator : JC/SP
 Sample : L3159-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 65BR-20200629

Quant Time: Jul 07 06:50:46 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	281538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	467229	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	473798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	271364	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	172740	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	5.47	113	148215	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
50) Toluene-d8	8.70	98	556537	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
62) 4-Bromofluorobenzene	11.12	95	239836	56.14	ug/l	0.00
Spiked Amount			Recovery	=	112.28%	

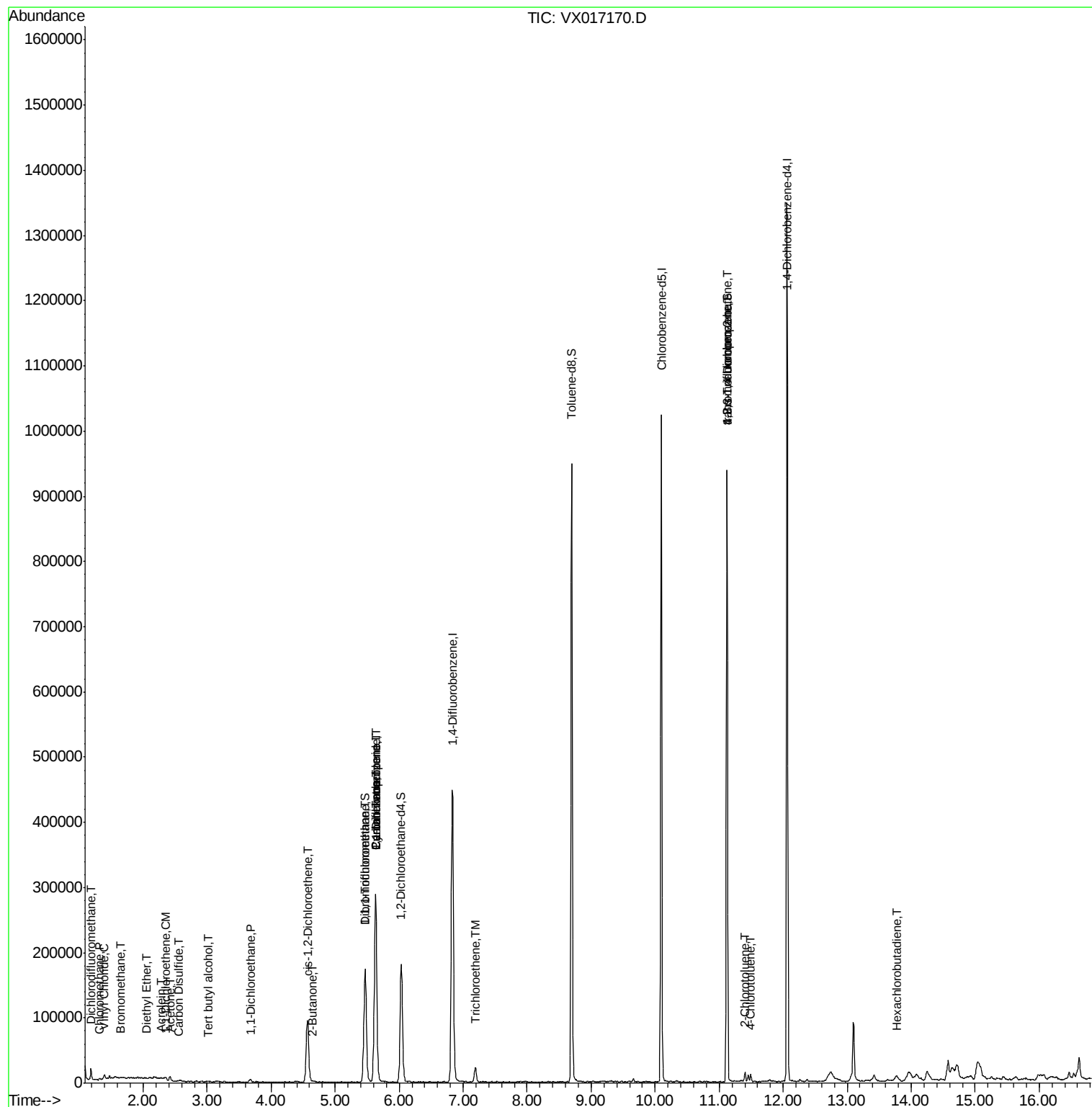
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	7727	2.837	ug/l	95
3) Chloromethane	1.31	50	1386	0.420	ug/l #	77
4) Vinyl Chloride	1.39	62	4282	1.400	ug/l	92
5) Bromomethane	1.64	94	645	0.399	ug/l #	3
8) Diethyl Ether	2.06	74	124	0.446	ug/l	62
11) Tert butyl alcohol	3.02	59	1021	1.542	ug/l	98
12) 1,1-Dichloroethene	2.36	96	677	0.243	ug/l	90
13) Acrolein	2.28	56	343	0.867	ug/l	84
16) Acetone	2.42	43	7156	5.511	ug/l	91
17) Carbon Disulfide	2.55	76	1573	0.225	ug/l #	53
20) Methylene Chloride	2.85	84	527	Below Cal	#	57
24) 1,1-Dichloroethane	3.68	63	3992	0.736	ug/l #	93
25) 2-Butanone	4.65	43	1818	0.840	ug/l	91
27) cis-1,2-Dichloroethene	4.57	96	61768	17.636	ug/l	89
31) Cyclohexane	5.64	56	5572	1.189	ug/l #	1
32) 1,1,1-Trichloroethane	5.46	97	1569	0.307	ug/l #	45
36) 1,1-Dichloropropene	5.63	75	19606	4.440	ug/l #	52
38) Carbon Tetrachloride	5.63	117	27553	5.665	ug/l #	18
44) Trichloroethene	7.20	130	8177	1.987	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	119665	22.425	ug/l #	37
79) 2-Chlorotoluene	11.40	91	6309	0.519	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.12	75	119665	58.073	ug/l #	13
82) 4-Chlorotoluene	11.49	91	4144	0.285	ug/l	86
88) 1,4-Dichlorobenzene	12.01	146	551	Below Cal		91
94) Hexachlorobutadiene	13.77	225	234	0.951	ug/l	95

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

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Acq On : 06 Jul 2020 16:03
Operator : JC/SP
Sample : L3159-02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
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ClientSampleId :
65BR-20200629

Quant Time: Jul 07 06:50:46 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 29 17:10:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

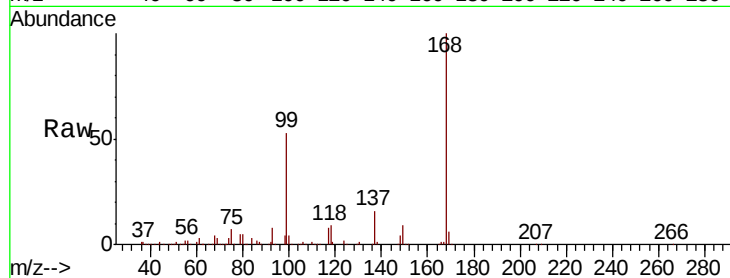
65BR-20200629

Tot Ion:168 Resp: 281538

Ion Ratio Lower Upper

168 100

99 53.3 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

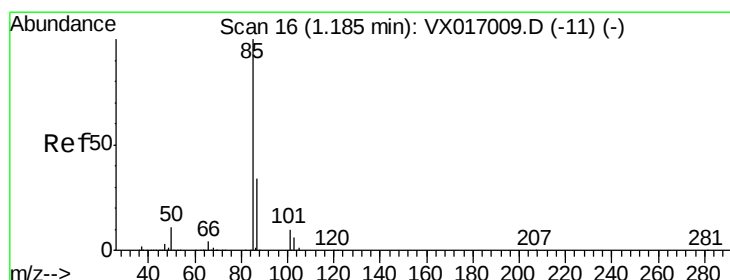
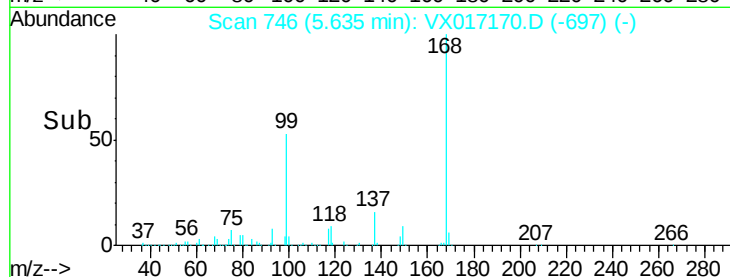
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.837 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX017170.D

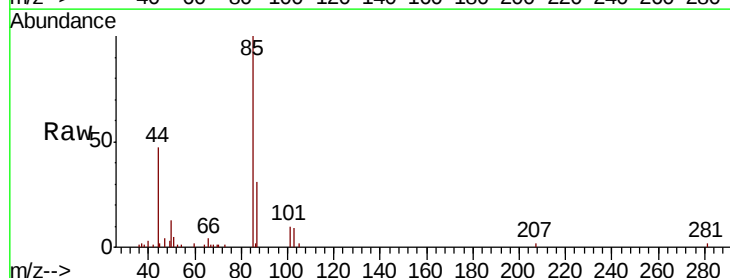
Acq: 06 Jul 2020 16:03

Tgt Ion: 85 Resp: 7727

Ion Ratio Lower Upper

85 100

87 30.5 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

10000

8000

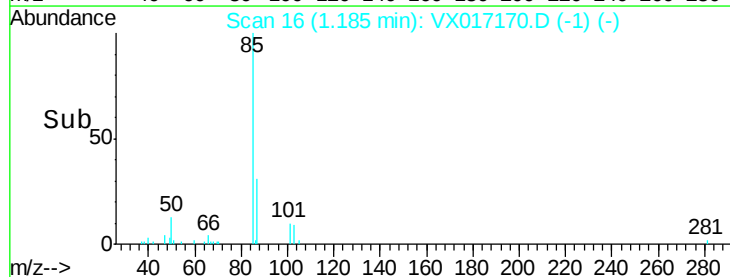
6000

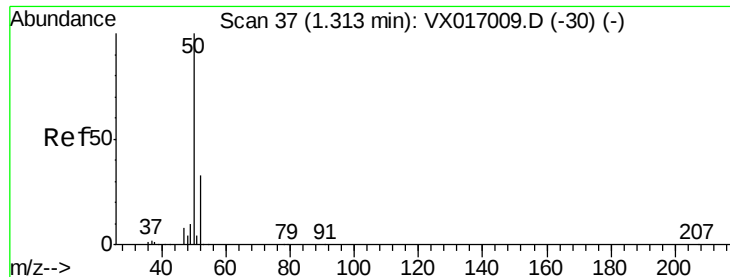
4000

2000

0

Time-->





#3

Chloromethane

Concen: 0.420 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

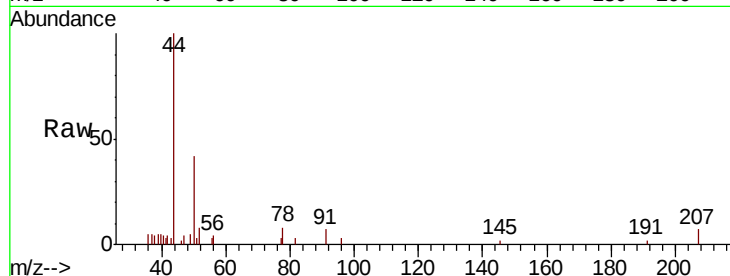
65BR-20200629

Tot Ion: 50 Resp: 1386

Ion Ratio Lower Upper

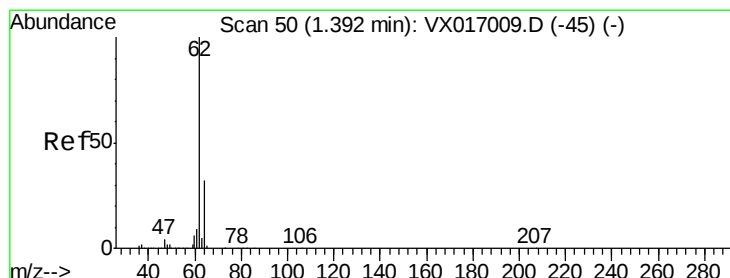
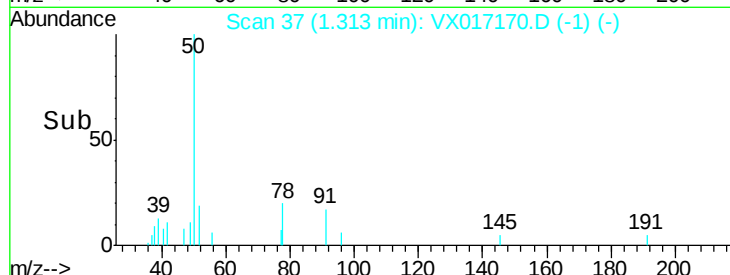
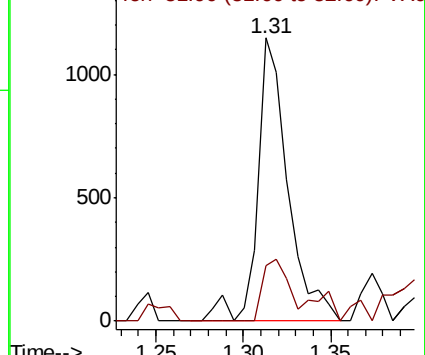
50 100

52 19.4 26.1 39.1#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 1.400 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX017170.D

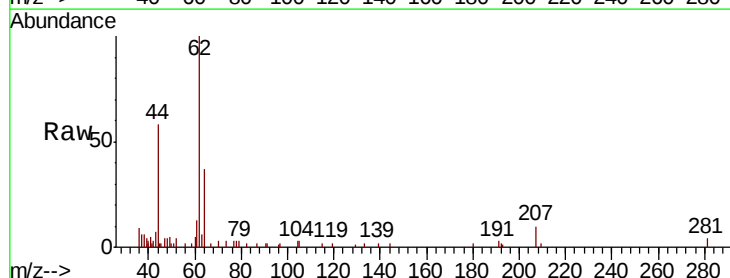
Acq: 06 Jul 2020 16:03

Tgt Ion: 62 Resp: 4282

Ion Ratio Lower Upper

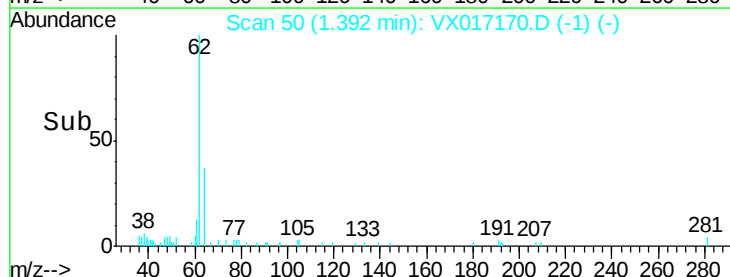
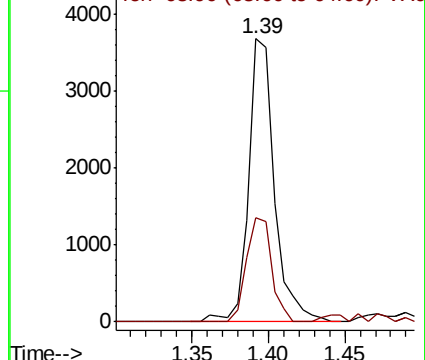
62 100

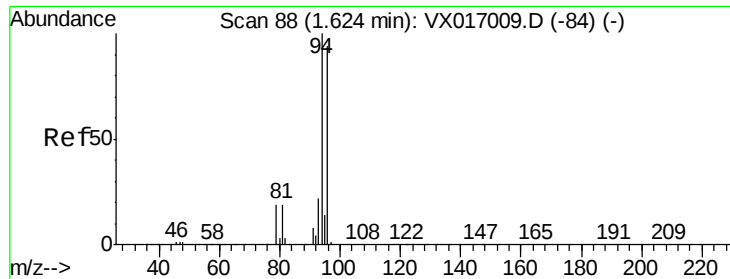
64 36.9 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.399 ug/l

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

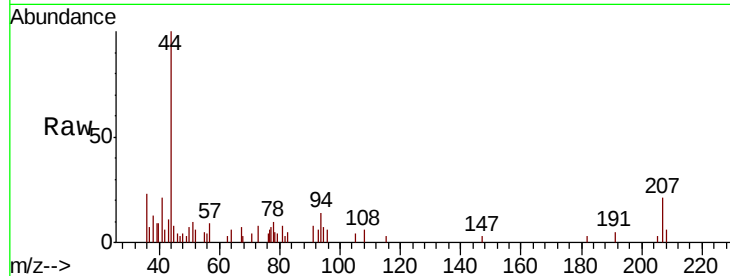
65BR-20200629

Tot Ion: 94 Resp: 645

Ion Ratio Lower Upper

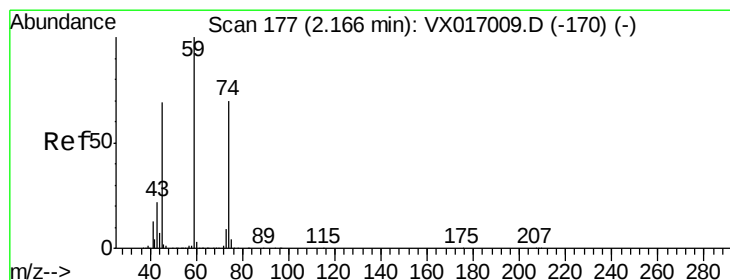
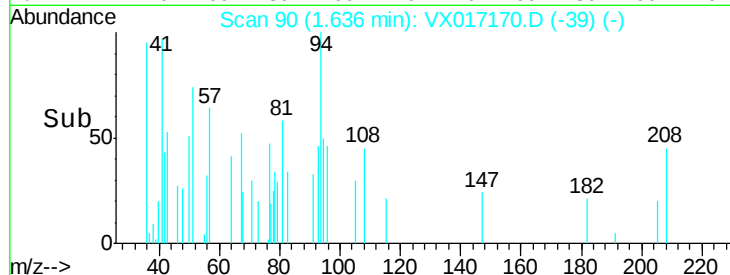
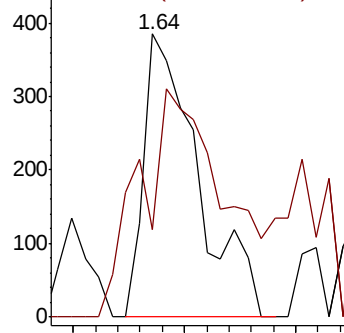
94 100

96 0.0 75.0 112.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: 0.446 ug/l

RT: 2.06 min Scan# 159

Delta R.T. -0.11 min

Lab File: VX017170.D

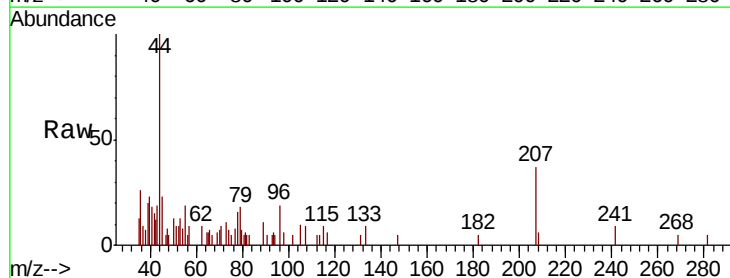
Acq: 06 Jul 2020 16:03

Tgt Ion: 74 Resp: 124

Ion Ratio Lower Upper

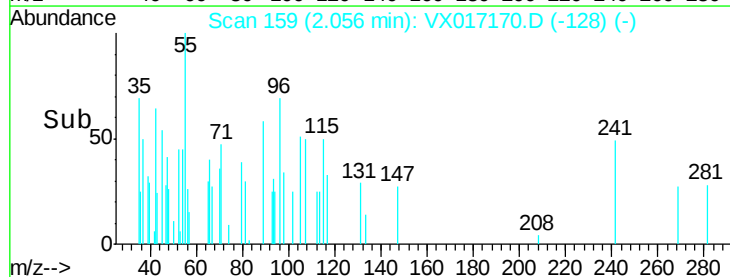
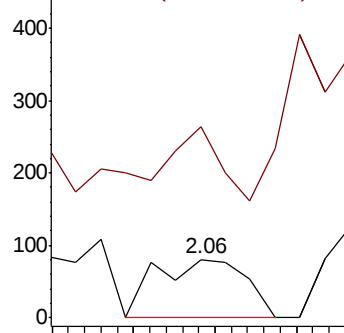
74 100

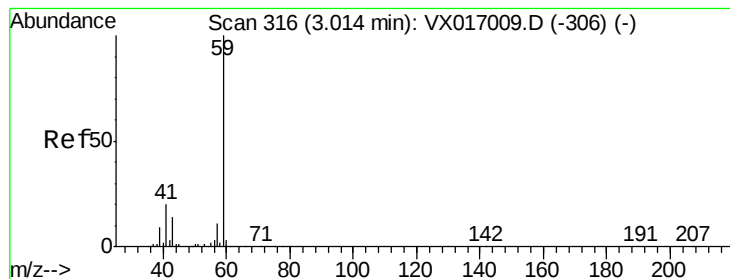
45 61.3 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



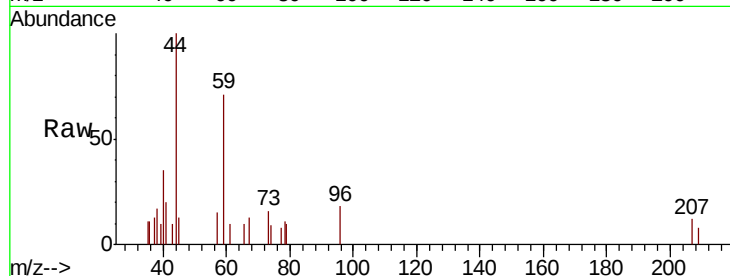


#11

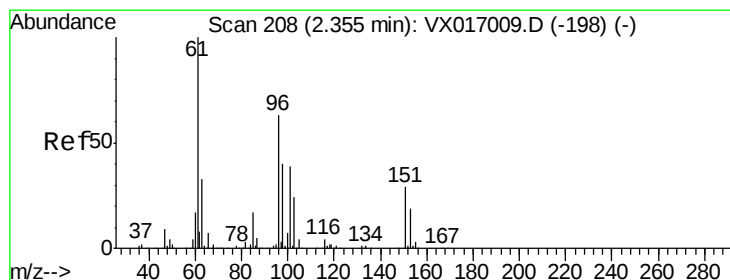
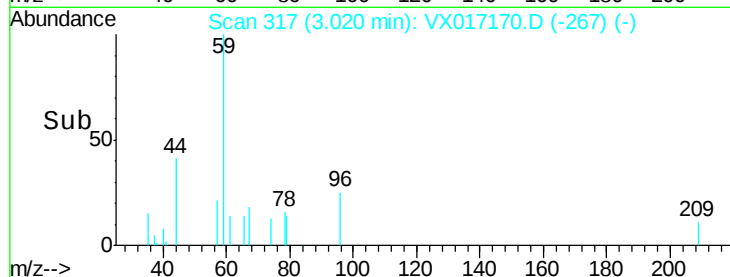
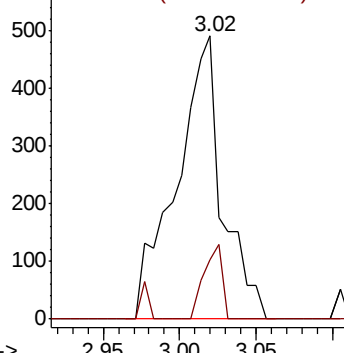
Tert butyl alcohol
Concen: 1.542 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

Instrument :
MSVOA_X
ClientSampleId :
65BR-20200629

Tot Ion: 59 Resp: 1021
Ion Ratio Lower Upper
59 100
57 10.8 8.2 12.2



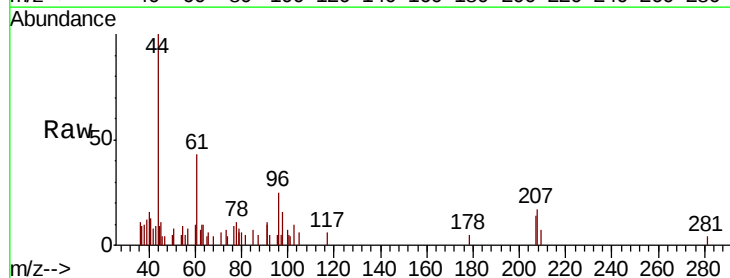
Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0



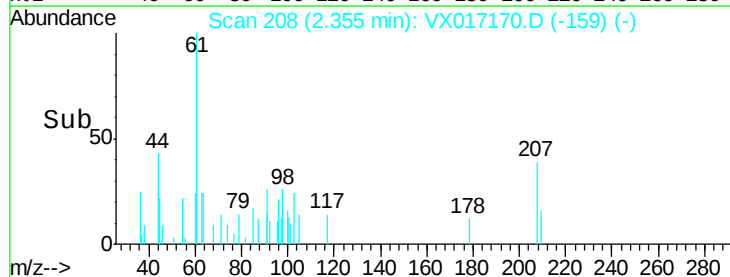
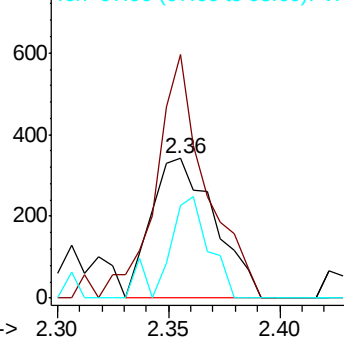
#12

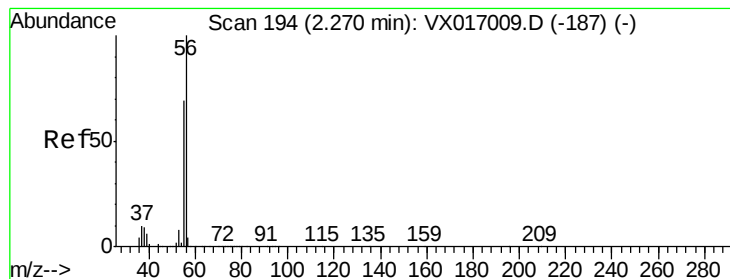
1,1-Dichloroethene
Concen: 0.243 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

Tgt Ion: 96 Resp: 677
Ion Ratio Lower Upper
96 100
61 174.3 126.3 189.5
98 66.4 51.0 76.6



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: 0.867 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

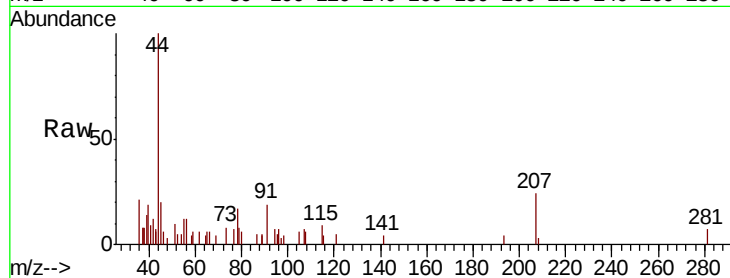
65BR-20200629

Tot Ion: 56 Resp: 343

Ion Ratio Lower Upper

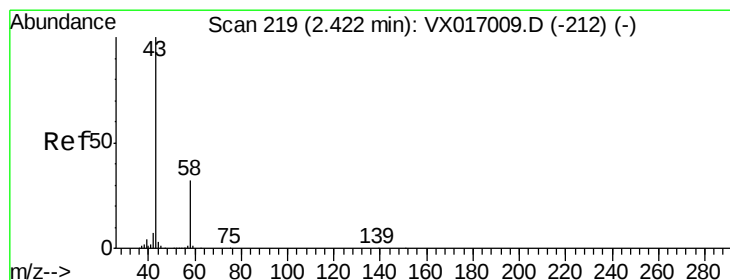
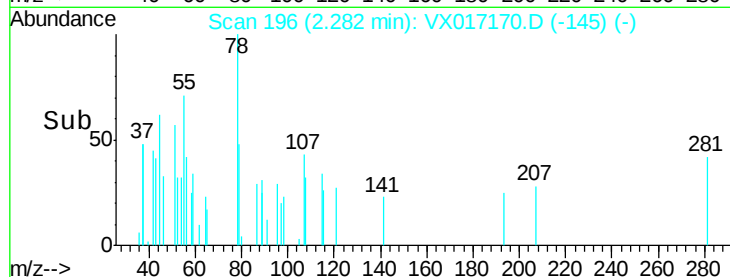
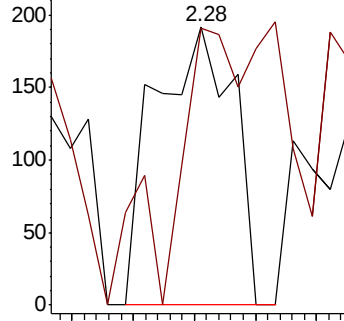
56 100

55 82.8 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 5.511 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017170.D

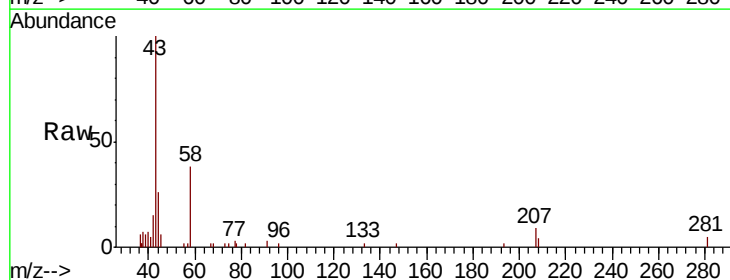
Acq: 06 Jul 2020 16:03

Tgt Ion: 43 Resp: 7156

Ion Ratio Lower Upper

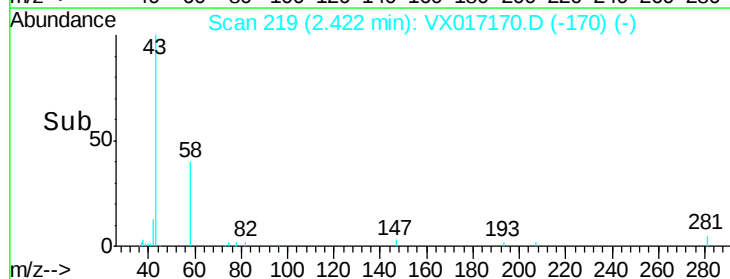
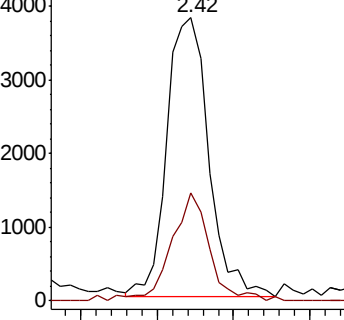
43 100

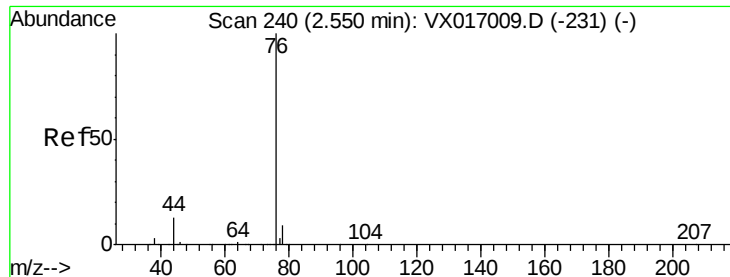
58 37.2 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

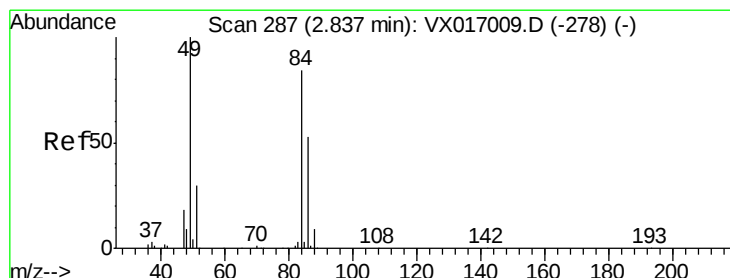
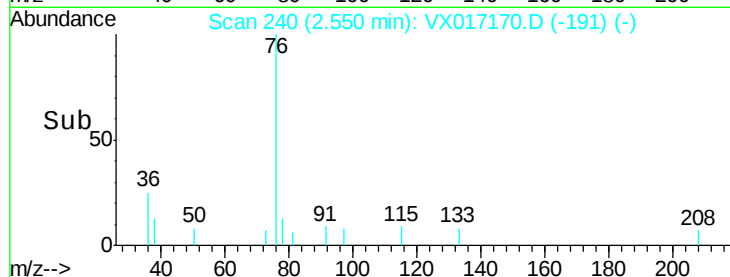
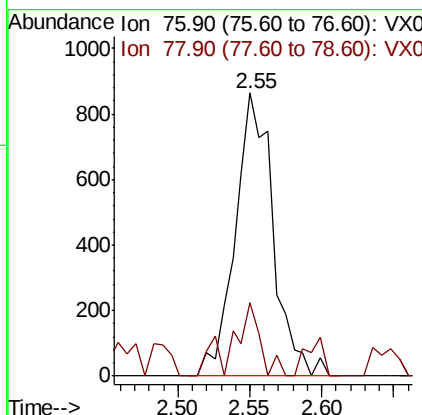
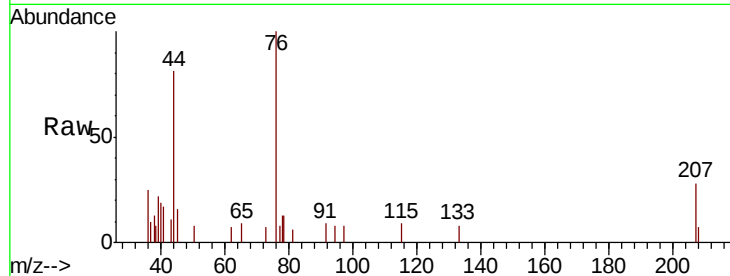




#17
Carbon Disulfide
Concen: 0.225 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

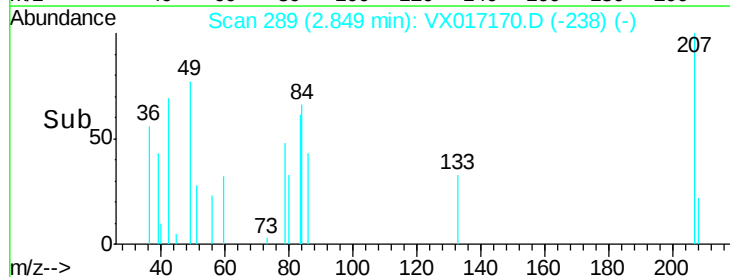
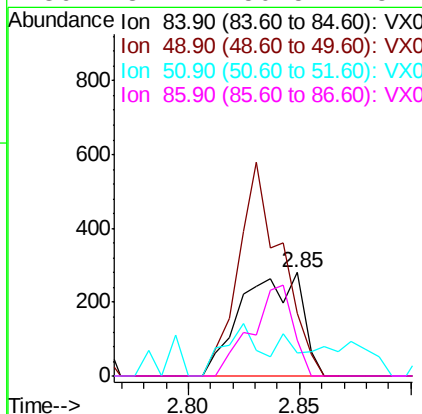
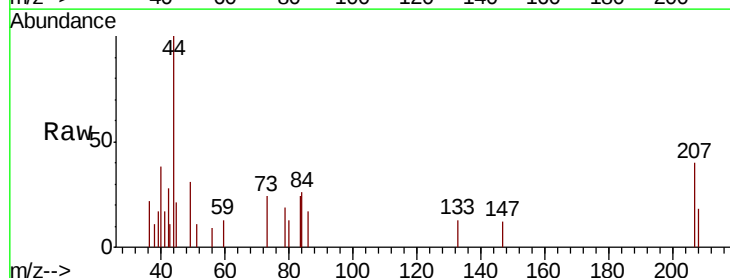
Instrument :
MSVOA_X
ClientSampleId :
65BR-20200629

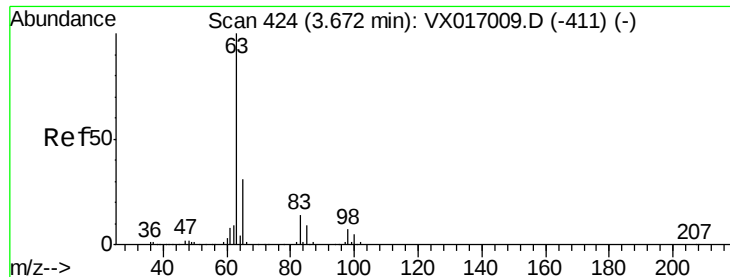
Tot Ion: 76 Resp: 1573
Ion Ratio Lower Upper
76 100
78 26.2 7.2 10.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 289
Delta R.T. 0.01 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

Tgt Ion: 84 Resp: 527
Ion Ratio Lower Upper
84 100
49 60.5 94.7 142.1#
51 22.1 28.6 42.8#
86 34.2 50.5 75.7#





#24

1,1-Dichloroethane

Concen: 0.736 ug/l

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

65BR-20200629

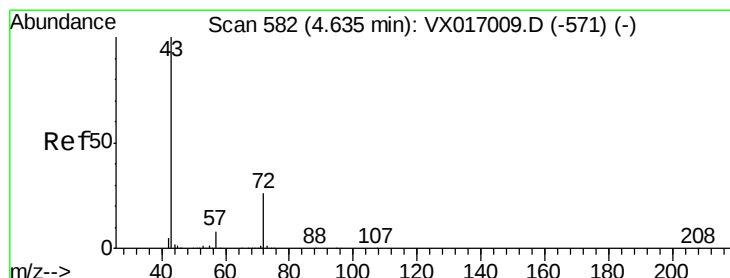
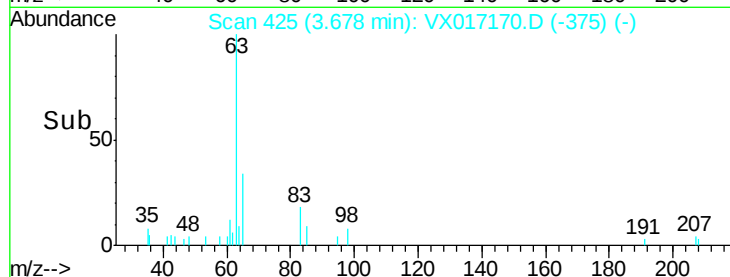
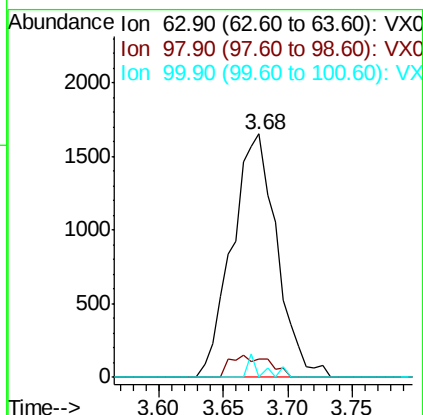
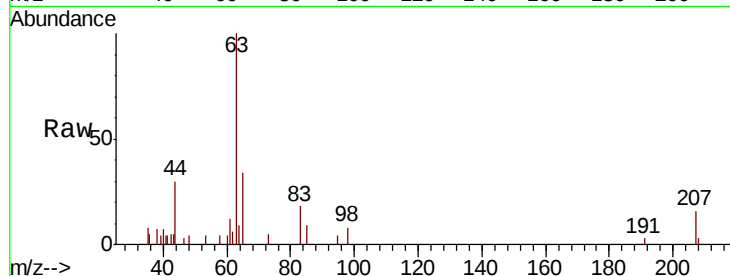
Tot Ion: 63 Resp: 3992

Ion Ratio Lower Upper

63 100

98 7.7 3.6 10.8

100 0.0 2.4 7.1#



#25

2-Butanone

Concen: 0.840 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017170.D

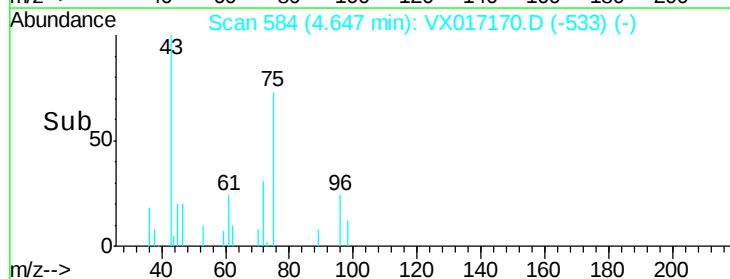
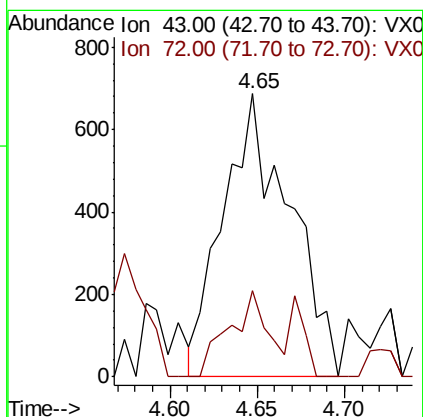
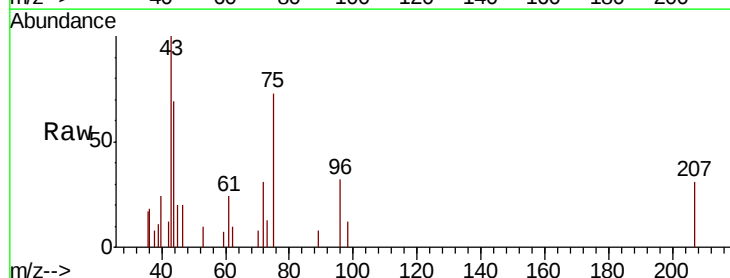
Acq: 06 Jul 2020 16:03

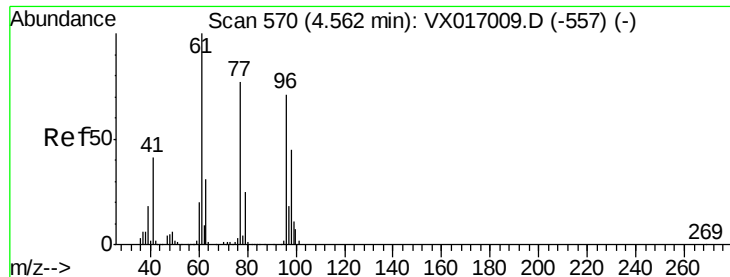
Tgt Ion: 43 Resp: 1818

Ion Ratio Lower Upper

43 100

72 30.6 20.8 31.2



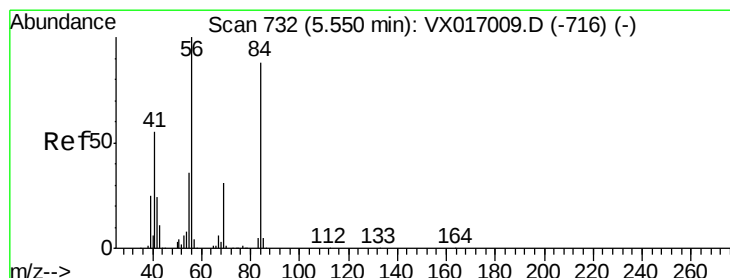
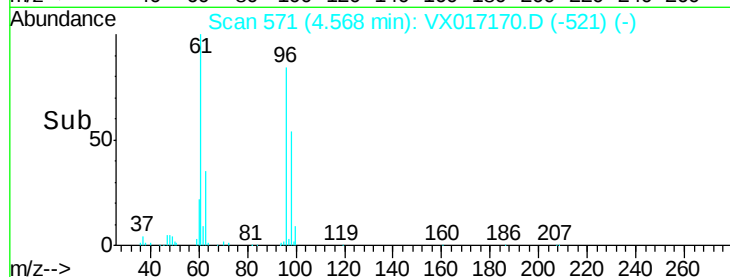
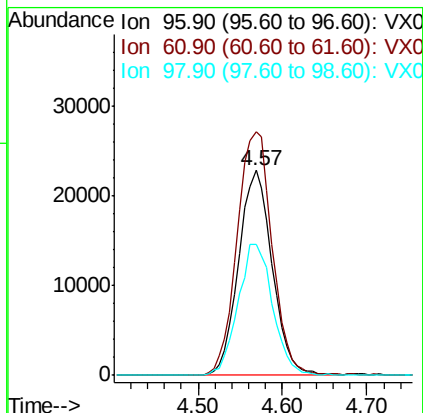
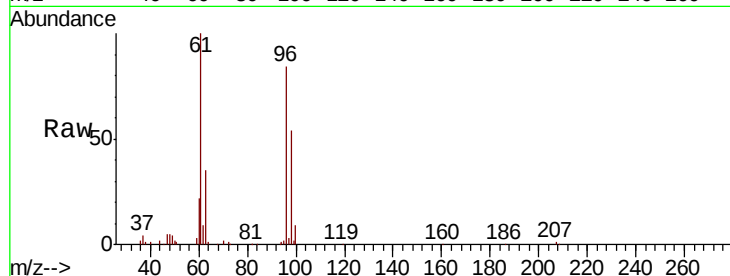


#27

cis-1,2-Dichloroethene
 Concen: 17.636 ug/l
 RT: 4.57 min Scan# 571
 Delta R.T. 0.01 min
 Lab File: VX017170.D
 Acq: 06 Jul 2020 16:03

Instrument :
 MSVOA_X
 ClientSampleId :
 65BR-20200629

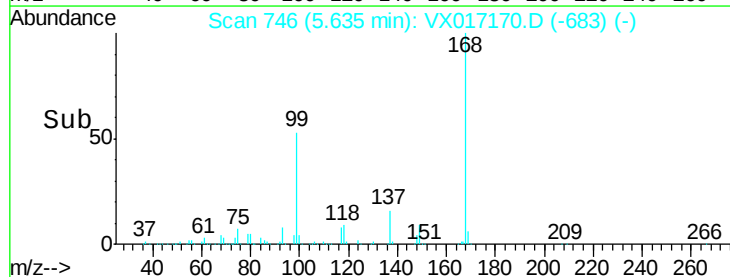
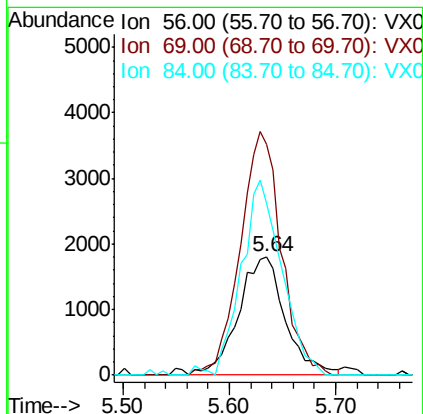
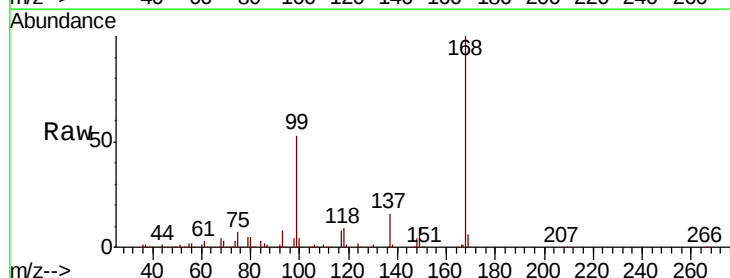
Tot Ion	96	Resp	61768
Ion	Ratio	Lower	Upper
96	100		
61	123.4	0.0	282.8
98	65.7	0.0	127.6

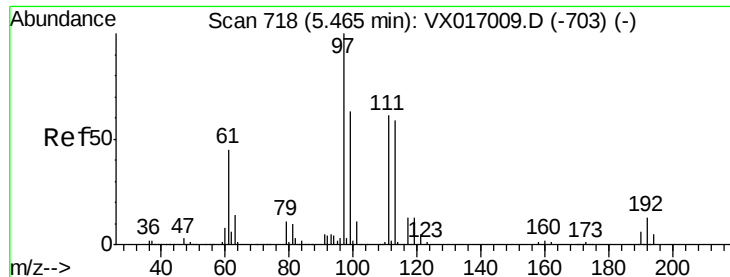


#31

Cyclohexane
 Concen: 1.189 ug/l
 RT: 5.64 min Scan# 746
 Delta R.T. 0.09 min
 Lab File: VX017170.D
 Acq: 06 Jul 2020 16:03

Tgt Ion	56	Resp	5572
Ion	Ratio	Lower	Upper
56	100		
69	194.6	25.0	37.4#
84	145.1	69.1	103.7#





#32

1,1,1-Trichloroethane

Concen: 0.307 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

65BR-20200629

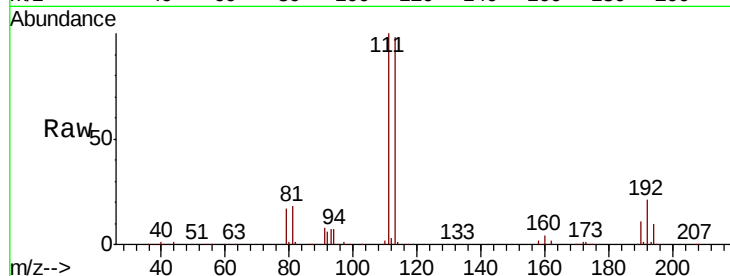
Tot Ion: 97 Resp: 1569

Ion Ratio Lower Upper

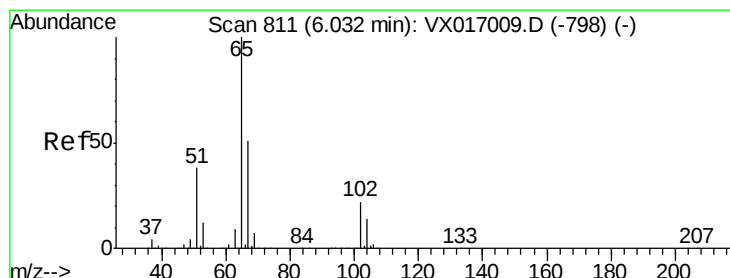
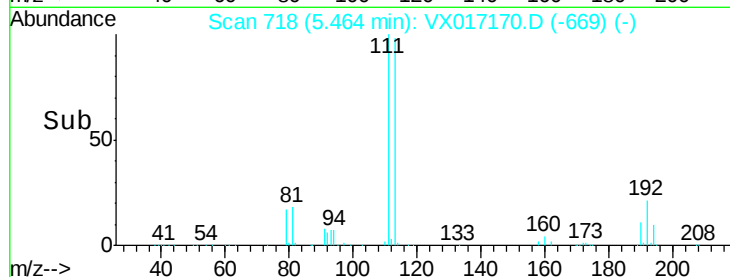
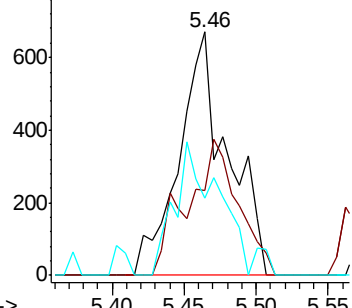
97 100

99 0.0 50.8 76.2#

61 52.3 33.7 50.5#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 49.770 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017170.D

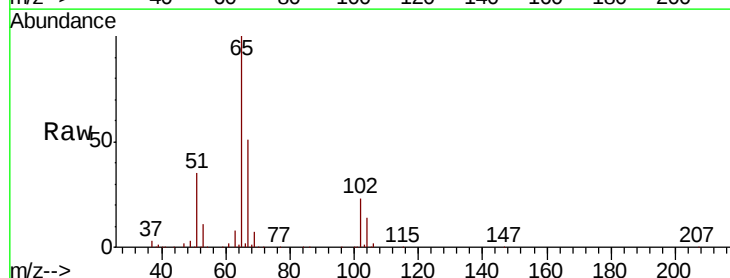
Acq: 06 Jul 2020 16:03

Tgt Ion: 65 Resp: 172740

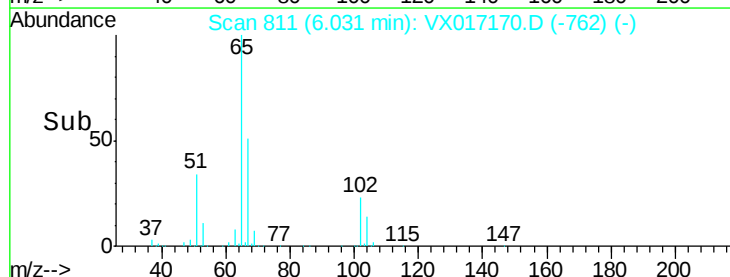
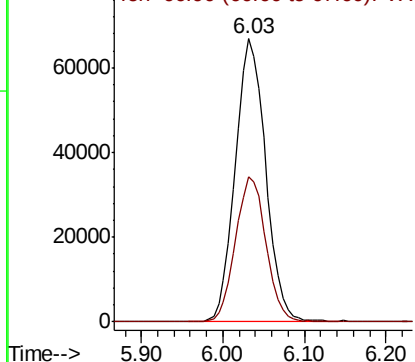
Ion Ratio Lower Upper

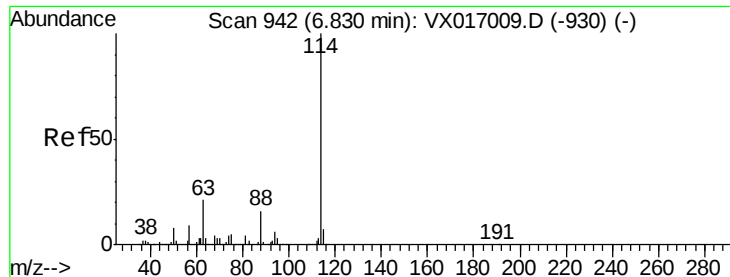
65 100

67 51.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

65BR-20200629

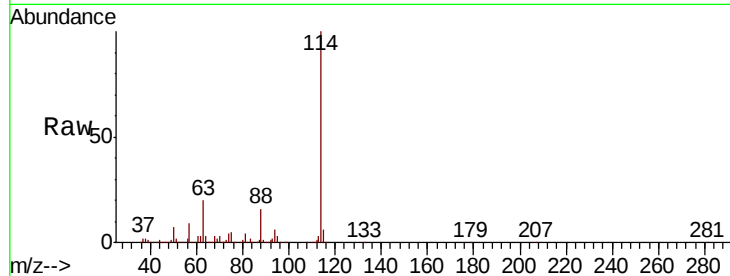
Tot Ion:114 Resp: 467229

Ion Ratio Lower Upper

114 100

63 19.9 0.0 41.4

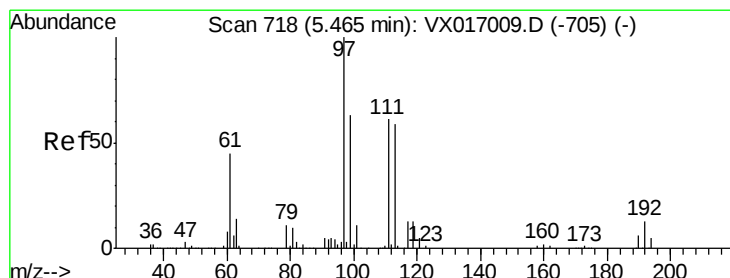
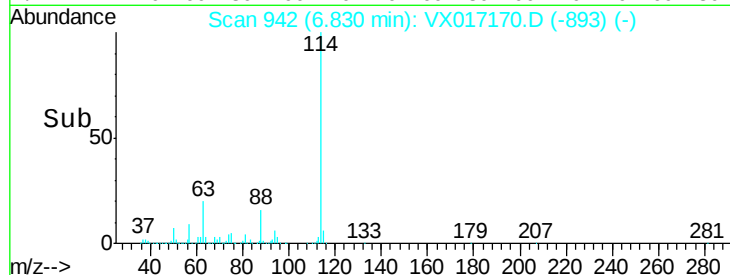
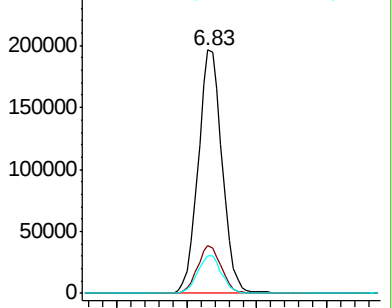
88 15.5 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 50.148 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

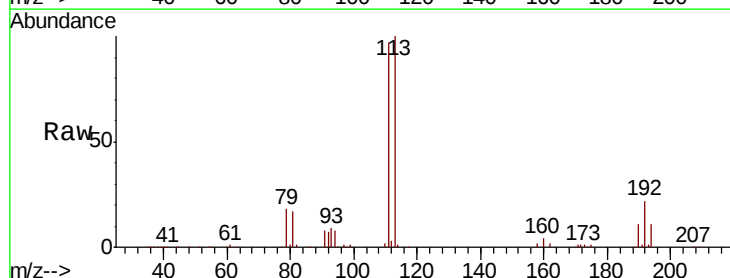
Tgt Ion:113 Resp: 148215

Ion Ratio Lower Upper

113 100

111 101.2 81.9 122.9

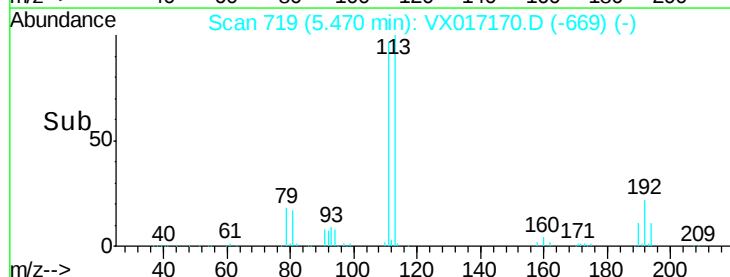
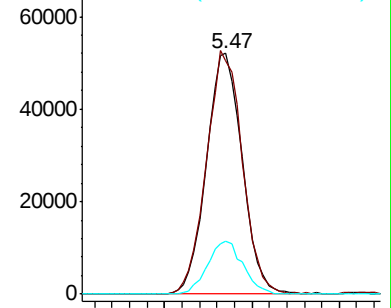
192 21.9 16.7 25.1

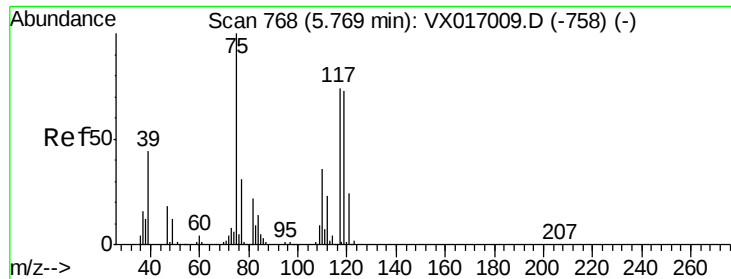


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.440 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

65BR-20200629

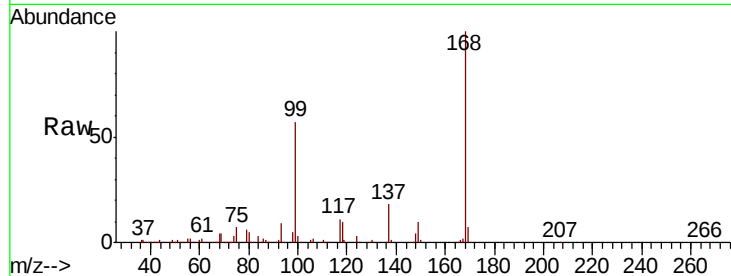
Tot Ion: 75 Resp: 19606

Ion Ratio Lower Upper

75 100

110 12.0 18.1 54.1#

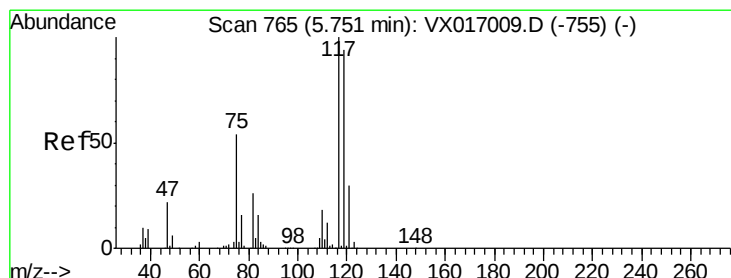
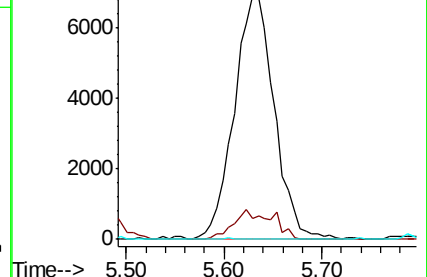
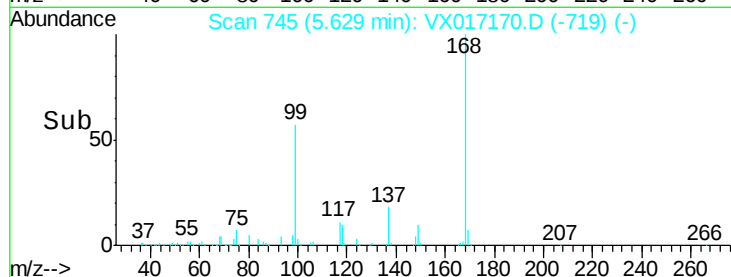
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX017170.D (-719) (-)

Ion 109.90 (109.60 to 110.60): VX017170.D (-719) (-)

Ion 76.90 (76.60 to 77.60): VX017170.D (-719) (-)



#38

Carbon Tetrachloride

Concen: 5.665 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

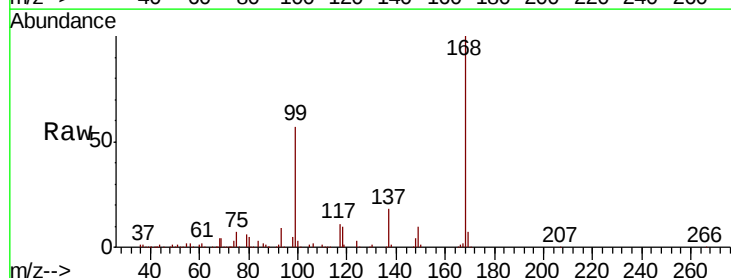
Tgt Ion: 117 Resp: 27553

Ion Ratio Lower Upper

117 100

119 6.3 75.4 113.0#

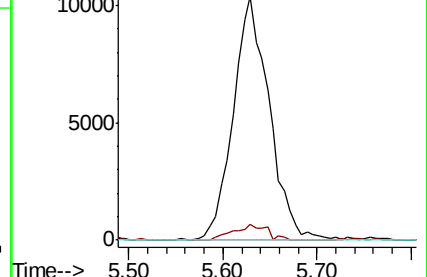
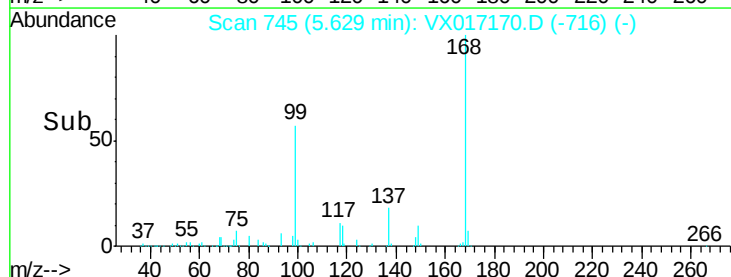
121 0.0 23.8 35.6#

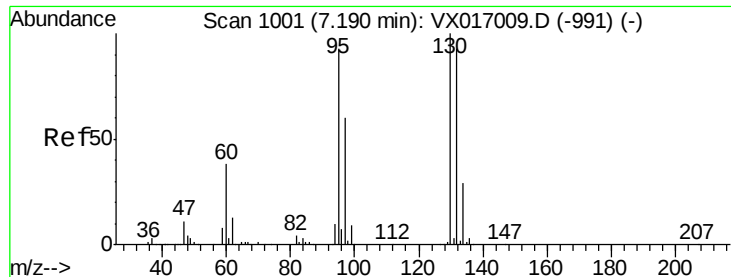


Abundance Ion 116.80 (116.50 to 117.50): VX017170.D (-716) (-)

Ion 118.80 (118.50 to 119.50): VX017170.D (-716) (-)

Ion 120.80 (120.50 to 121.50): VX017170.D (-716) (-)





#44

Trichloroethene

Concen: 1.987 ug/l

RT: 7.20 min Scan# 1002

Delta R.T. 0.01 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

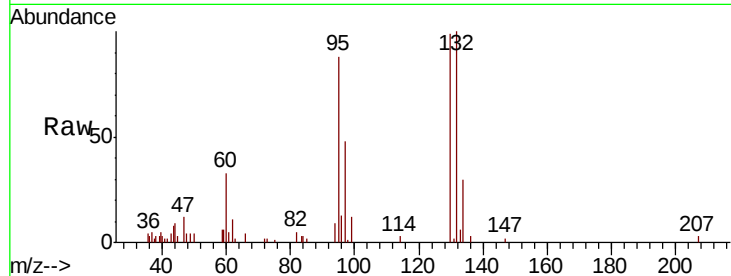
65BR-20200629

Tot Ion:130 Resp: 8177

Ion Ratio Lower Upper

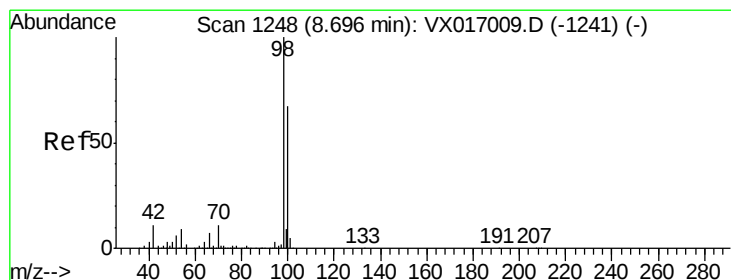
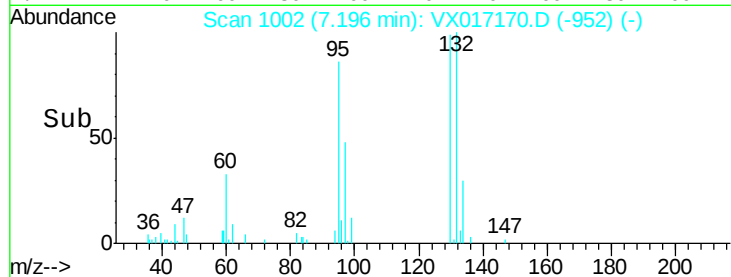
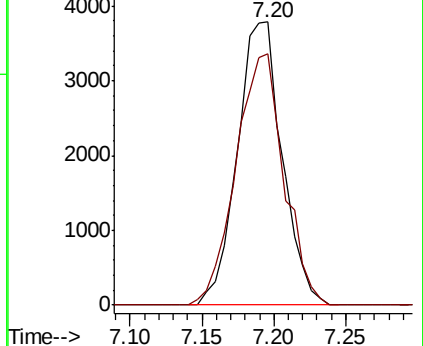
130 100

95 88.7 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.923 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017170.D

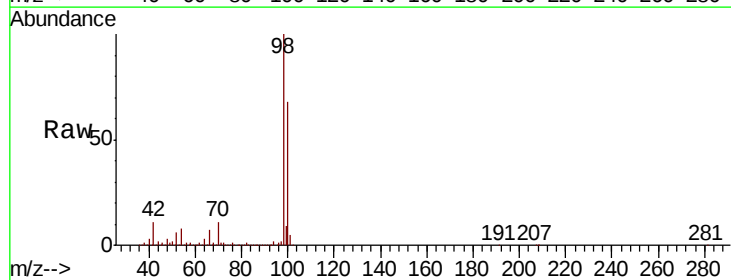
Acq: 06 Jul 2020 16:03

Tgt Ion: 98 Resp: 556537

Ion Ratio Lower Upper

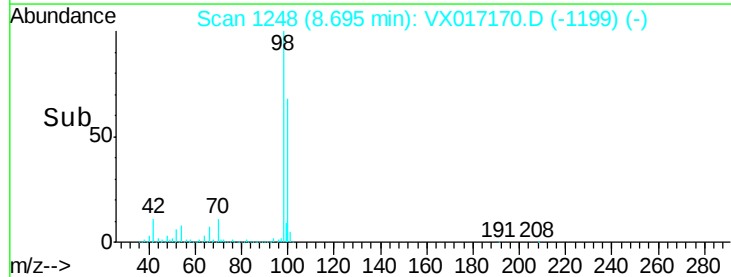
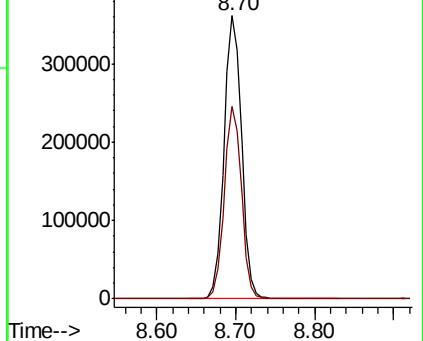
98 100

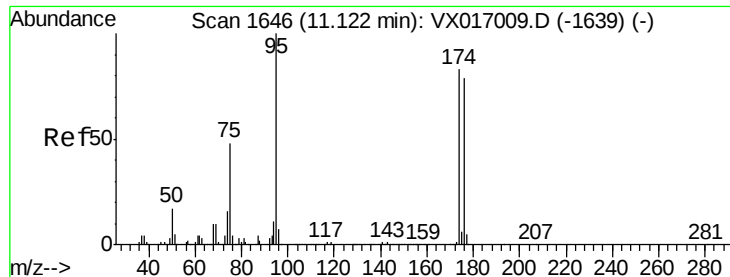
100 66.8 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

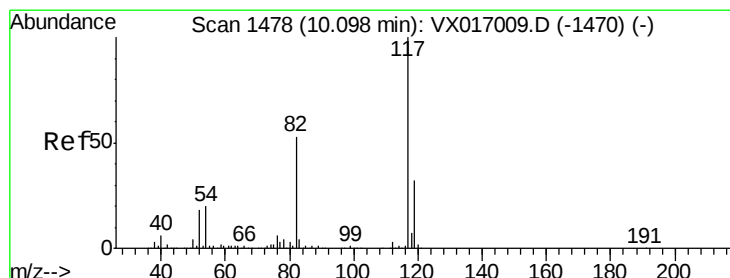
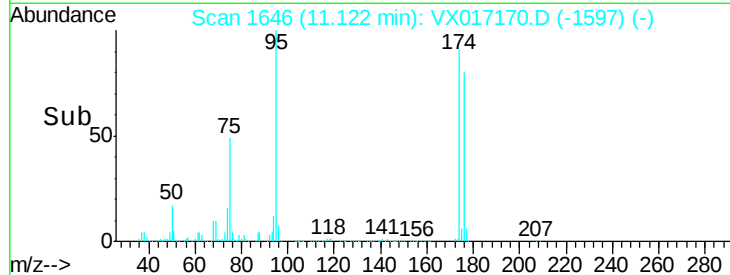
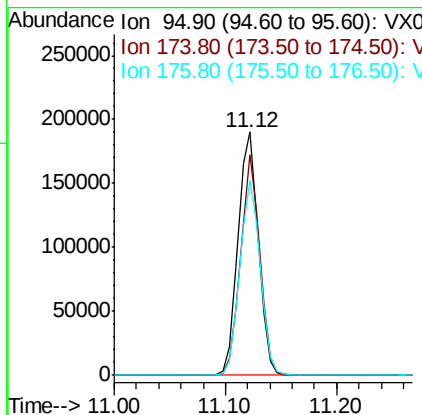
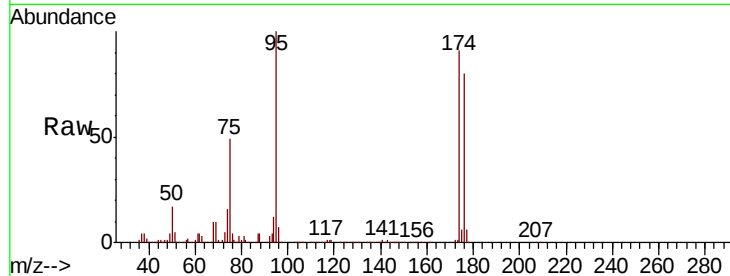




#62
4-Bromofluorobenzene
Concen: 56.138 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

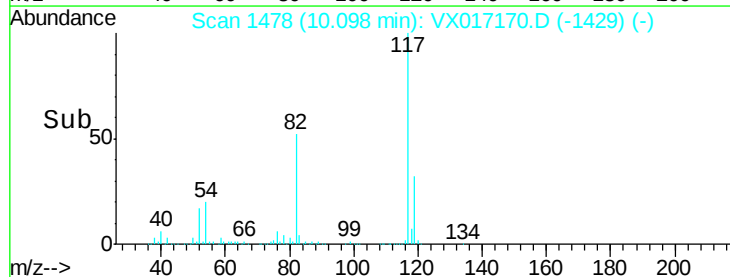
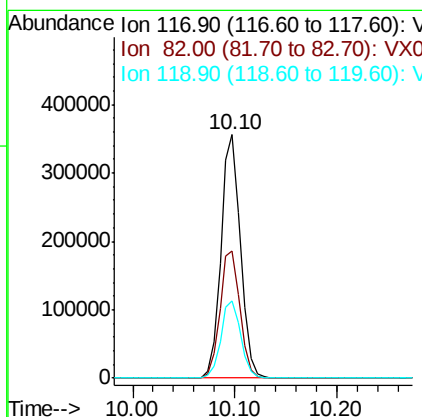
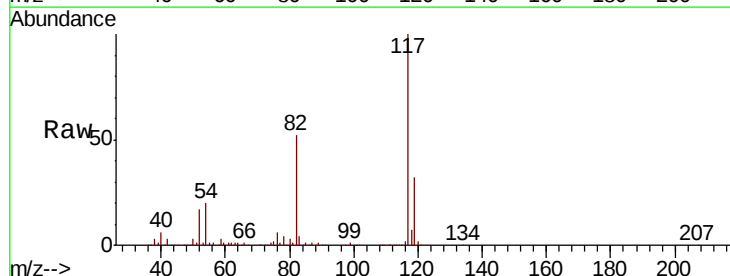
Instrument :
MSVOA_X
ClientSampleId :
65BR-20200629

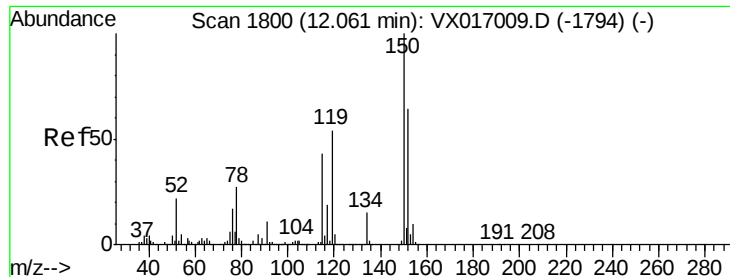
Tot Ion	95	Resp	239836
Ion Ratio	Lower	Upper	
95	100		
174	86.3	0.0	164.0
176	80.3	0.0	157.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

Tgt Ion	117	Resp	473798
Ion Ratio	Lower	Upper	
117	100		
82	52.4	42.6	63.8
119	31.6	25.4	38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017170.D

Acq: 06 Jul 2020 16:03

Instrument :

MSVOA_X

ClientSampleId :

65BR-20200629

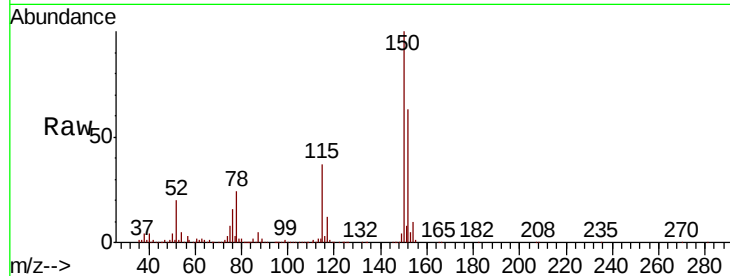
Tot Ion:152 Resp: 271364

Ion Ratio Lower Upper

152 100

115 57.6 40.9 122.7

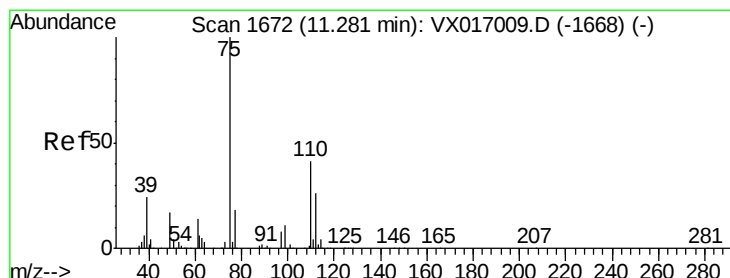
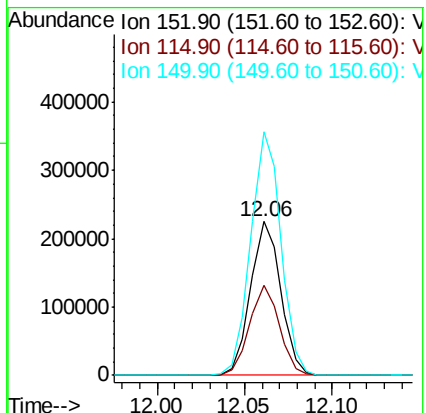
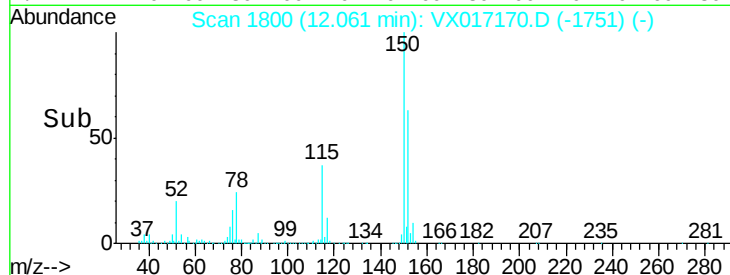
150 158.2 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.425 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017170.D

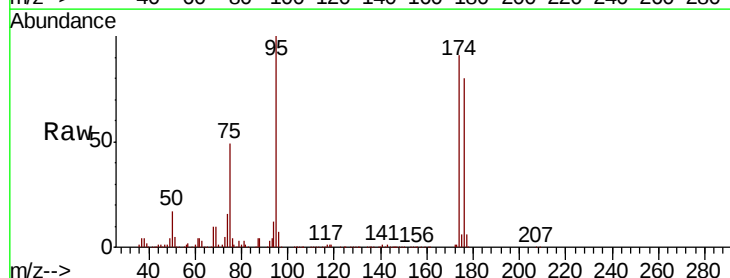
Acq: 06 Jul 2020 16:03

Tgt Ion: 75 Resp: 119665

Ion Ratio Lower Upper

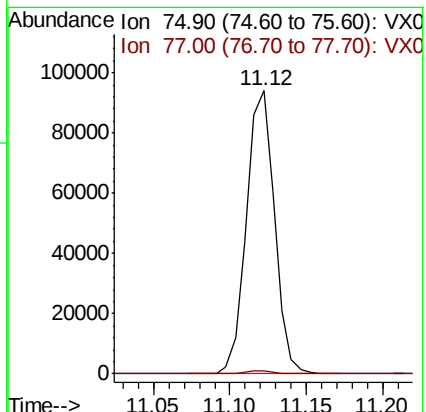
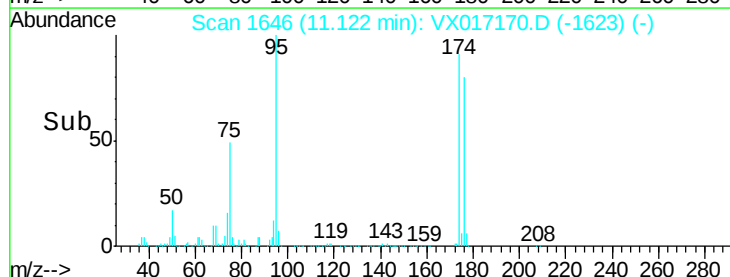
75 100

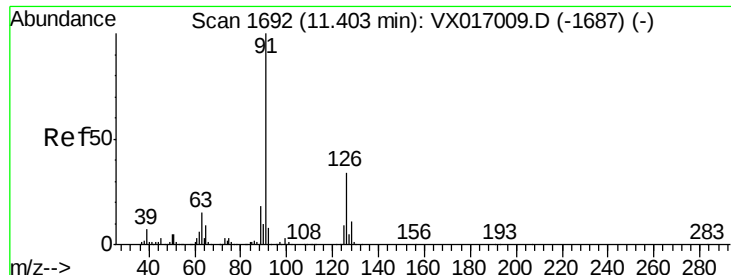
77 1.1 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

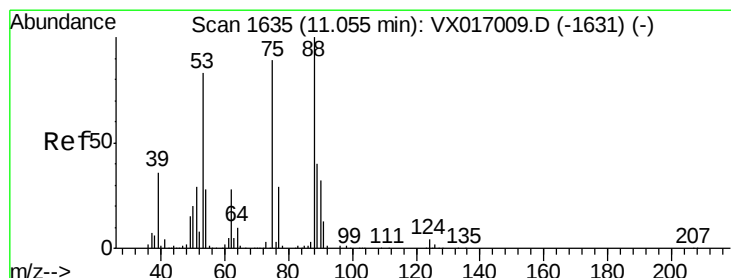
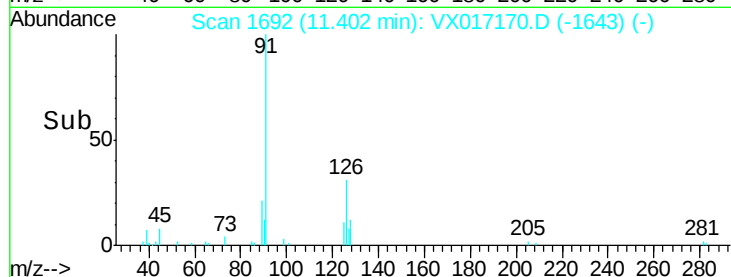
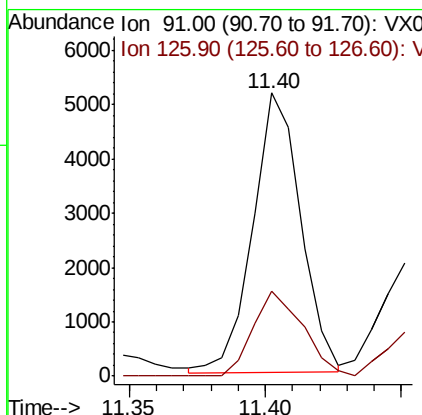
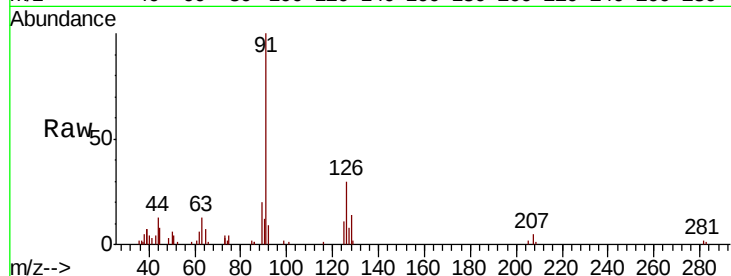




#79
2-Chlorotoluene
Concen: 0.519 ug/l
RT: 11.40 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

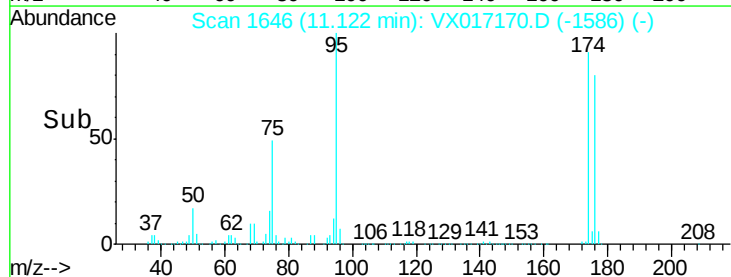
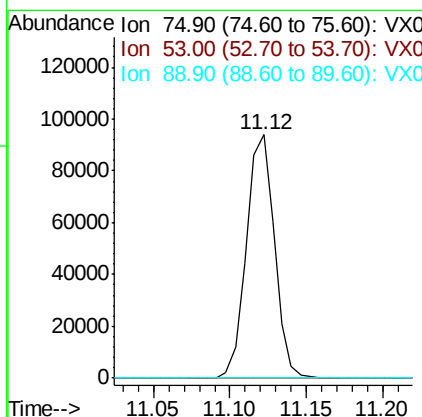
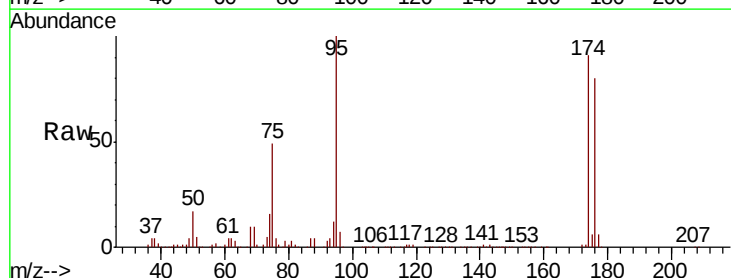
Instrument :
MSVOA_X
ClientSampleId :
65BR-20200629

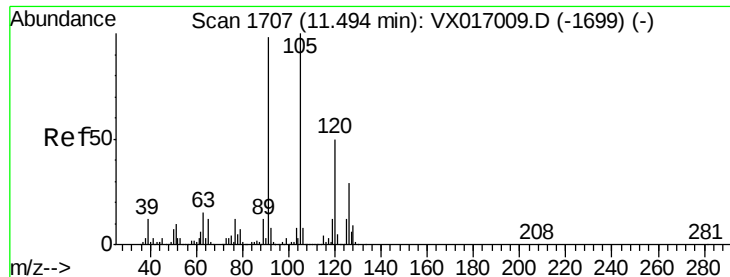
Tot Ion: 91 Resp: 6309
Ion Ratio Lower Upper
91 100
126 31.2 17.4 52.3



#81
trans-1,4-Dichloro-2-butene
Concen: 58.073 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.07 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

Tgt Ion: 75 Resp: 119665
Ion Ratio Lower Upper
75 100
53 0.3 72.4 108.6#
89 0.0 37.0 55.4#

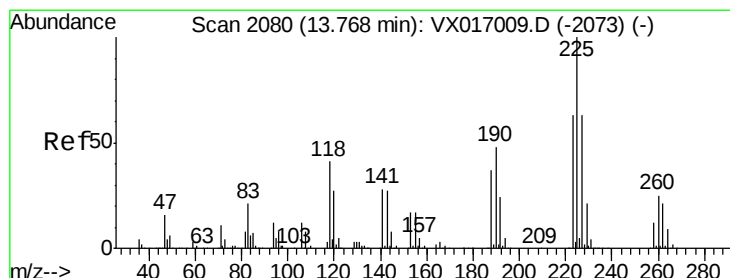
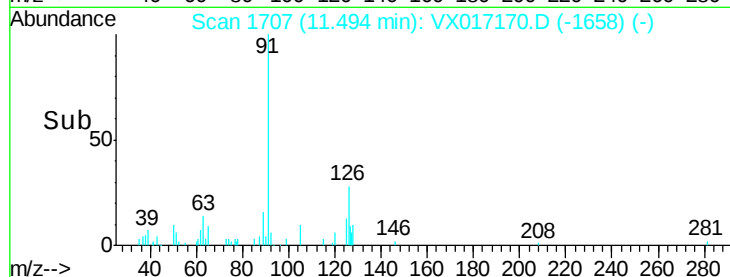
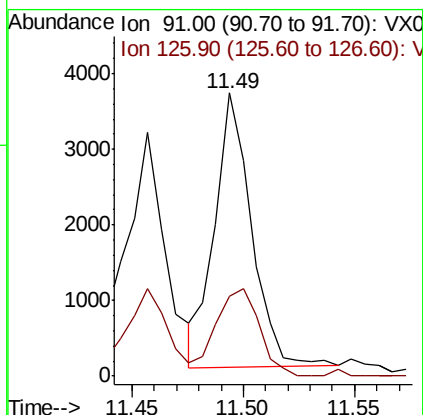
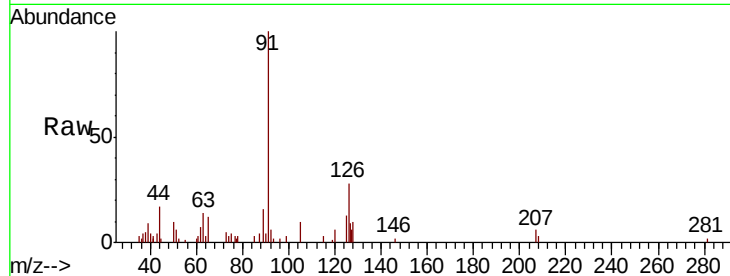




#82
4-Chlorotoluene
Concen: 0.285 ug/l
RT: 11.49 min Scan# 1707
Delta R.T. -0.00 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

Instrument :
MSVOA_X
ClientSampleId :
65BR-20200629

Tot Ion: 91 Resp: 4144
Ion Ratio Lower Upper
91 100
126 37.9 15.2 45.5



#94
Hexachlorobutadiene
Concen: 0.951 ug/l
RT: 13.77 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX017170.D
Acq: 06 Jul 2020 16:03

Tgt Ion: 225 Resp: 234
Ion Ratio Lower Upper
225 100
223 72.2 32.5 97.5
227 66.2 33.1 99.2

