

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120920\
 Data File : VX019789.D
 Acq On : 09 Dec 2020 19:17
 Operator : JC/MD
 Sample : L4971-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-A-BOTTOM

Quant Time: Dec 10 05:42:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	331733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	549026	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	504535	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	219708	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	207168	47.52	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.04%	
35) Dibromofluoromethane		5.46	113	168329	47.44	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.88%	
50) Toluene-d8		8.70	98	670997	49.53	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	99.06%	
62) 4-Bromofluorobenzene		11.12	95	233327	45.25	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.50%	

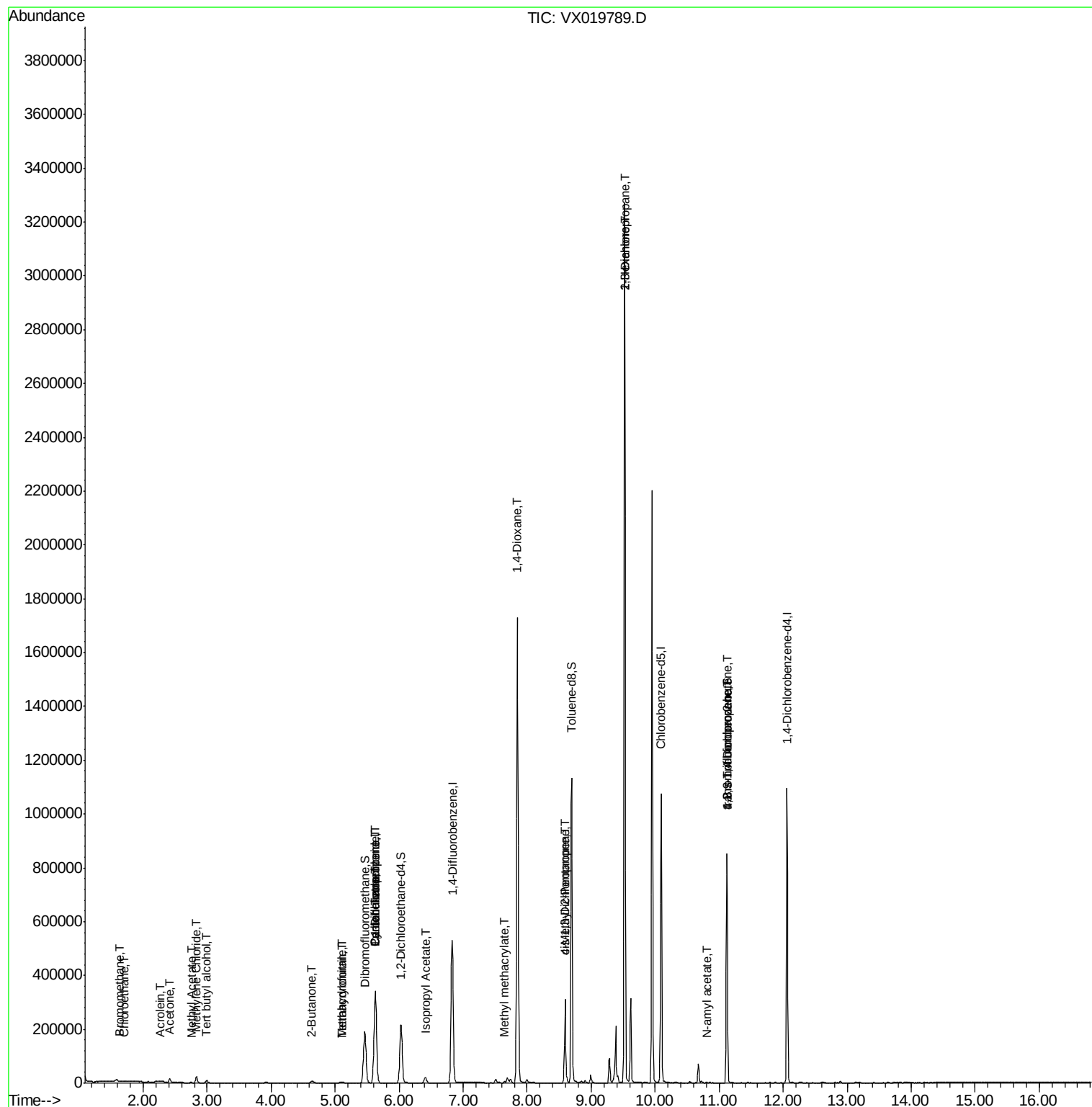
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	665	0.532	ug/l #	76
6) Chloroethane	1.70	64	578	0.255	ug/l	89
11) Tert butyl alcohol	3.00	59	5886	3.995	ug/l #	82
13) Acrolein	2.27	56	168	0.349	ug/l #	38
16) Acetone	2.42	43	13771	8.403	ug/l	100
18) Methyl Acetate	2.75	43	1814	0.452	ug/l	90
20) Methylene Chloride	2.84	84	11207	1.619	ug/l	98
25) 2-Butanone	4.63	43	6052	2.403	ug/l	98
29) Tetrahydrofuran	5.09	42	2891	1.782	ug/l	92
31) Cyclohexane	5.63	56	6535	1.205	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24892	5.017	ug/l #	48
38) Carbon Tetrachloride	5.62	117	31876	6.561	ug/l #	17
41) Methacrylonitrile	5.10	41	1821	0.662	ug/l #	44
43) Isopropyl Acetate	6.41	43	26296	3.229	ug/l	99
48) Methyl methacrylate	7.65	41	7471	1.865	ug/l #	10
49) 1,4-Dioxane	7.85	88	287	2.958	ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	96613	19.431	ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	51829	8.470	ug/l #	59
57) 1,3-Dichloropropane	9.52	76	29886	4.582	ug/l #	43
59) 2-Hexanone	9.52	43	361510	93.801	ug/l #	46
74) N-amyl acetate	10.80	43	1329	0.221	ug/l #	47
76) 1,2,3-Trichloropropane	11.12	75	113322	22.997	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	113322	66.480	ug/l #	12

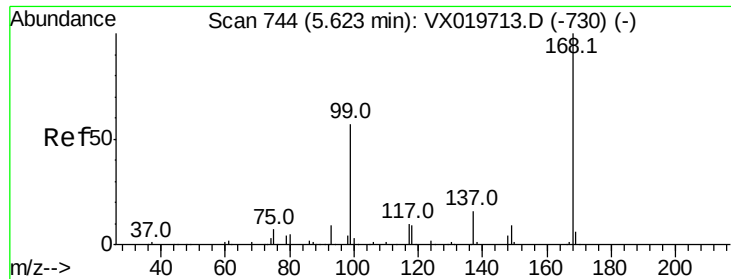
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 04 15:32:53 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

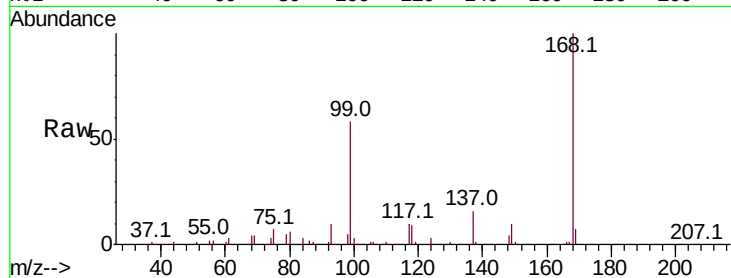
5S2-A-BOTTOM

Tot Ion:168 Resp: 331733

Ion Ratio Lower Upper

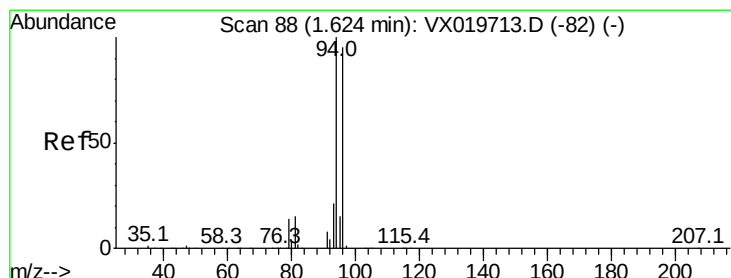
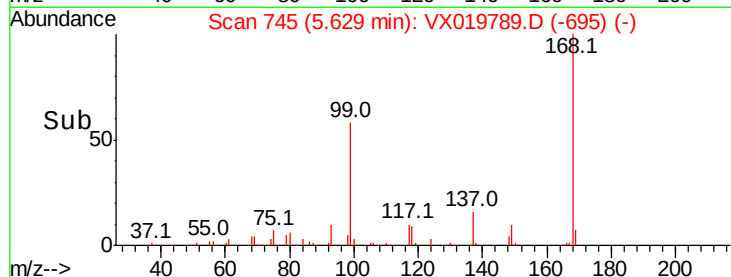
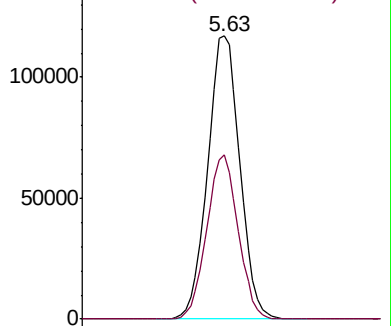
168 100

99 58.3 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.532 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019789.D

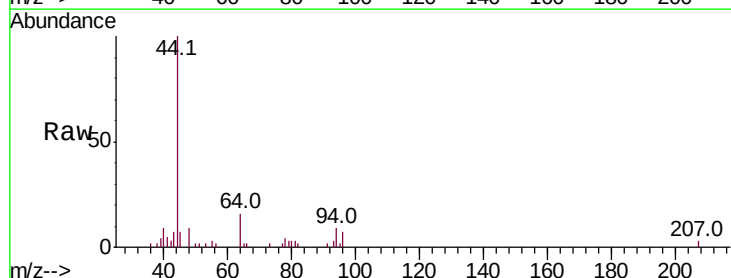
Acq: 09 Dec 2020 19:17

Tgt Ion: 94 Resp: 665

Ion Ratio Lower Upper

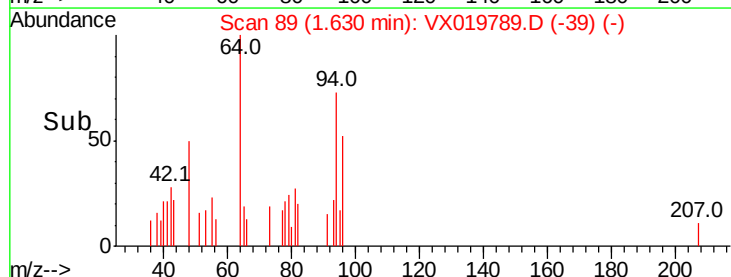
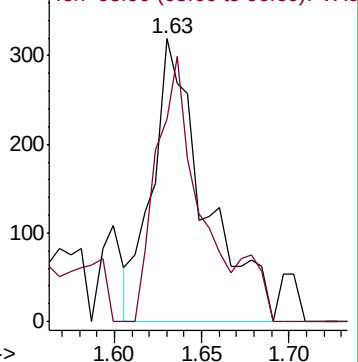
94 100

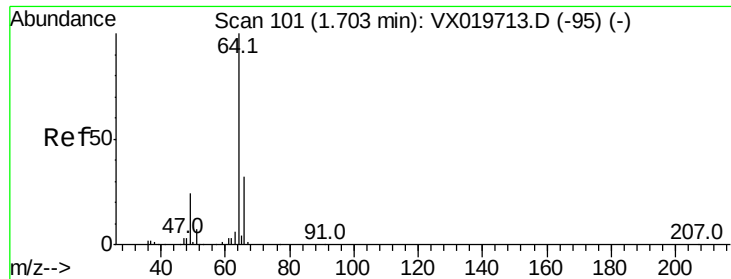
96 71.8 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.255 ug/l

RT: 1.70 min Scan# 100

Delta R.T. -0.01 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

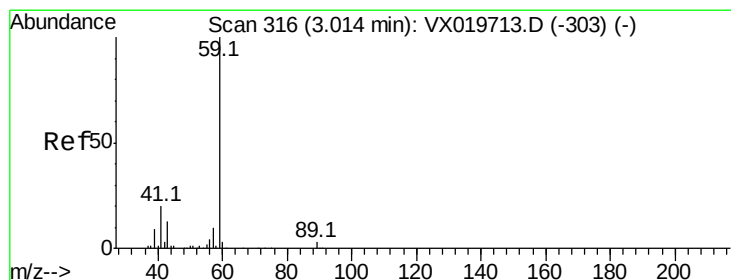
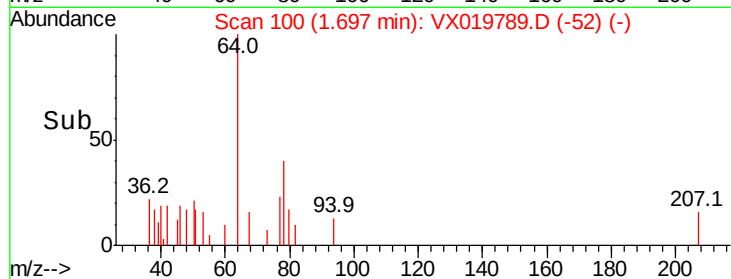
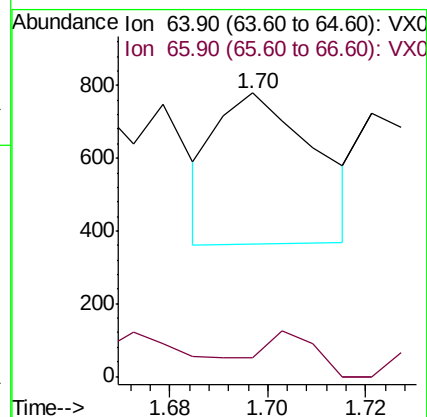
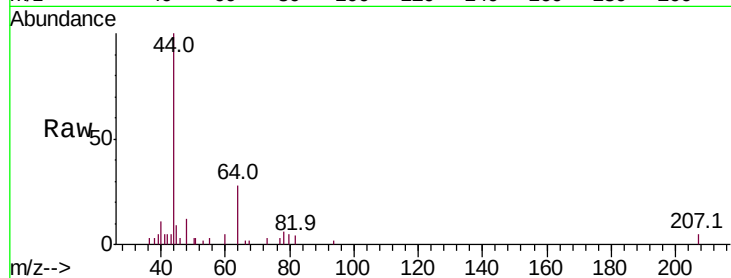
5S2-A-BOTTOM

Tot Ion: 64 Resp: 578

Ion Ratio Lower Upper

64 100

66 25.6 25.4 38.0



#11

Tert butyl alcohol

Concen: 3.995 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019789.D

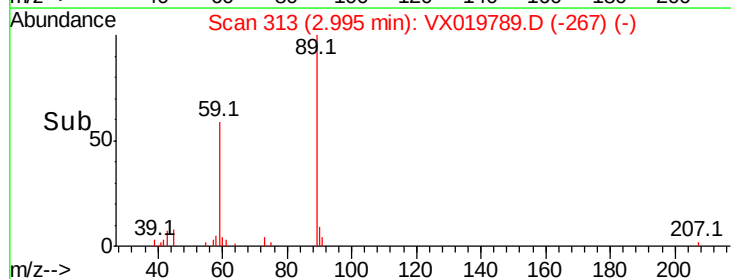
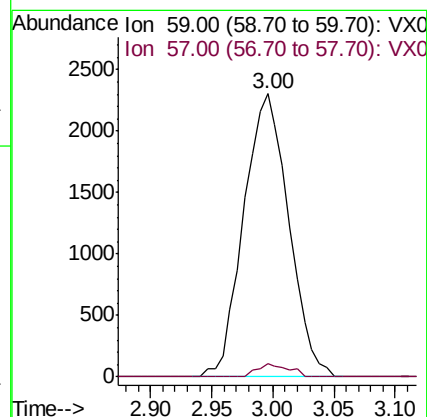
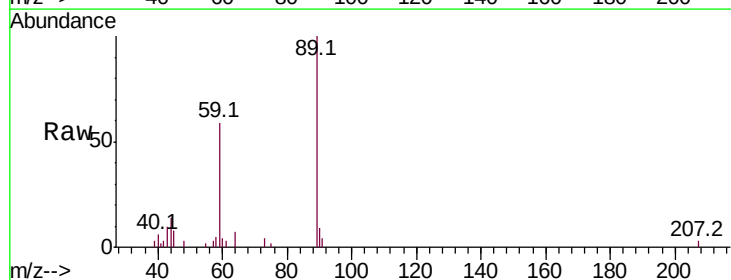
Acq: 09 Dec 2020 19:17

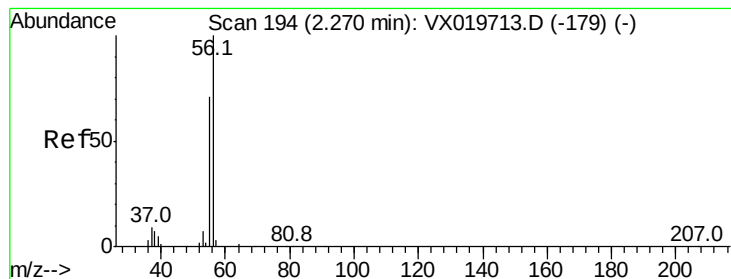
Tgt Ion: 59 Resp: 5886

Ion Ratio Lower Upper

59 100

57 3.3 7.8 11.8#





#13

Acrolein

Concen: 0.349 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

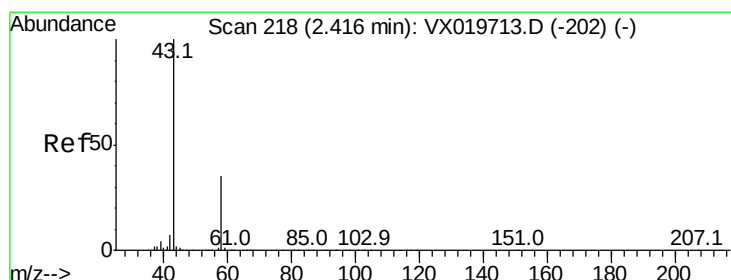
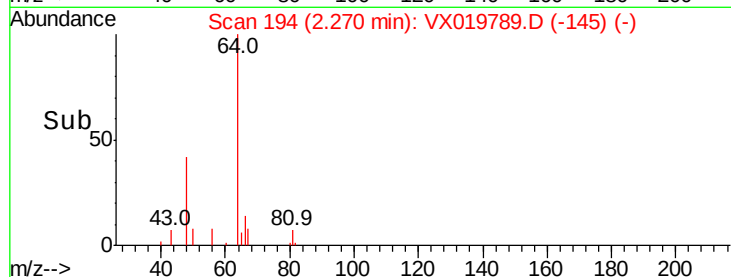
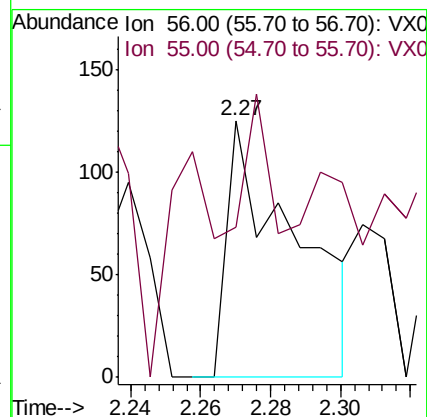
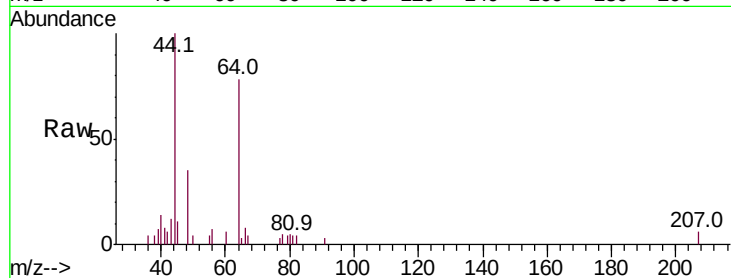
5S2-A-BOTTOM

Tot Ion: 56 Resp: 168

Ion Ratio Lower Upper

56 100

55 19.0 56.4 84.6#



#16

Acetone

Concen: 8.403 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019789.D

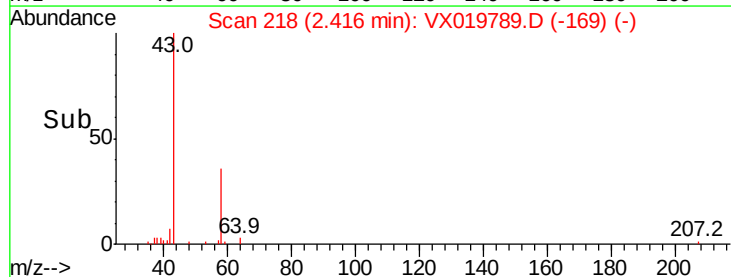
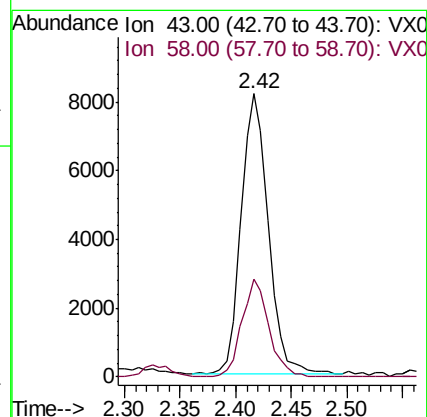
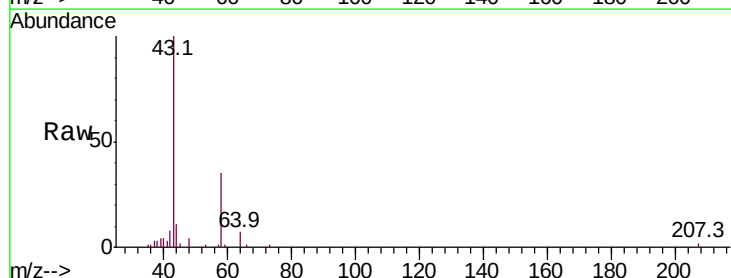
Acq: 09 Dec 2020 19:17

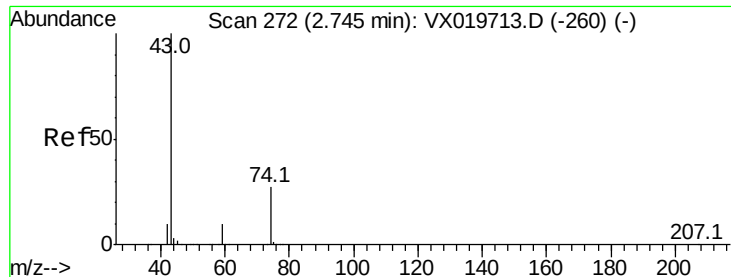
Tgt Ion: 43 Resp: 13771

Ion Ratio Lower Upper

43 100

58 35.1 27.8 41.8

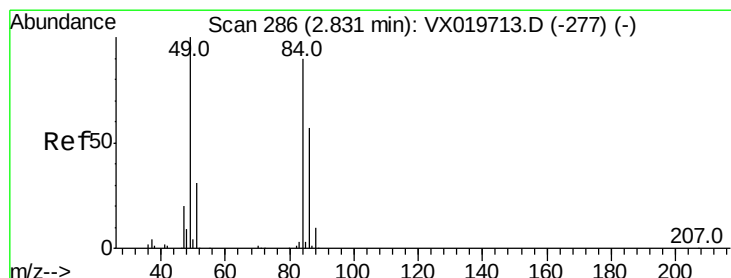
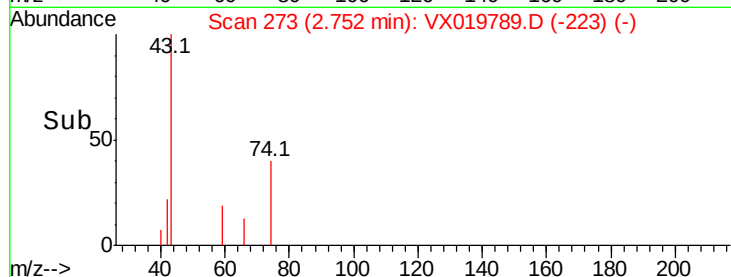
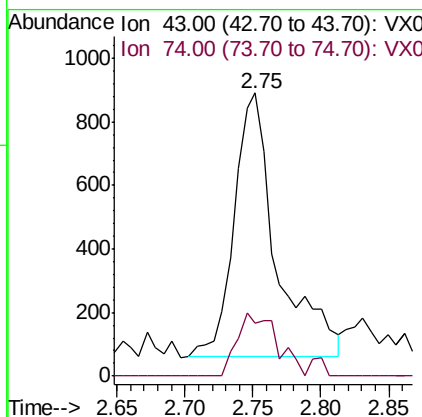
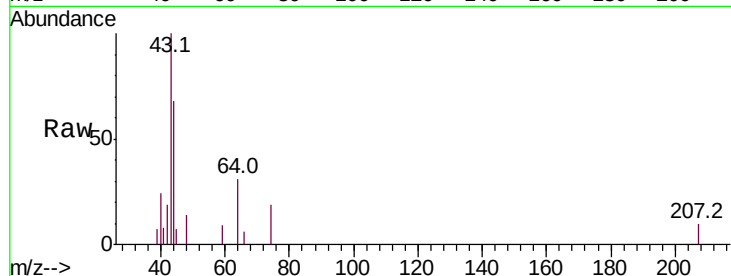




#18
Methyl Acetate
Concen: 0.452 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.01 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

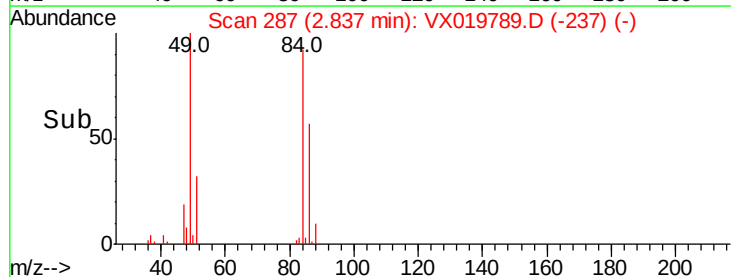
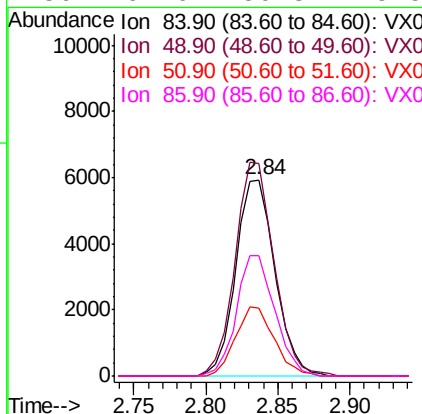
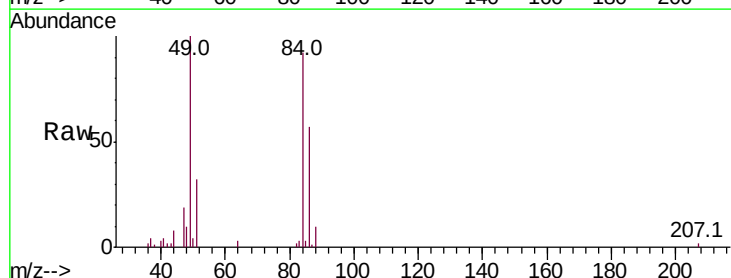
Instrument :
MSVOA_X
ClientSampleId :
5S2-A-BOTTOM

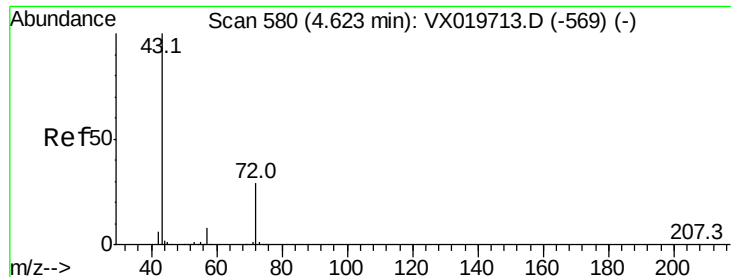
Tot Ion: 43 Resp: 1814
Ion Ratio Lower Upper
43 100
74 22.3 21.9 32.9



#20
Methylene Chloride
Concen: 1.619 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

Tgt Ion: 84 Resp: 11207
Ion Ratio Lower Upper
84 100
49 108.3 88.6 132.8
51 34.5 27.0 40.6
86 61.6 50.3 75.5





#25

2-Butanone

Concen: 2.403 ug/l

RT: 4.63 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

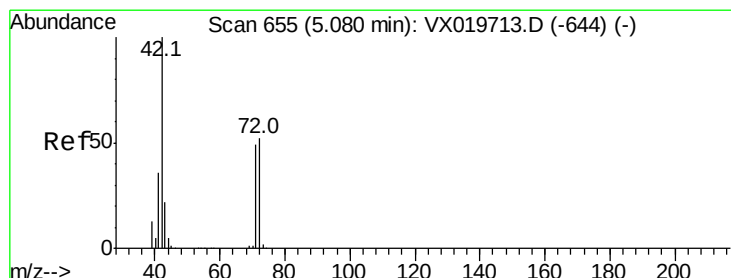
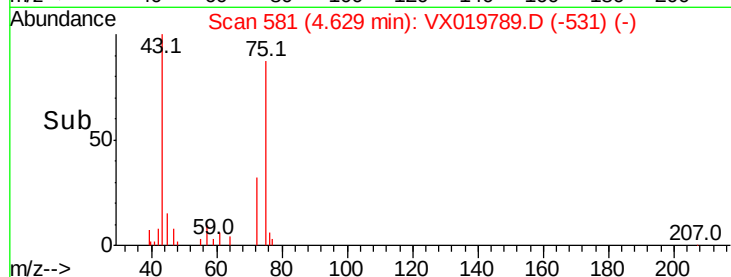
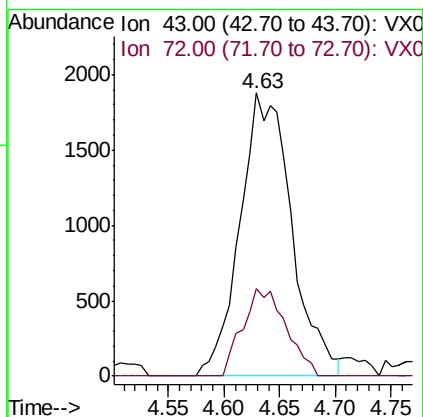
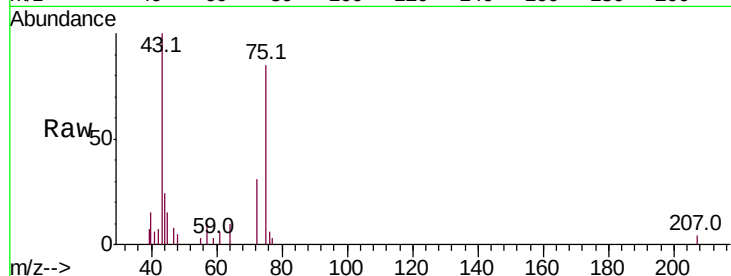
5S2-A-BOTTOM

Tot Ion: 43 Resp: 6052

Ion Ratio Lower Upper

43 100

72 30.9 23.7 35.5



#29

Tetrahydrofuran

Concen: 1.782 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

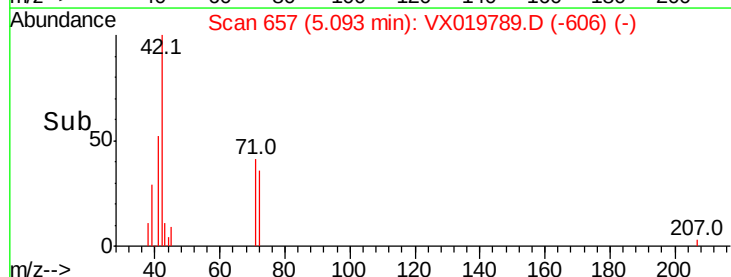
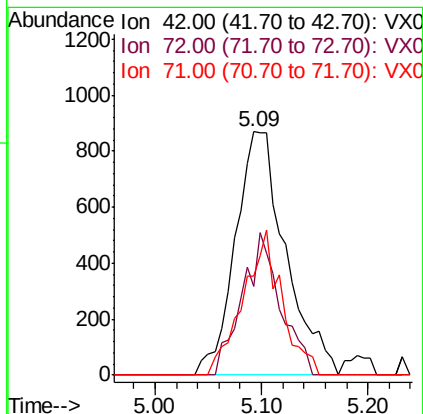
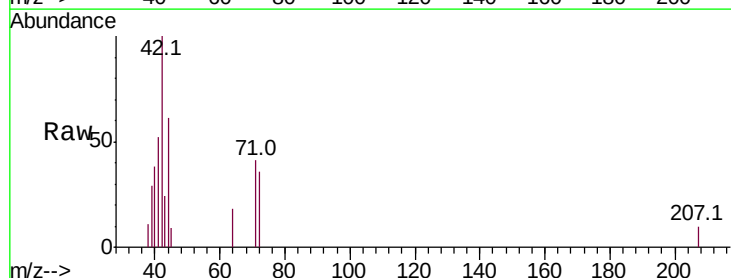
Tgt Ion: 42 Resp: 2891

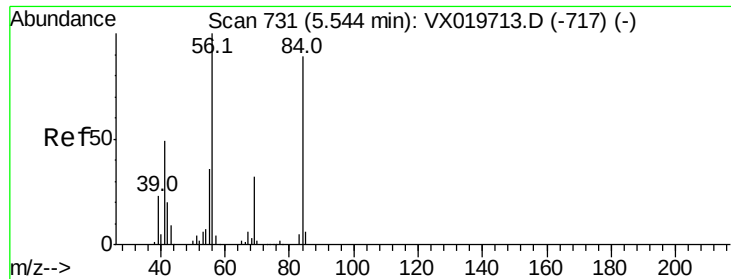
Ion Ratio Lower Upper

42 100

72 44.4 41.7 62.5

71 45.4 38.4 57.6

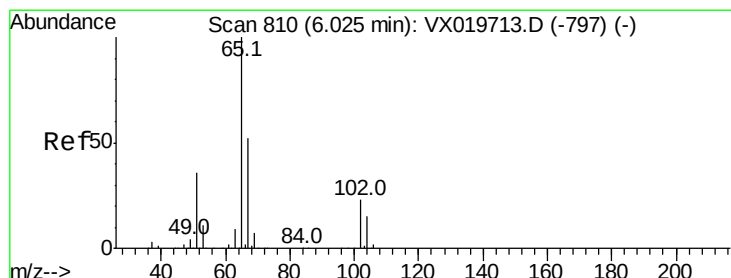
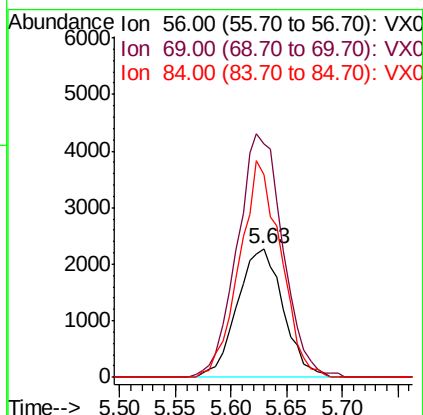
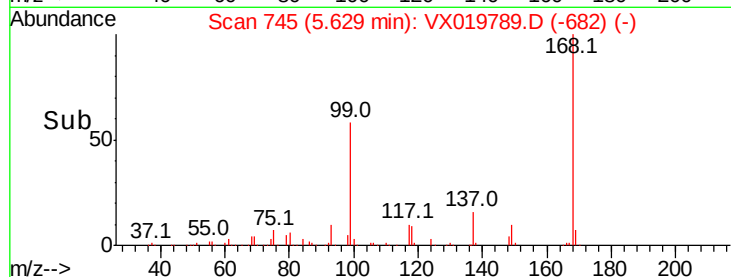
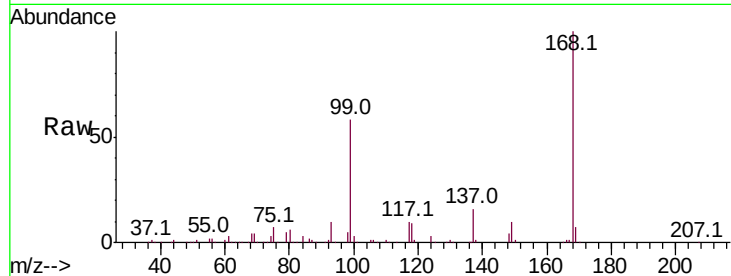




#31
Cyclohexane
Concen: 1.205 ug/l
RT: 5.63 min Scan# 745
Delta R.T. 0.09 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

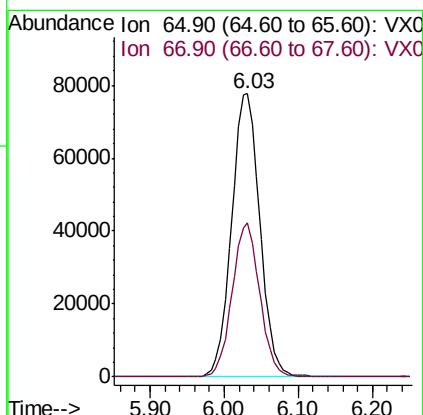
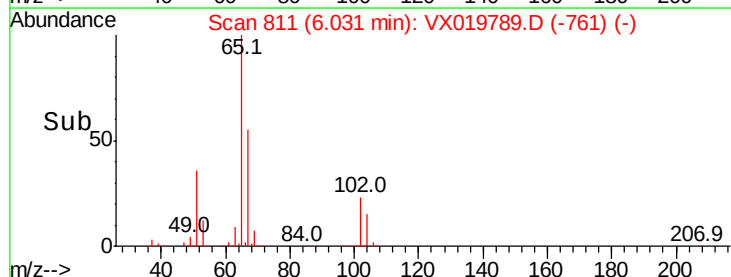
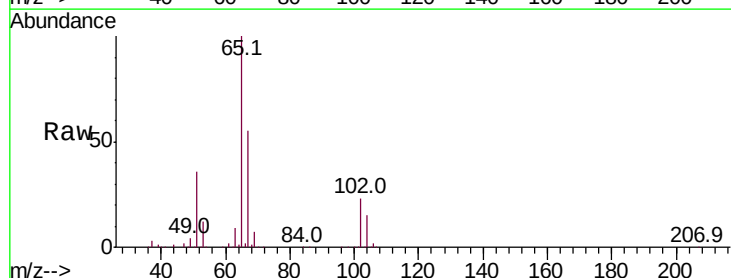
Instrument :
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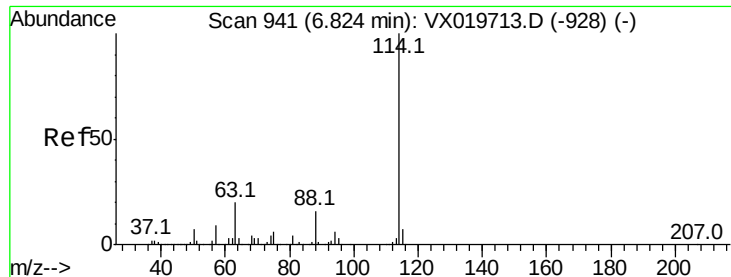
Tot Ion: 56 Resp: 6535
Ion Ratio Lower Upper
56 100
69 181.7 25.3 37.9#
84 157.6 71.4 107.0#



#33
1,2-Dichloroethane-d4
Concen: 47.516 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.01 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

Tgt Ion: 65 Resp: 207168
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-BOTTOM

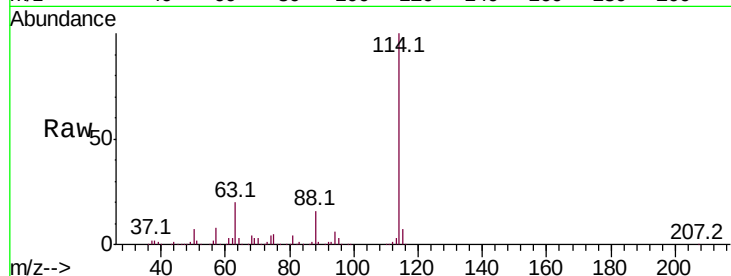
Tot Ion:114 Resp: 549026

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

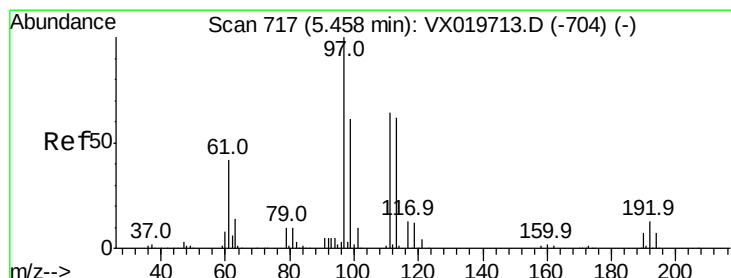
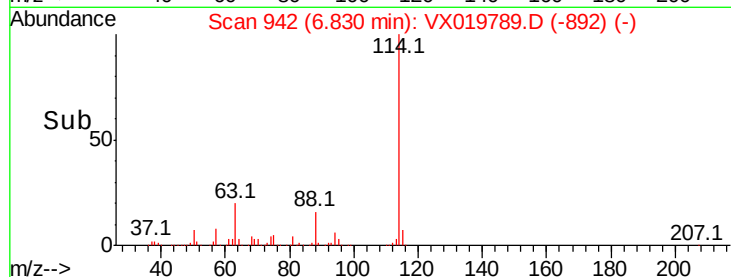
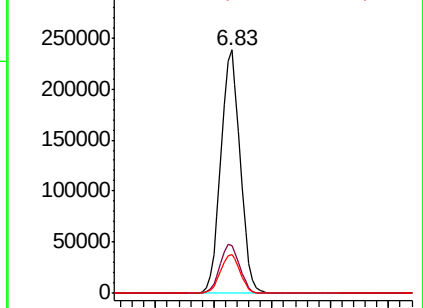
88 16.1 0.0 32.8



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: 47.440 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

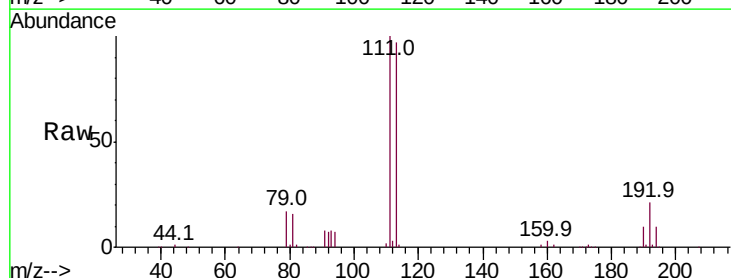
Tgt Ion:113 Resp: 168329

Ion Ratio Lower Upper

113 100

111 102.5 81.9 122.9

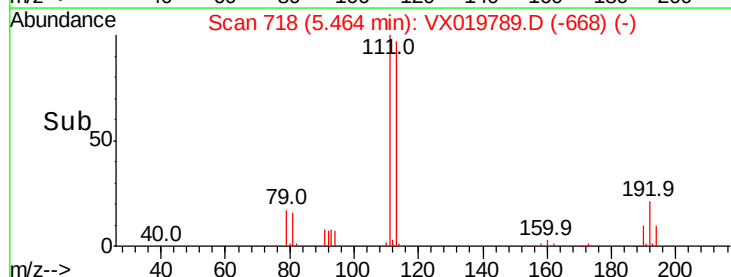
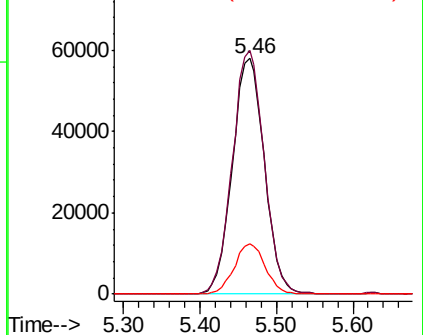
192 20.6 16.7 25.1

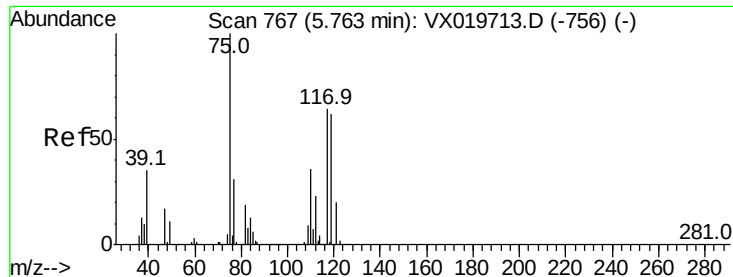


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.017 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-BOTTOM

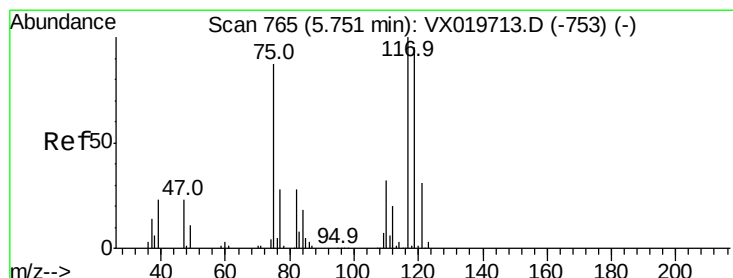
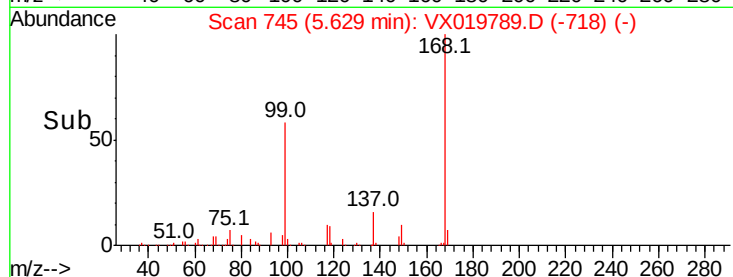
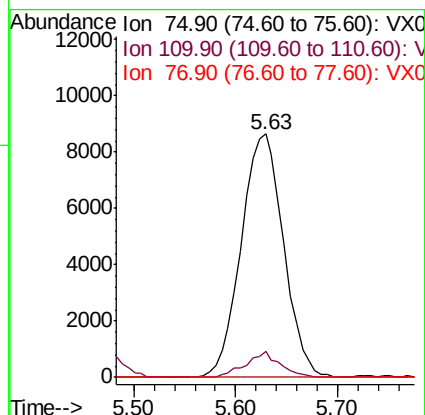
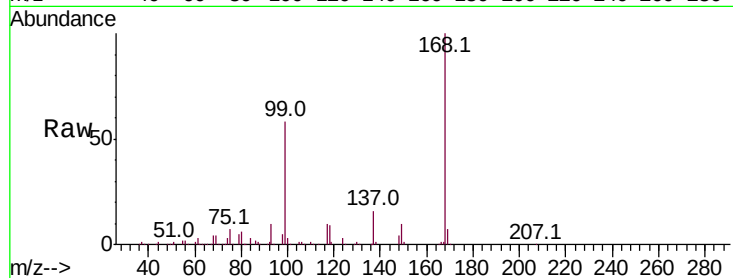
Tot Ion: 75 Resp: 24892

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.4#

77 0.0 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.561 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

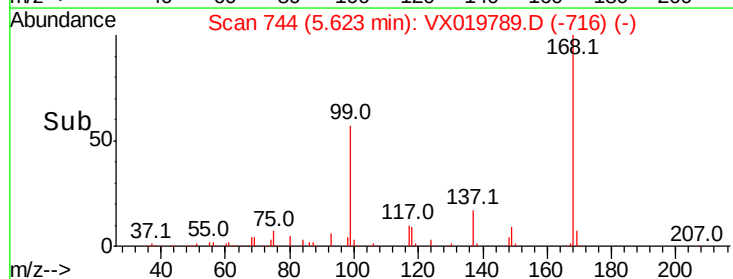
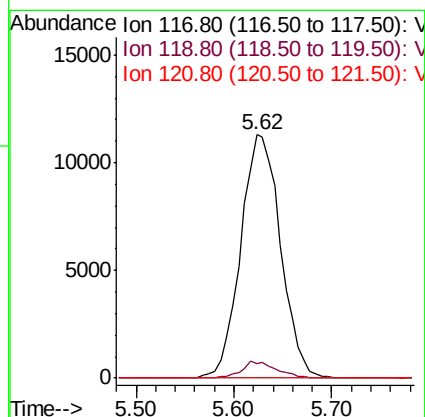
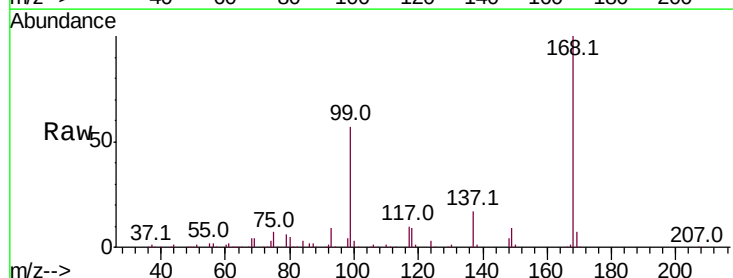
Tgt Ion: 117 Resp: 31876

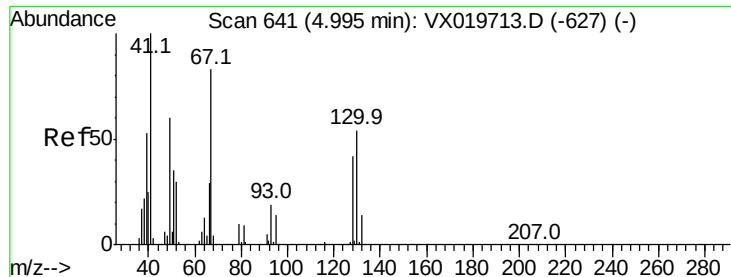
Ion Ratio Lower Upper

117 100

119 5.9 76.2 114.2#

121 0.0 24.8 37.2#

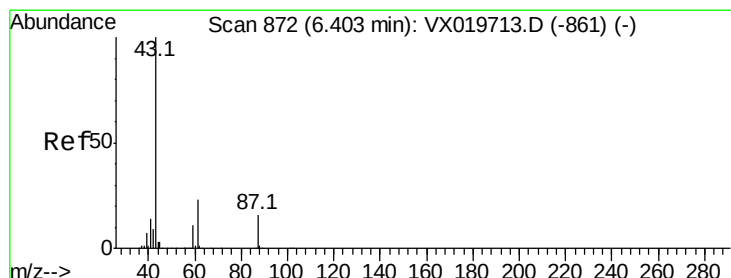
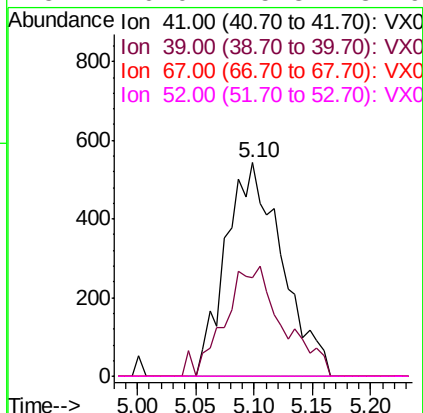
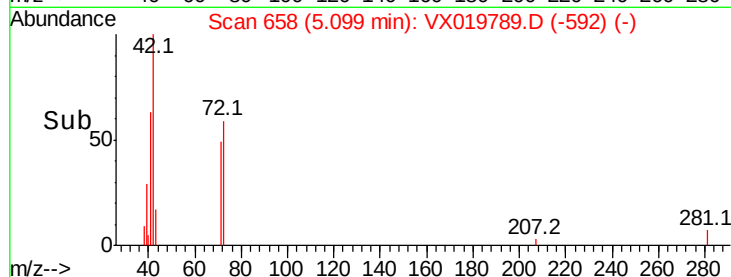
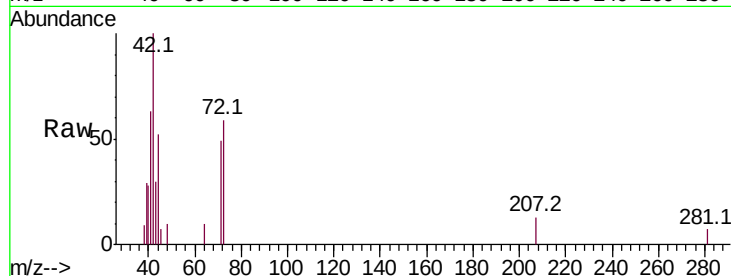




#41
Methacrylonitrile
Concen: 0.662 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.10 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

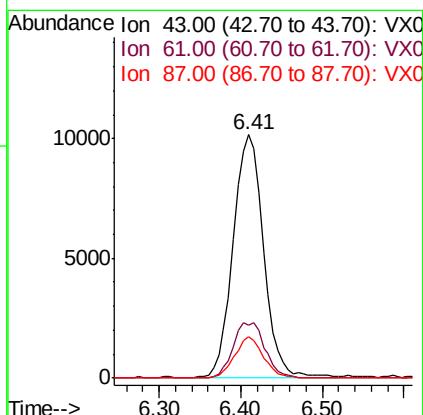
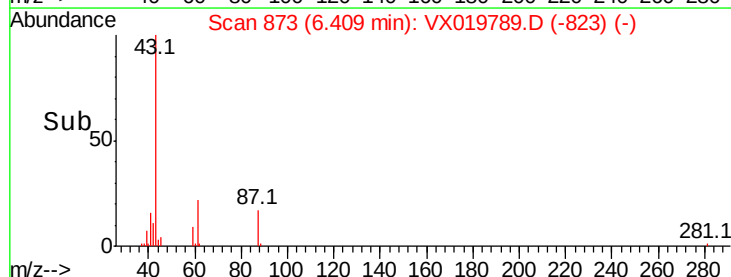
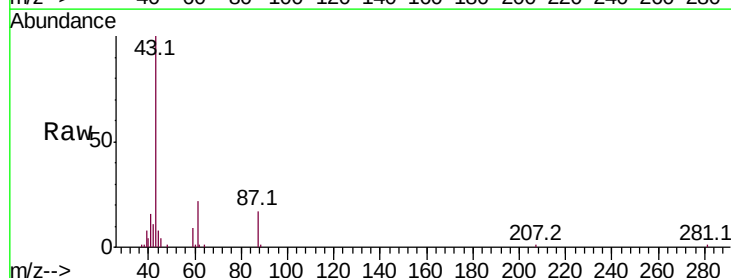
Instrument :
MSVOA_X
ClientSampleId :
5S2-A-BOTTOM

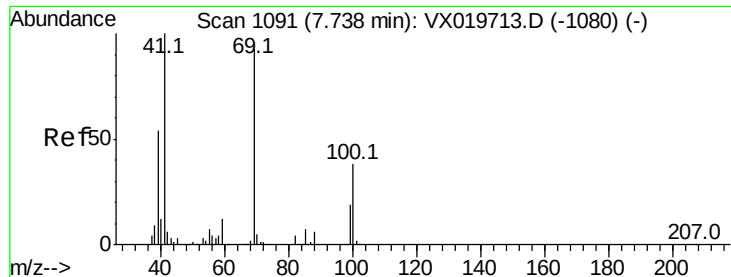
Tot Ion	Ratio	Lower	Upper
41	100		
39	53.4	42.5	63.7
67	0.0	65.0	97.6#
52	0.0	25.3	37.9#



#43
Isopropyl Acetate
Concen: 3.229 ug/l
RT: 6.41 min Scan# 873
Delta R.T. 0.01 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

Tgt Ion	Ratio	Lower	Upper
43	100		
61	23.6	18.2	27.4
87	15.8	12.5	18.7





#48

Methvl methacrylate

Concen: 1.865 ug/l

RT: 7.65 min Scan# 1076

Delta R.T. -0.09 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-BOTTOM

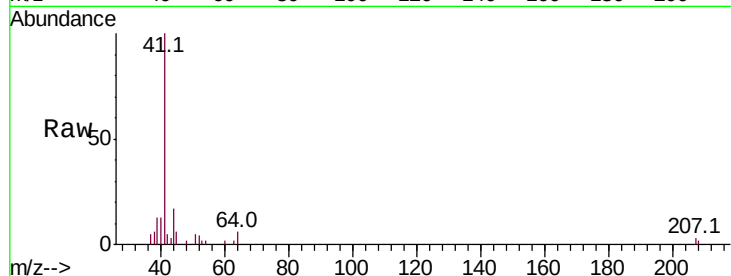
Tot Ion: 41 Resp: 7471

Ion Ratio Lower Upper

41 100

69 0.0 76.0 114.0#

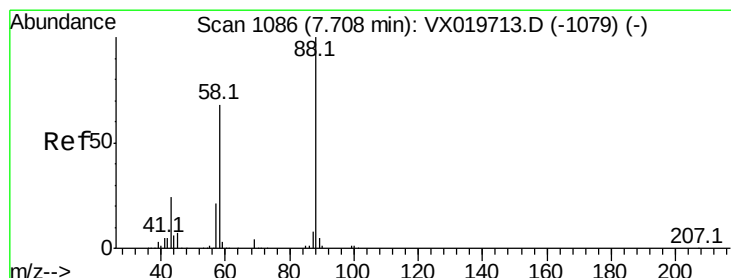
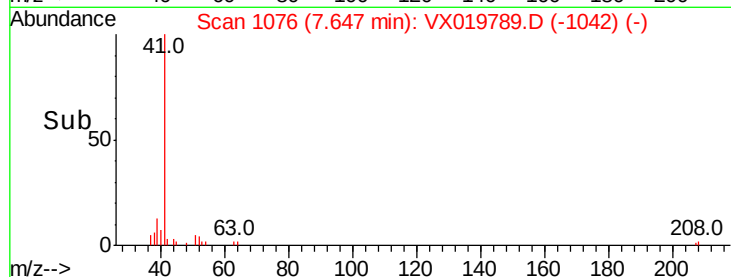
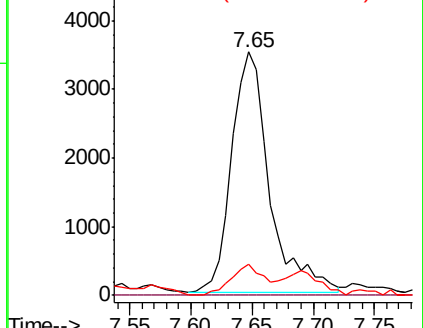
39 0.0 44.6 67.0#



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#49

1,4-Dioxane

Concen: 2.958 ug/l

RT: 7.85 min Scan# 1110

Delta R.T. 0.15 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

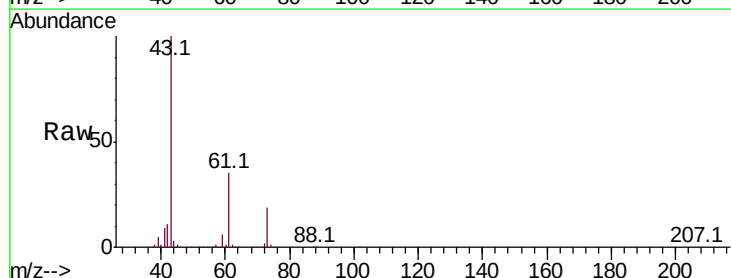
Tgt Ion: 88 Resp: 287

Ion Ratio Lower Upper

88 100

43 513120.9 23.2 34.8#

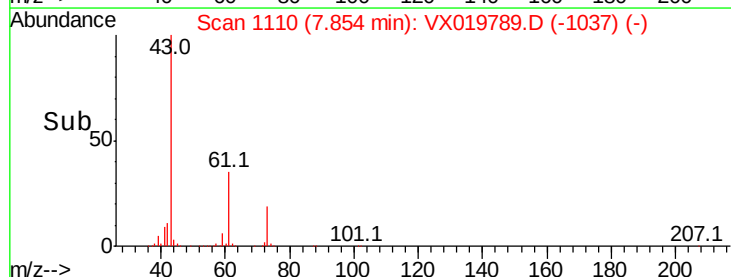
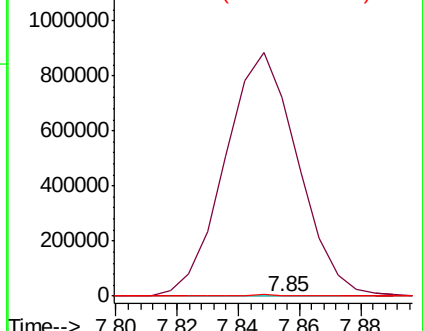
58 2513.2 55.0 82.4#

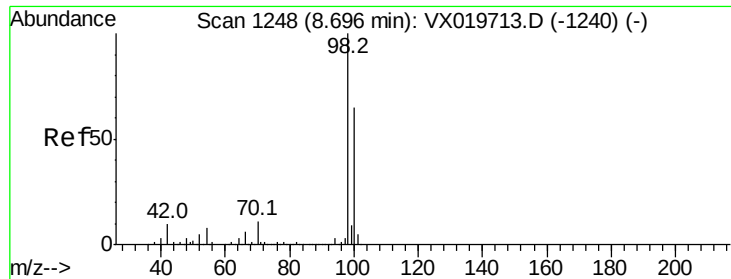


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.533 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

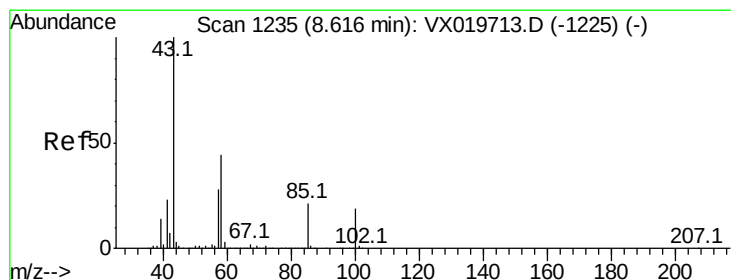
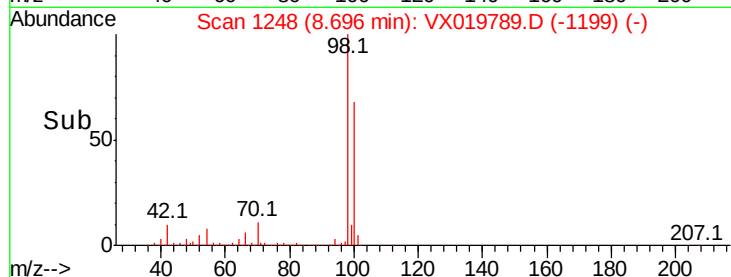
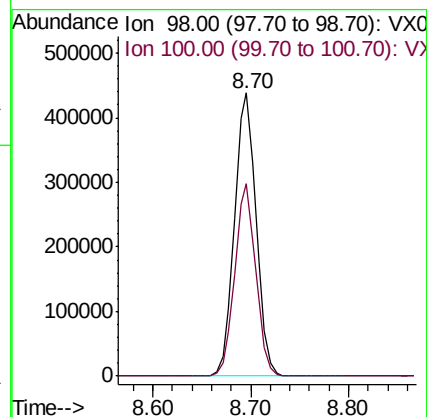
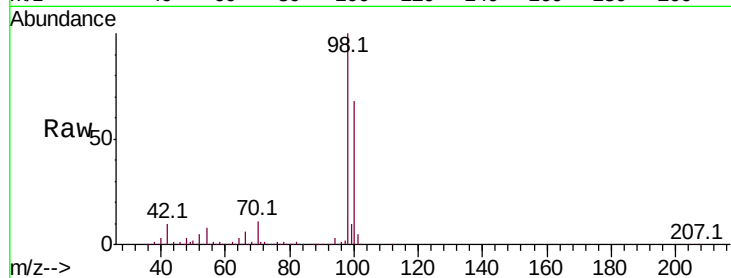
5S2-A-BOTTOM

Tot Ion: 98 Resp: 670997

Ion Ratio Lower Upper

98 100

100 65.7 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 19.431 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019789.D

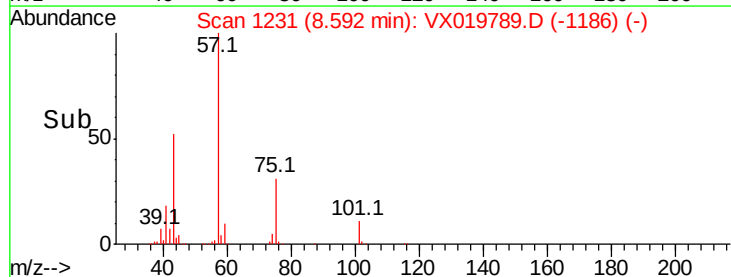
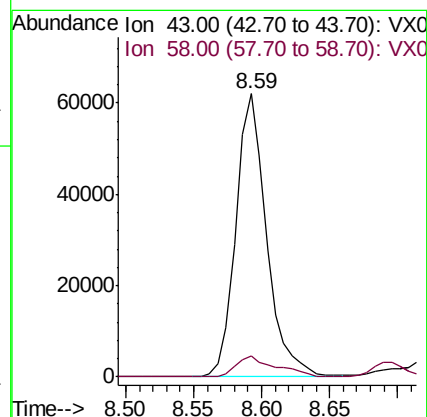
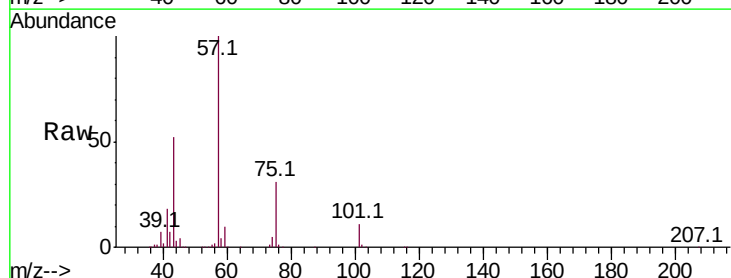
Acq: 09 Dec 2020 19:17

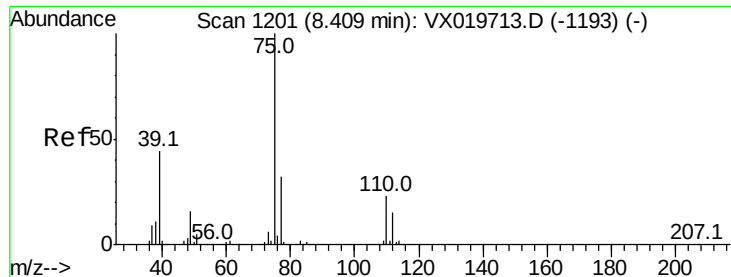
Tgt Ion: 43 Resp: 96613

Ion Ratio Lower Upper

43 100

58 9.7 35.4 53.0#





#54

cis-1,3-Dichloropropene

Concen: 8.470 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-BOTTOM

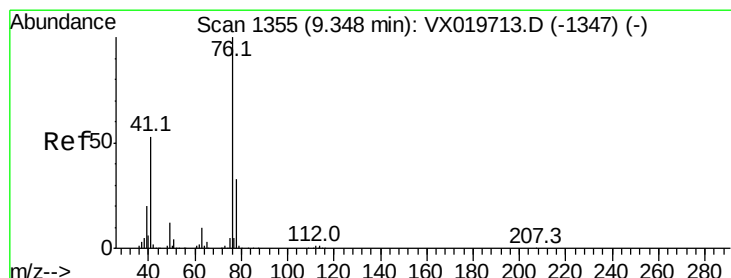
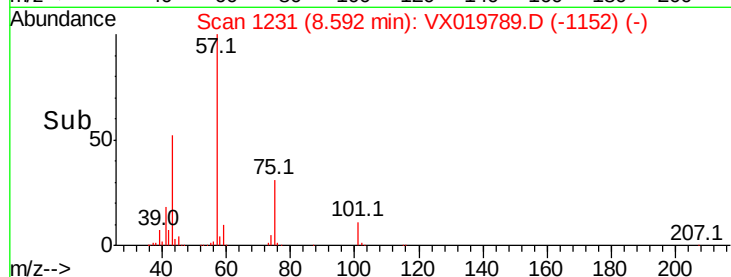
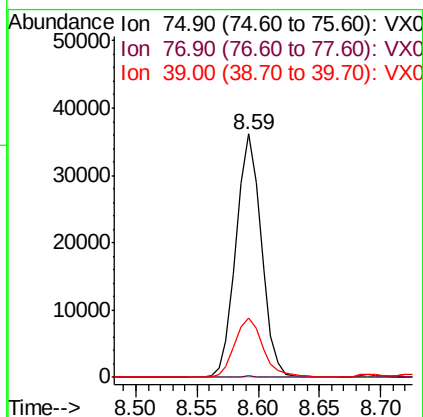
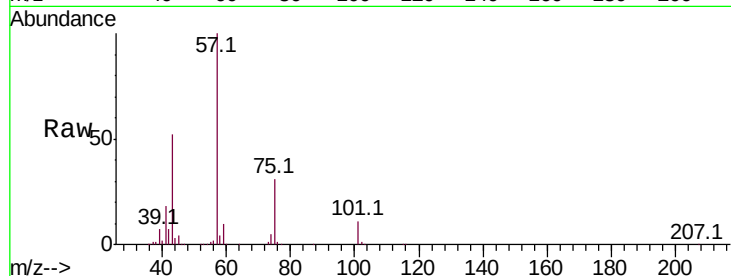
Tot Ion: 75 Resp: 51829

Ion Ratio Lower Upper

75 100

77 0.6 25.7 38.5#

39 24.2 35.1 52.7#



#57

1,3-Dichloropropane

Concen: 4.582 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.18 min

Lab File: VX019789.D

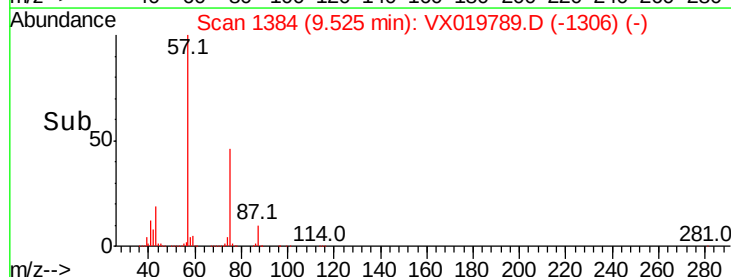
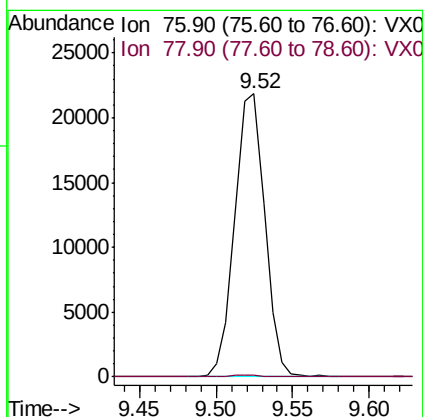
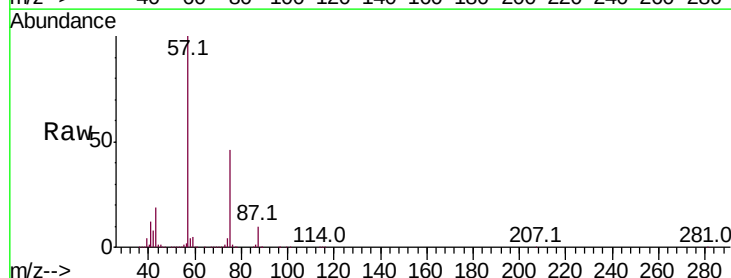
Acq: 09 Dec 2020 19:17

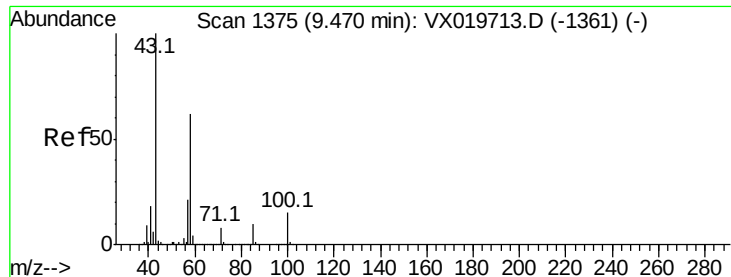
Tgt Ion: 76 Resp: 29886

Ion Ratio Lower Upper

76 100

78 0.5 26.2 39.2#

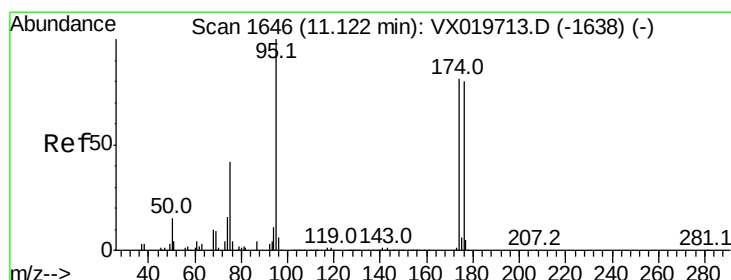
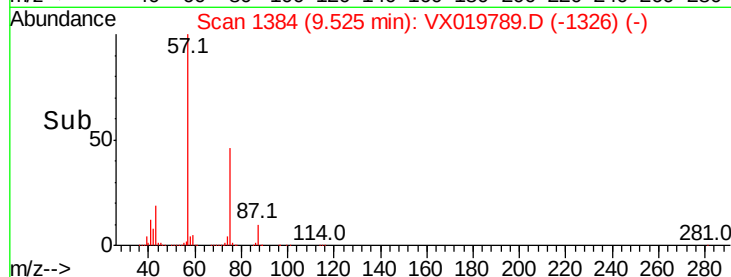
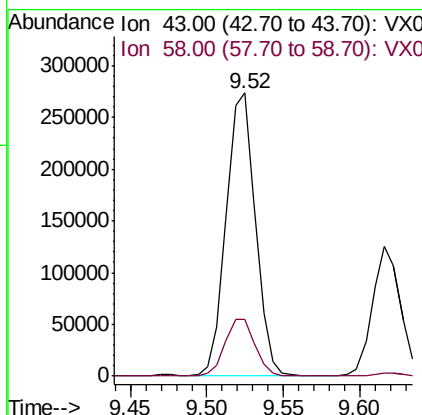
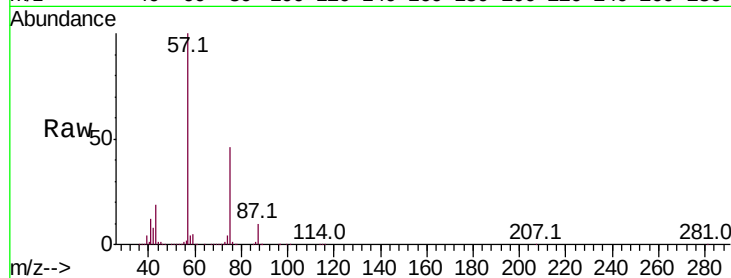




#59
2-Hexanone
Concen: 93.801 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

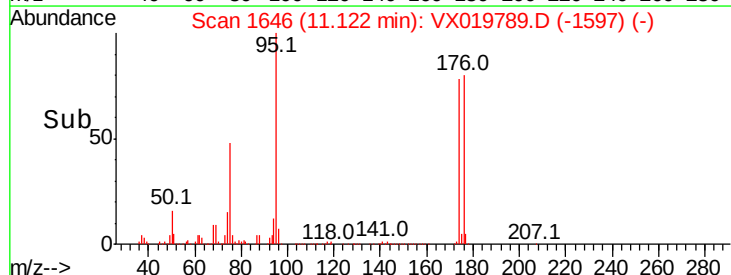
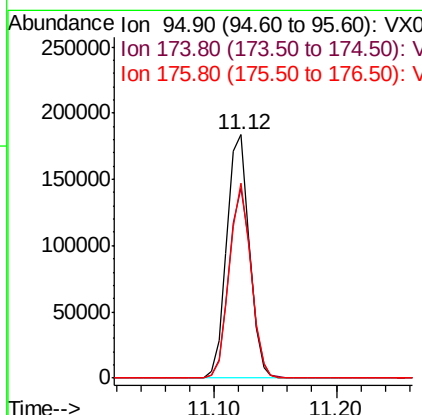
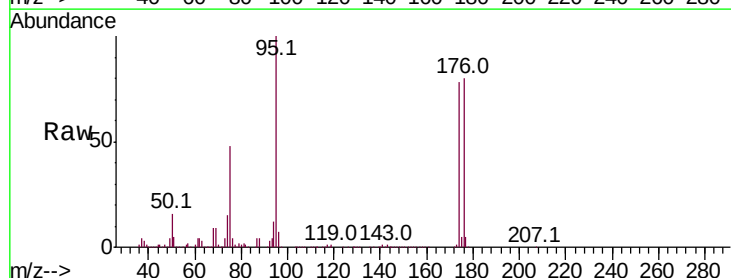
Instrument :
MSVOA_X
ClientSampleId :
5S2-A-BOTTOM

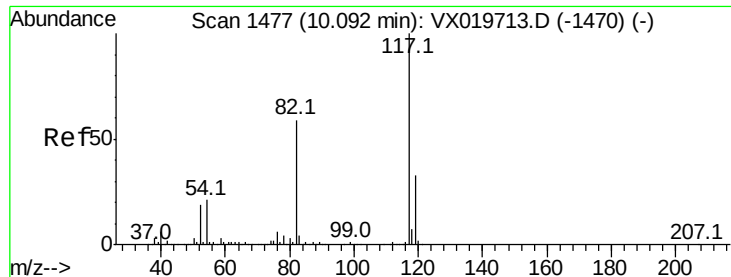
Tot Ion: 43 Resp: 361510
Ion Ratio Lower Upper
43 100
58 20.7 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 45.254 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

Tgt Ion: 95 Resp: 233327
Ion Ratio Lower Upper
95 100
174 77.1 0.0 154.6
176 76.4 0.0 155.8

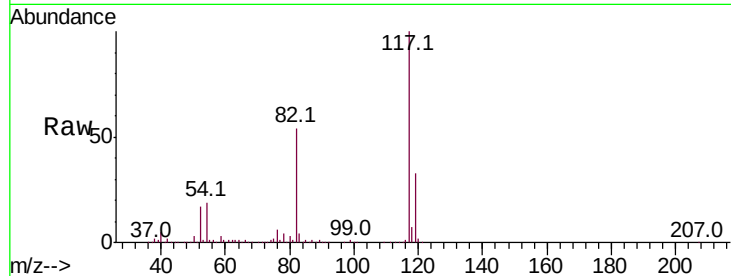




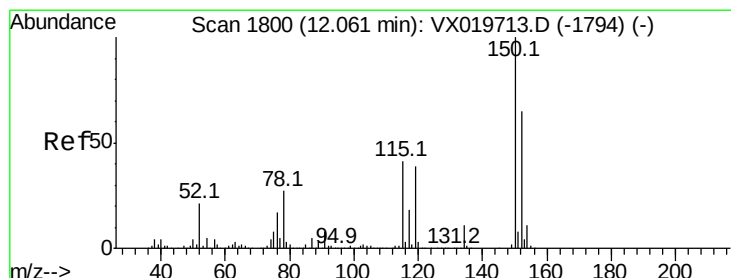
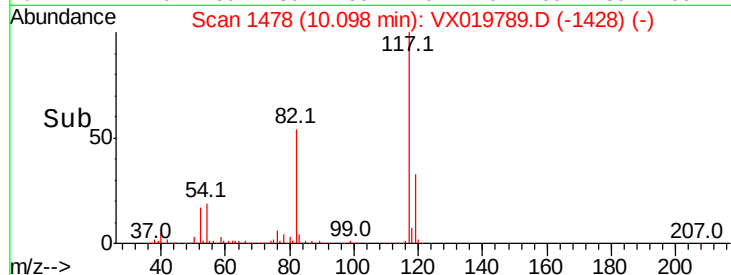
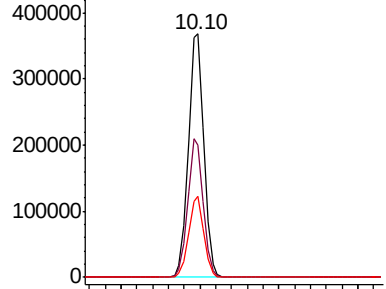
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

Instrument :
MSVOA_X
ClientSampleId :
5S2-A-BOTTOM

Tot Ion:117 Resp: 504535
Ion Ratio Lower Upper
117 100
82 54.1 47.4 71.2
119 33.1 26.6 39.8

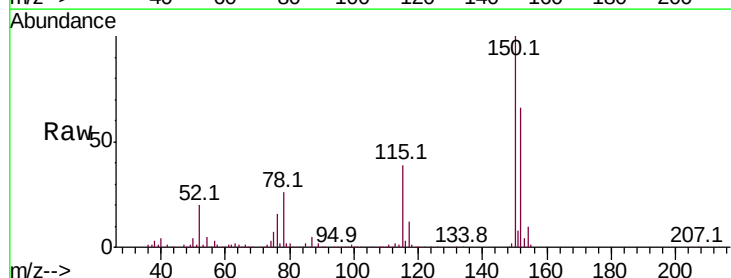


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

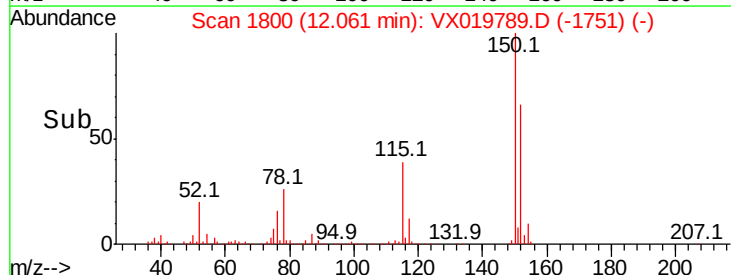
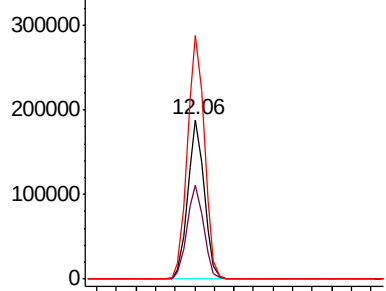


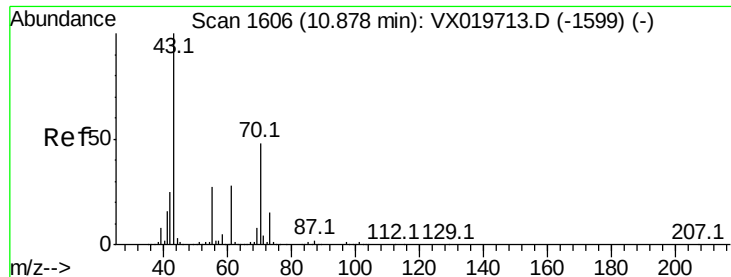
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019789.D
Acq: 09 Dec 2020 19:17

Tgt Ion:152 Resp: 219708
Ion Ratio Lower Upper
152 100
115 60.0 41.1 123.3
150 158.4 0.0 349.0



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





#74

N-amvl acetate

Concen: 0.221 ug/l

RT: 10.80 min Scan# 1594

Delta R.T. -0.07 min

Lab File: VX019789.D

Acq: 09 Dec 2020 19:17

Instrument :

MSVOA_X

ClientSampleId :

5S2-A-BOTTOM

Tot Ion: 43 Resp: 1329

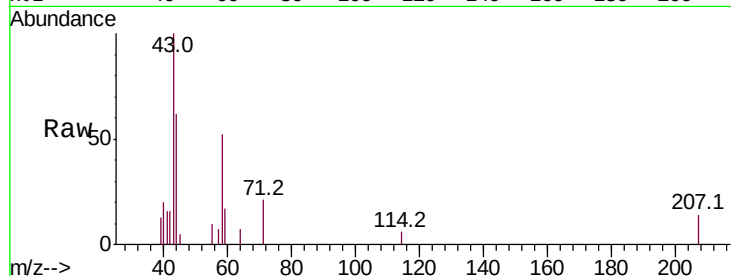
Ion Ratio Lower Upper

43 100

70 0.0 39.0 58.6#

55 16.6 21.5 32.3#

61 0.0 22.1 33.1#

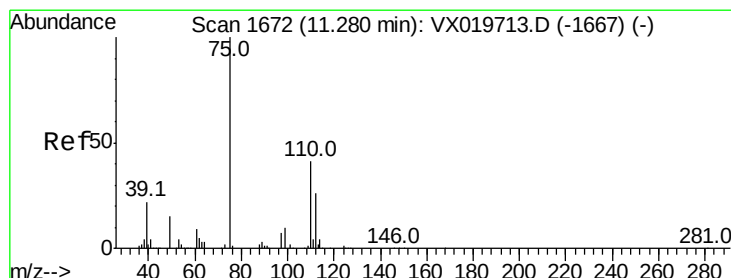
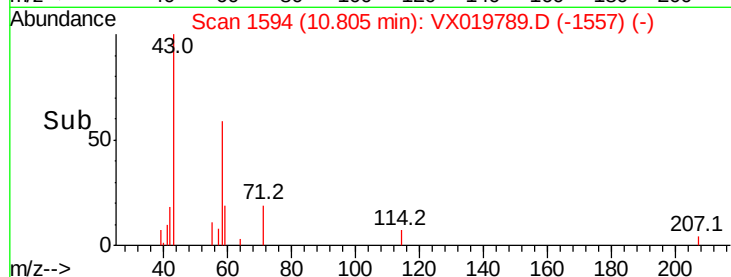
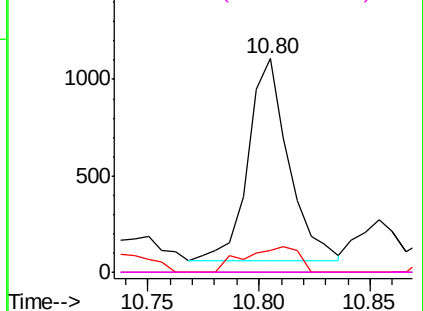


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 22.997 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019789.D

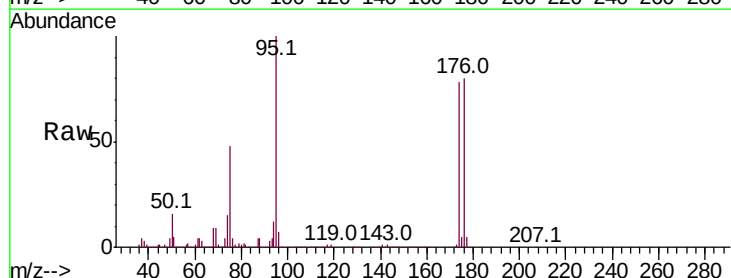
Acq: 09 Dec 2020 19:17

Tgt Ion: 75 Resp: 113322

Ion Ratio Lower Upper

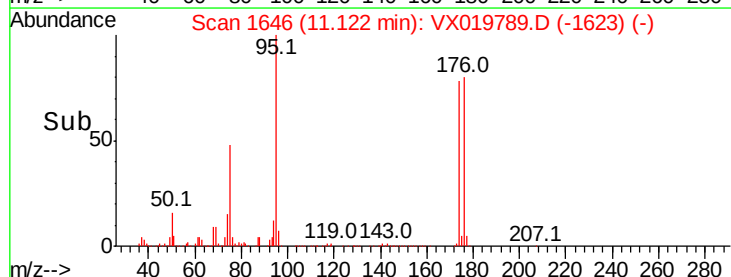
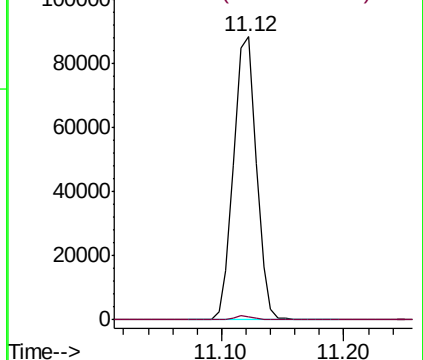
75 100

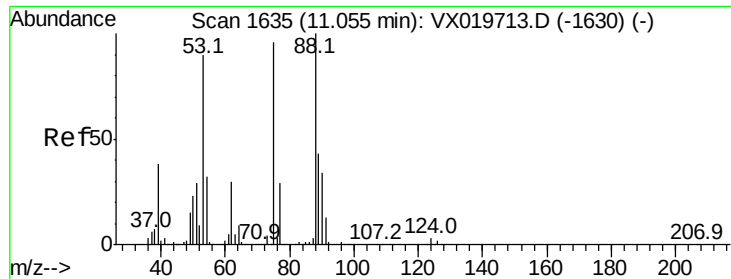
77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.480 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019789.D
 Acq: 09 Dec 2020 19:17

Instrument :
 MSVOA_X
 ClientSampleId :
 5S2-A-BOTTOM

Tot Ion: 75 Resp: 113322
 Ion Ratio Lower Upper
 75 100
 53 0.1 74.5 111.7#
 89 0.0 37.9 56.9#

