

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100620\
 Data File : VX018795.D
 Acq On : 06 Oct 2020 13:25
 Operator : JC/SP
 Sample : L4240-02DL 5X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3Q9DL

Quant Time: Oct 07 01:32:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 07 01:30:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	138632	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	134222	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	70651	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	36570	4.51	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.20%
7) Chloroethane-d5	1.70	69	33333	5.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.20%
11) 1,1-Dichloroethene-d2	2.34	63	68482	3.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.00%
20) 2-Butanone-d5	4.57	46	137353	64.66	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	129.32%
24) Chloroform-d	5.14	84	99090	5.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	101.20%
26) 1,2-Dichloroethane-d4	6.03	65	58041	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
32) Benzene-d6	6.04	84	180784	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
36) 1,2-Dichloropropane-d6	7.37	67	54423	5.64	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.80%
41) Toluene-d8	8.70	98	163059	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
45) trans-1,3-Dichloropropene-	8.99	79	24816	4.78	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.60%
48) 2-Hexanone-d5	9.43	63	108059	62.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	124.30%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	43424	5.54	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.80%
65) 1,2-Dichlorobenzene-d4	12.36	152	69456	5.33	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	2.33	96	773	0.112	ug/L #	1
13) Acetone	2.48	43	849	0.732	ug/L	50
14) Carbon disulfide	2.54	76	1650	0.076	ug/L	96
15) Methyl Acetate	2.82	43	61527	21.586	ug/L #	48
16) Methylene chloride	2.82	84	4187	0.500	ug/L #	52
21) 2-Butanone	4.51	43	1567	0.928	ug/L #	55
22) cis-1,2-Dichloroethene	4.56	96	1082	0.142	ug/L #	83
29) 1,1,1-Trichloroethane	5.46	97	11876	0.748	ug/L	94
30) Cyclohexane	5.54	56	81467	7.398	ug/L	98
37) 1,2-Dichloropropane	7.37	63	7115	1.010	ug/L #	83
39) cis-1,3-Dichloropropene	8.37	75	2173	0.193	ug/L #	67
42) Toluene	8.76	91	472255	15.355	ug/L	96
43) 1,3,5-Trimethylbenzene	11.49	105	97475	3.349	ug/L	99
44) 1,2,4-Trimethylbenzene	11.79	105	297366	10.065	ug/L	99
47) 1,1,2-Trichloroethane	9.15	97	862	0.162	ug/L #	36
50) 2-Hexanone	9.43	43	13673	4.615	ug/L #	64
53) Chlorobenzene	10.12	112	14146	0.672	ug/L	95

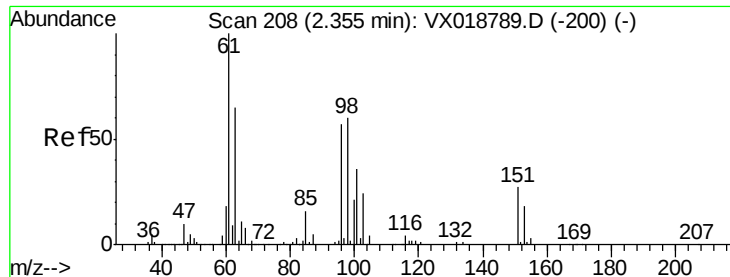
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100620\
 Data File : VX018795.D
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 Operator : JC/SP
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 07 01:30:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.24	91	42901	1.244	ug/L	95
55) m,p-xylene	10.34	106	58889	4.379	ug/L	98
56) o-xylene	10.68	106	22869	1.840	ug/L	99
57) Styrene	10.68	104	1462	0.069	ug/L #	1
58) Isopropylbenzene	11.00	105	16492	0.474	ug/L	97
63) 1,3-Dichlorobenzene	12.01	146	9578	0.558	ug/L	97
64) 1,4-Dichlorobenzene	12.09	146	36059	2.106	ug/L	95
66) 1,2-Dichlorobenzene	12.38	146	12153	0.758	ug/L	95
69) 1,2,4-trichlorobenzene	13.63	180	91150	8.306	ug/L	97
70) Naphthalene	13.82	128	15655	0.873	ug/L	98
71) 1,2,3-Trichlorobenzene	14.00	180	32546	3.296	ug/L	100

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



#12

1,1-Dichloroethene

Concen: 0.112 ug/L

RT: 2.33 min Scan# 204

Delta R.T. -0.02 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

Instrument :

MSVOA_X

ClientSampled :

BG3Q9DL

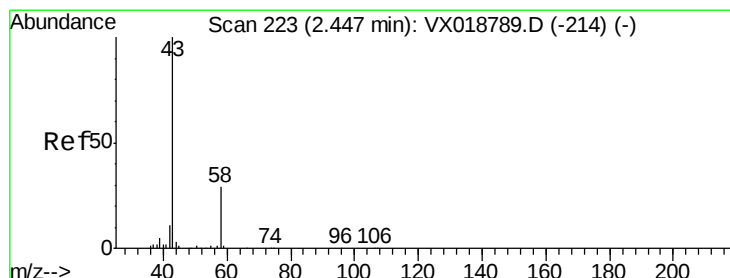
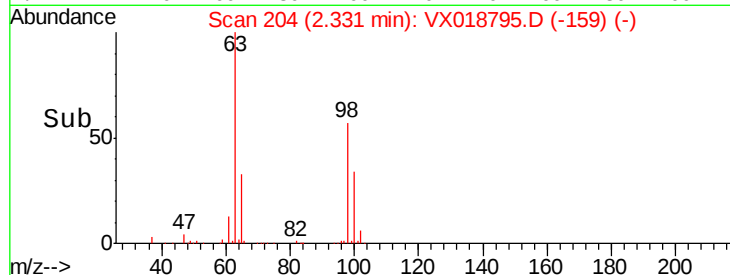
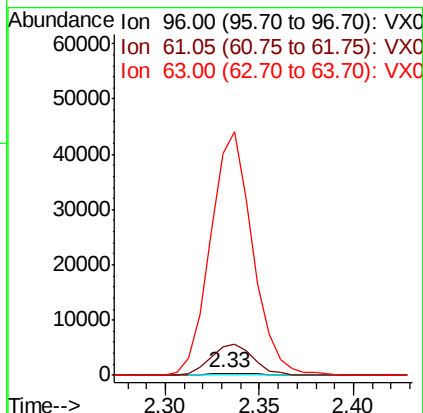
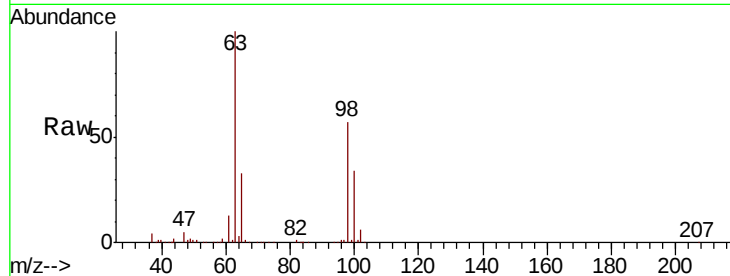
Tot Ion: 96 Resp: 773

Ion Ratio Lower Upper

96 100

61 1376.6 133.2 247.4#

63 10802.2 115.1 213.7#



#13

Acetone

Concen: 0.732 ug/L

RT: 2.48 min Scan# 228

Delta R.T. 0.03 min

Lab File: VX018795.D

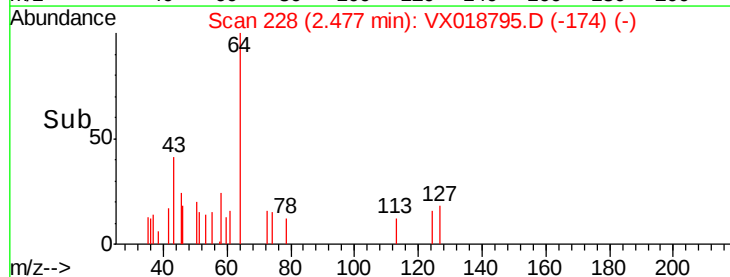
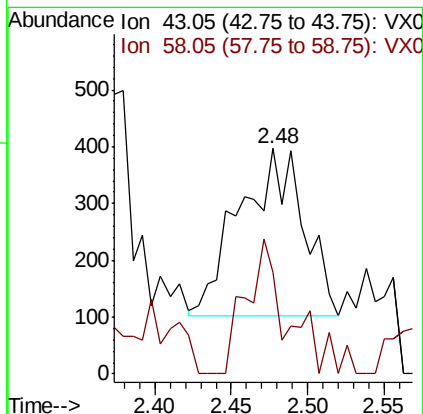
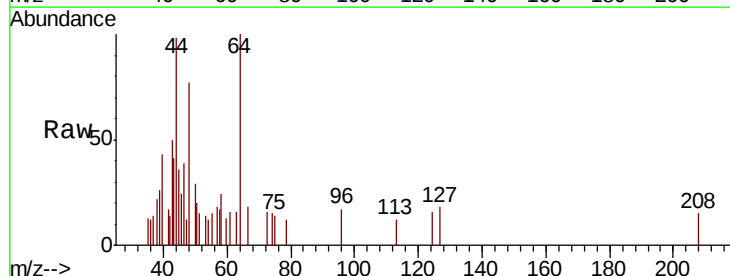
Acq: 06 Oct 2020 13:25

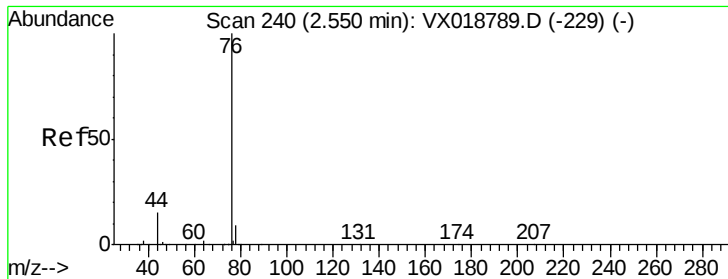
Tgt Ion: 43 Resp: 849

Ion Ratio Lower Upper

43 100

58 54.8 0.0 56.4





#14

Carbon disulfide

Concen: 0.076 ug/L

RT: 2.54 min Scan# 239

Delta R.T. -0.01 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

Instrument :

MSVOA_X

ClientSampleId :

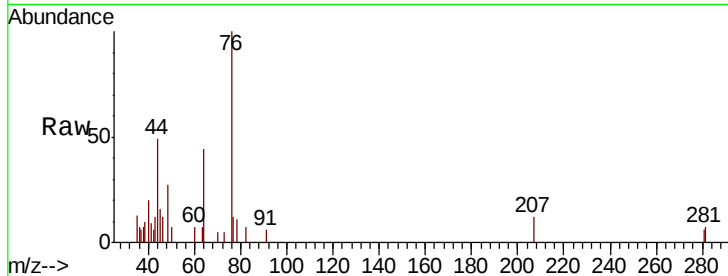
BG3Q9DL

Tot Ion: 76 Resp: 1650

Ion Ratio Lower Upper

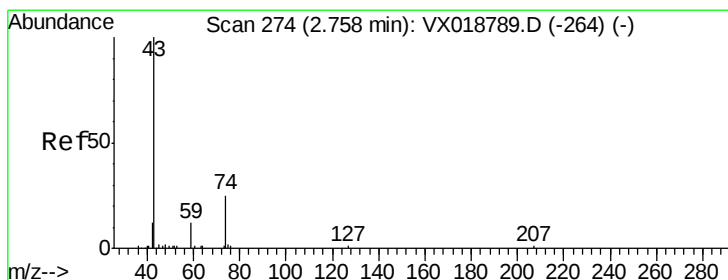
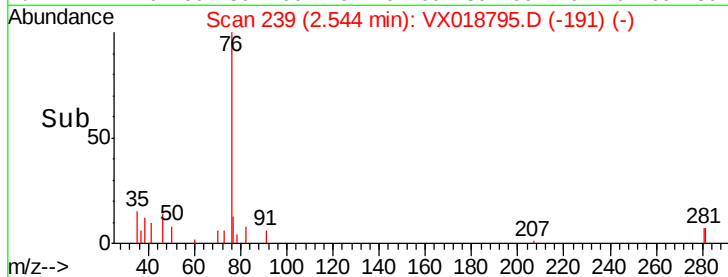
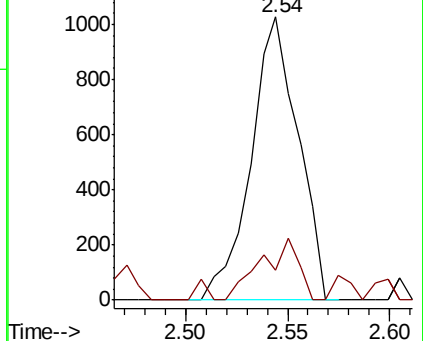
76 100

78 10.7 7.4 11.2



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



#15

Methyl Acetate

Concen: 21.586 ug/L

RT: 2.82 min Scan# 284

Delta R.T. 0.06 min

Lab File: VX018795.D

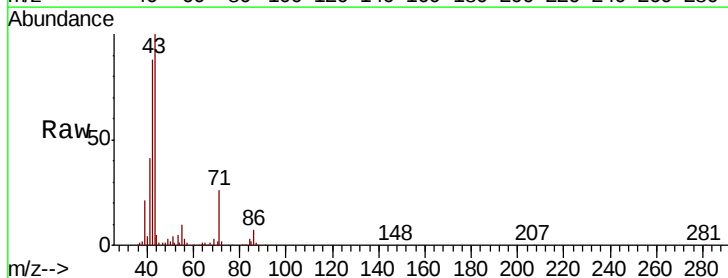
Acq: 06 Oct 2020 13:25

Tgt Ion: 43 Resp: 61527

Ion Ratio Lower Upper

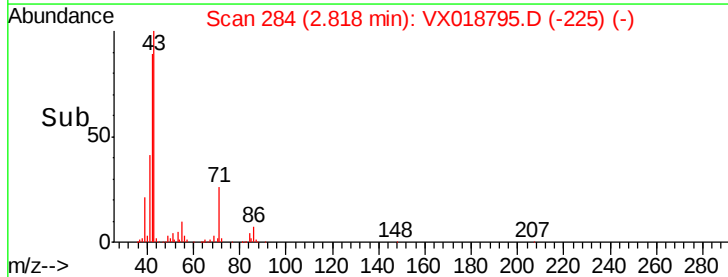
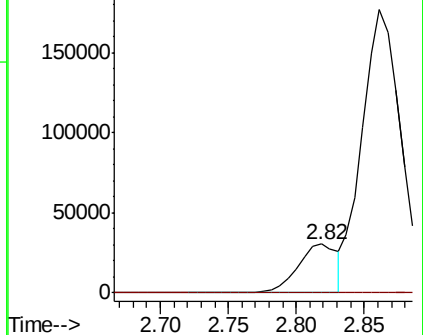
43 100

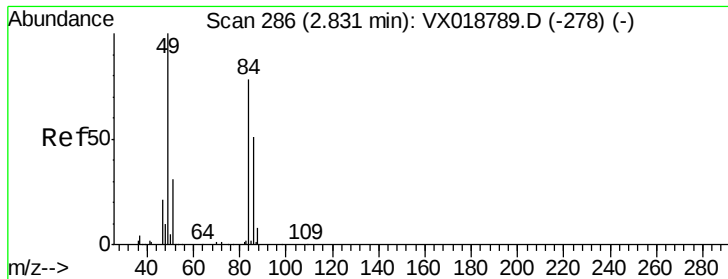
74 0.1 21.9 32.9#



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 74.05 (73.75 to 74.75): VX0

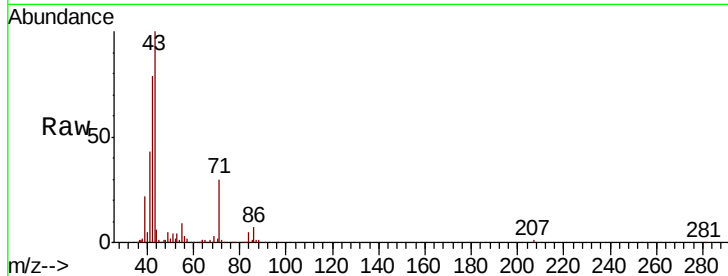




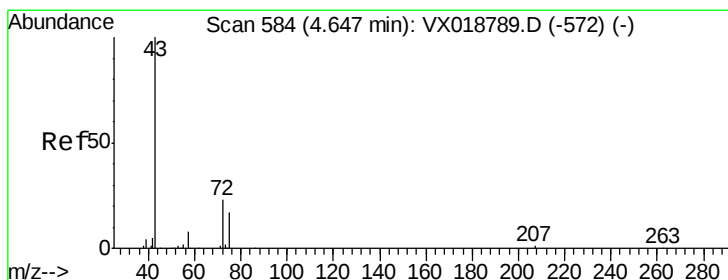
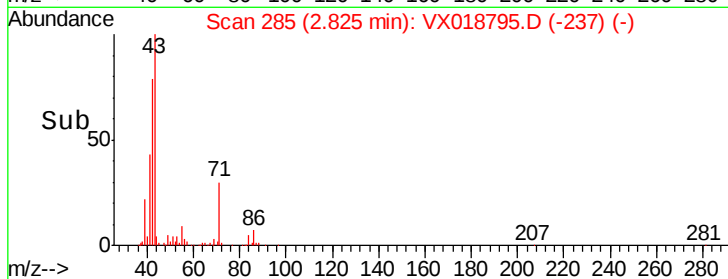
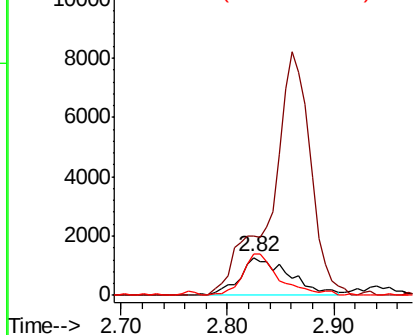
#16
Methylene chloride
Concen: 0.500 ug/L
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX018795.D
Acq: 06 Oct 2020 13:25

Instrument :
MSVOA_X
ClientSampleID :
BG3Q9DL

Tot Ion: 84 Resp: 4187
Ion Ratio Lower Upper
84 100
86 155.9 45.6 84.8#
49 108.9 85.8 159.3

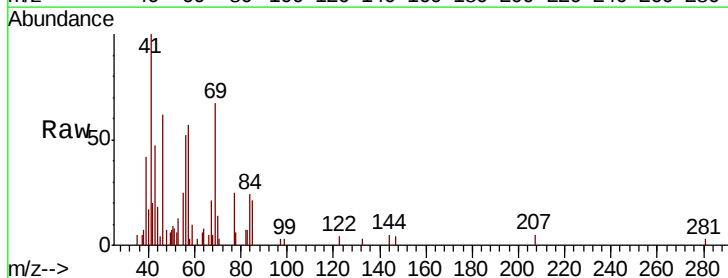


Abundance Ion 84.05 (83.75 to 84.75): VX0
Ion 86.00 (85.70 to 86.70): VX0
Ion 49.10 (48.80 to 49.80): VX0

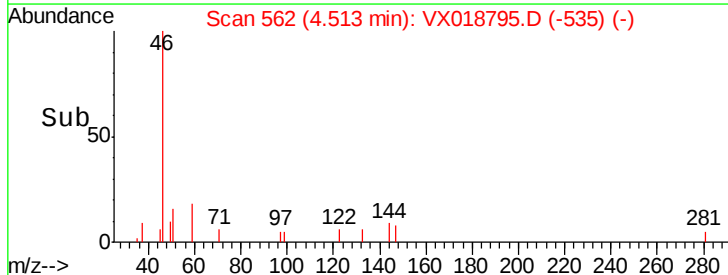
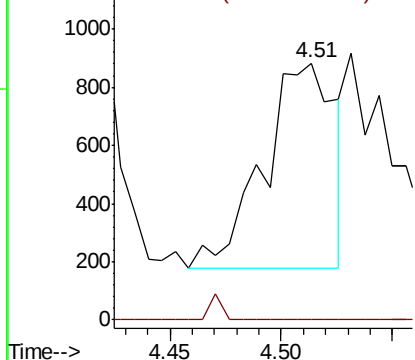


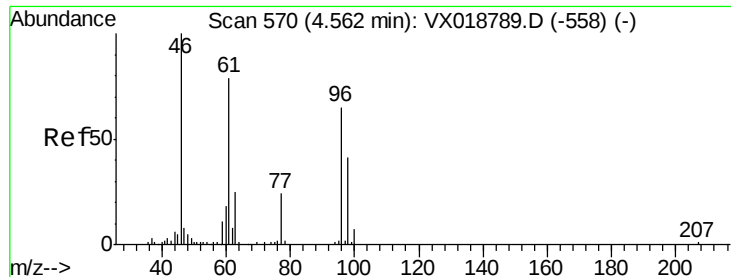
#21
2-Butanone
Concen: 0.928 ug/L
RT: 4.51 min Scan# 562
Delta R.T. -0.13 min
Lab File: VX018795.D
Acq: 06 Oct 2020 13:25

Tgt Ion: 43 Resp: 1567
Ion Ratio Lower Upper
43 100
72 2.2 12.4 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0



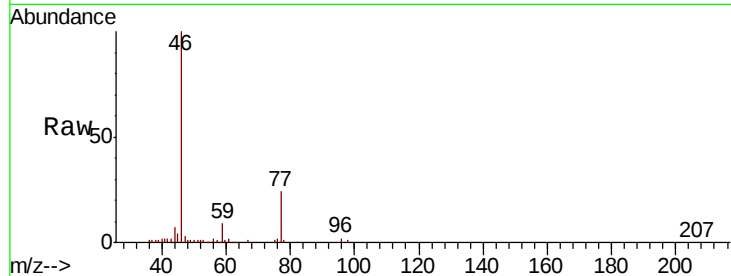


#22

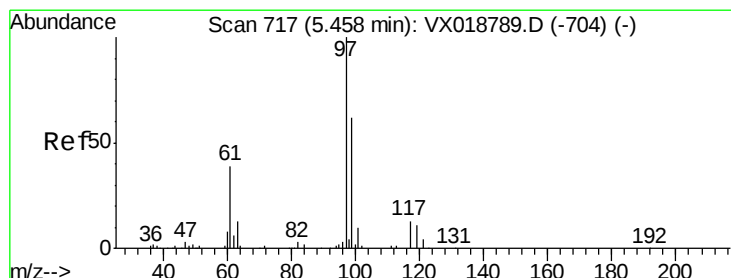
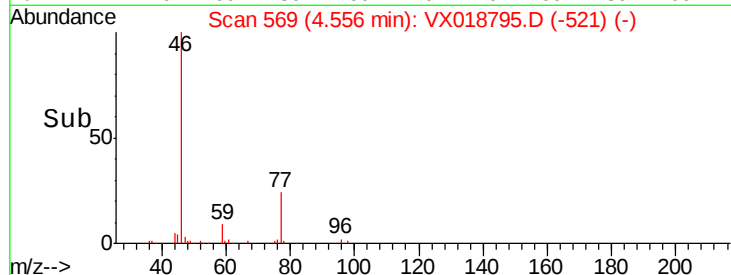
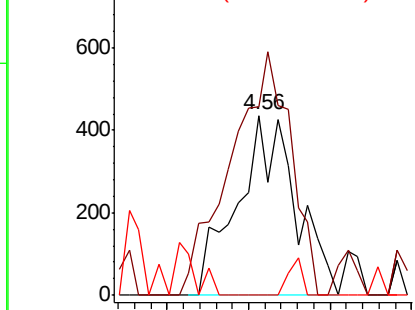
cis-1,2-Dichloroethene
 Concen: 0.142 ug/L
 RT: 4.56 min Scan# 569
 Delta R.T. -0.01 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3Q9DL

Tot Ion: 96 Resp: 1082
 Ion Ratio Lower Upper
 96 100
 61 104.3 86.2 160.0
 68 0.0 0.3 0.7#



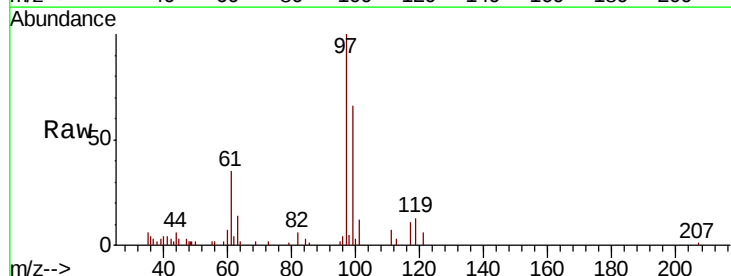
Abundance Ion 96.00 (95.70 to 96.70): VX0
 Ion 61.05 (60.75 to 61.75): VX0
 Ion 68.15 (67.85 to 68.85): VX0



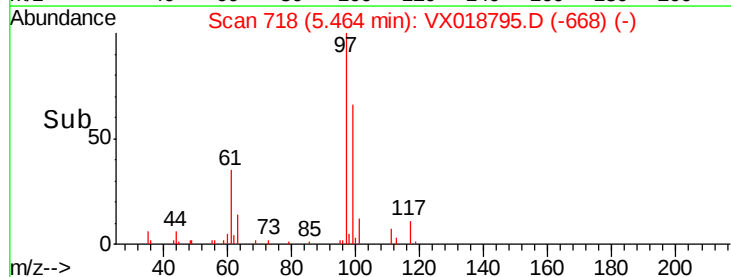
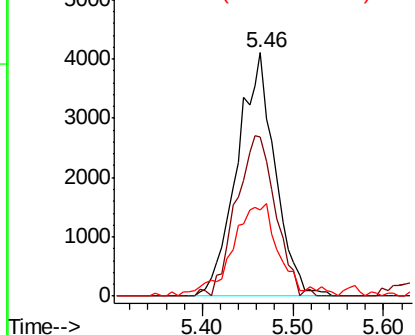
#29

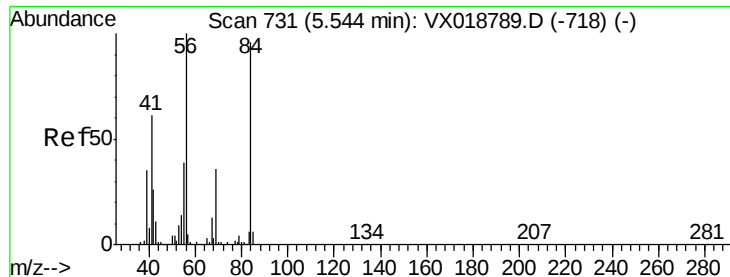
1,1,1-Trichloroethane
 Concen: 0.748 ug/L
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

Tgt Ion: 97 Resp: 11876
 Ion Ratio Lower Upper
 97 100
 99 68.7 51.3 76.9
 61 44.8 33.3 49.9



Abundance Ion 96.95 (96.65 to 97.65): VX0
 Ion 99.05 (98.75 to 99.75): VX0
 Ion 61.05 (60.75 to 61.75): VX0

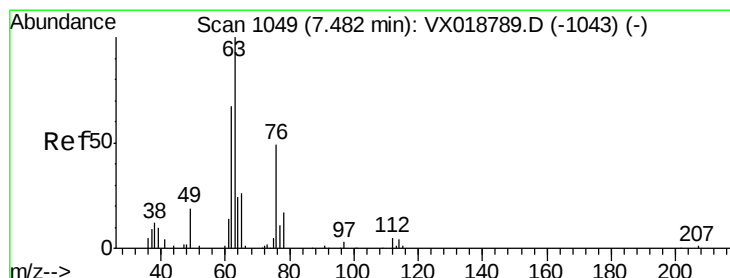
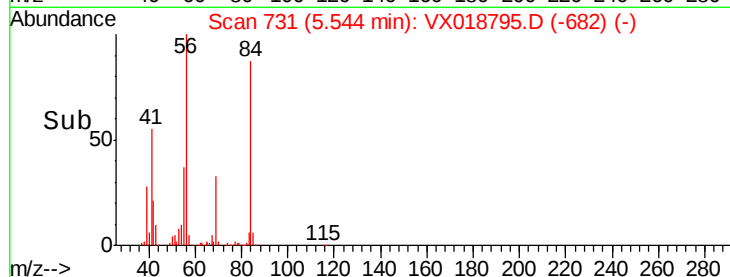
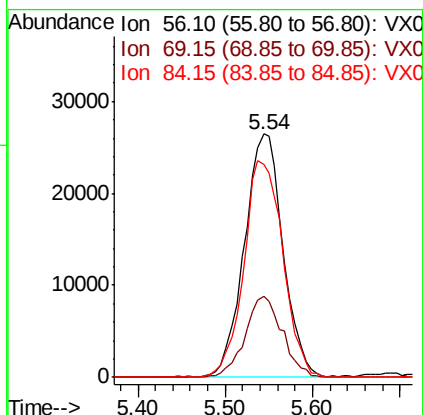
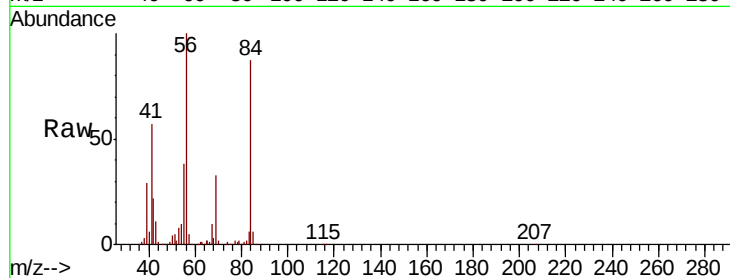




#30
Cyclohexane
Concen: 7.398 ug/L
RT: 5.54 min Scan# 731
Delta R.T. -0.00 min
Lab File: VX018795.D
Acq: 06 Oct 2020 13:25

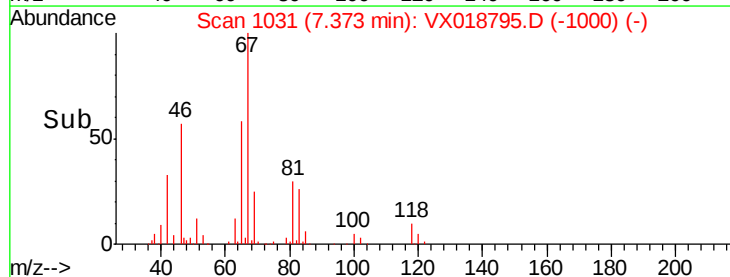
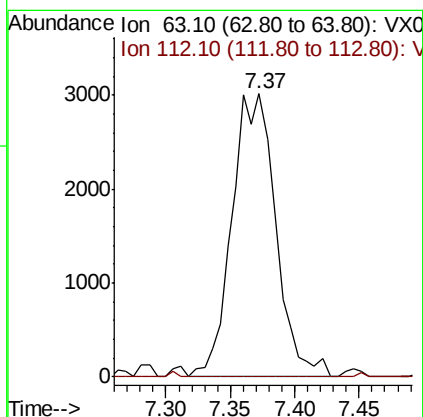
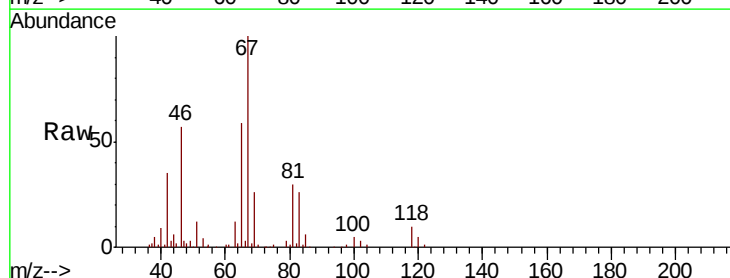
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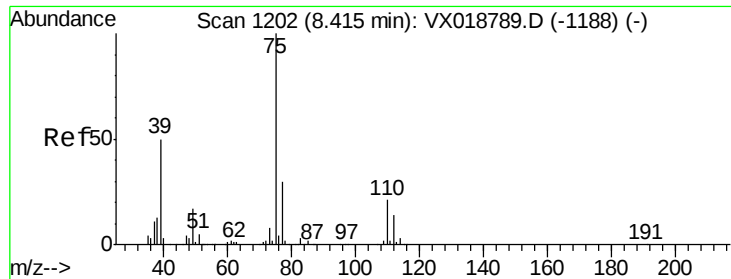
Tot Ion: 56 Resp: 81467
Ion Ratio Lower Upper
56 100
69 32.1 26.0 39.0
84 90.0 73.8 110.6



#37
1,2-Dichloropropane
Concen: 1.010 ug/L
RT: 7.37 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VX018795.D
Acq: 06 Oct 2020 13:25

Tgt Ion: 63 Resp: 7115
Ion Ratio Lower Upper
63 100
112 0.3 4.7 7.1#



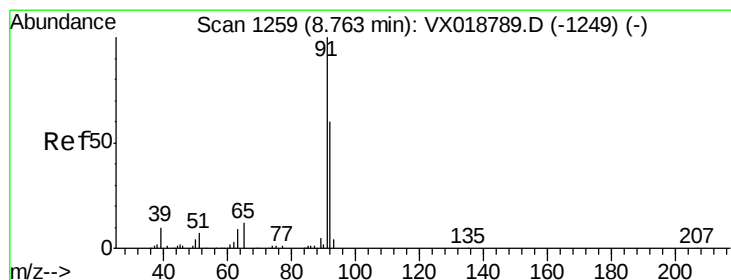
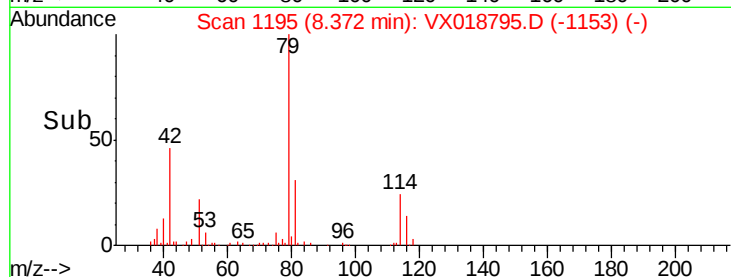
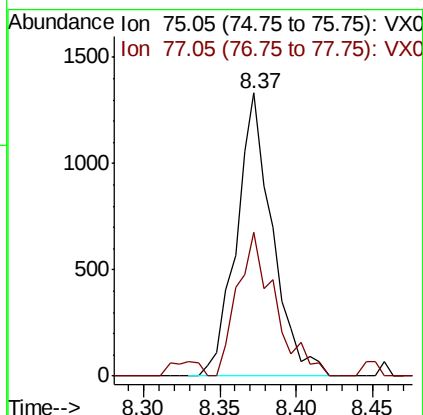
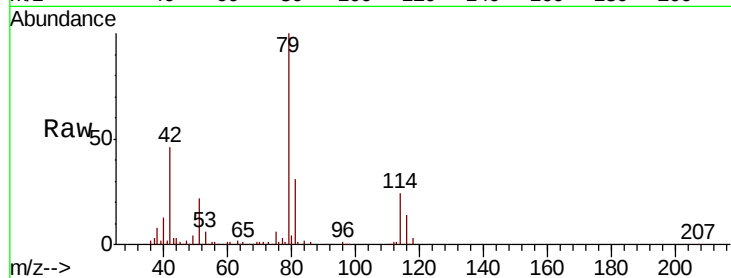


#39

cis-1,3-Dichloropropene
Concen: 0.193 ug/L
RT: 8.37 min Scan# 1195
Delta R.T. -0.04 min
Lab File: VX018795.D
Acq: 06 Oct 2020 13:25

Instrument :
MSVOA_X
ClientSampled :
BG3Q9DL

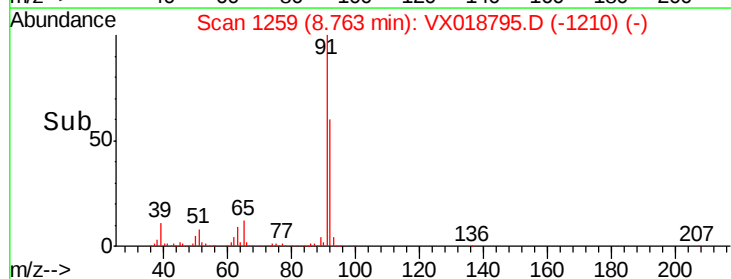
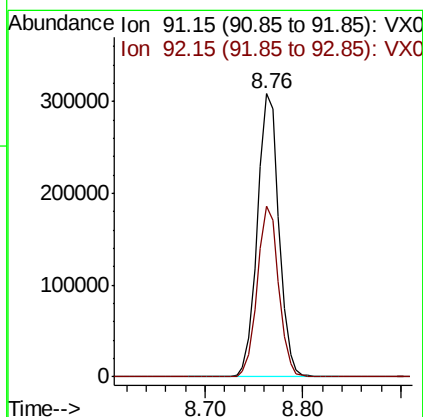
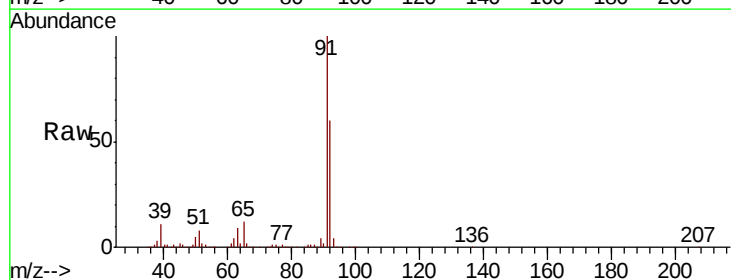
Tot Ion: 75 Resp: 2173
Ion Ratio Lower Upper
75 100
77 50.6 22.5 41.7#

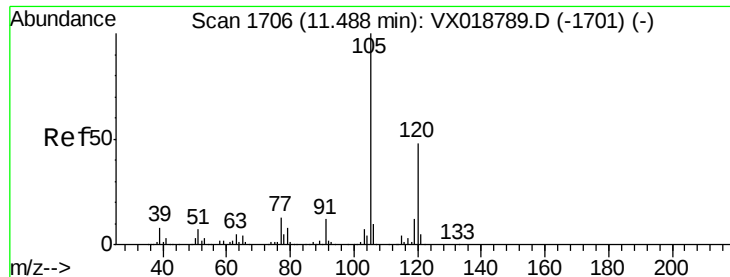


#42

Toluene
Concen: 15.355 ug/L
RT: 8.76 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VX018795.D
Acq: 06 Oct 2020 13:25

Tgt Ion: 91 Resp: 472255
Ion Ratio Lower Upper
91 100
92 60.2 40.3 74.9

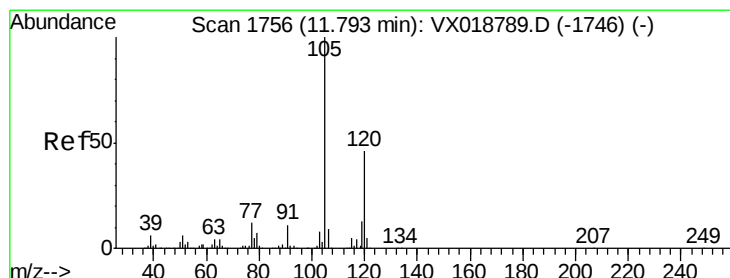
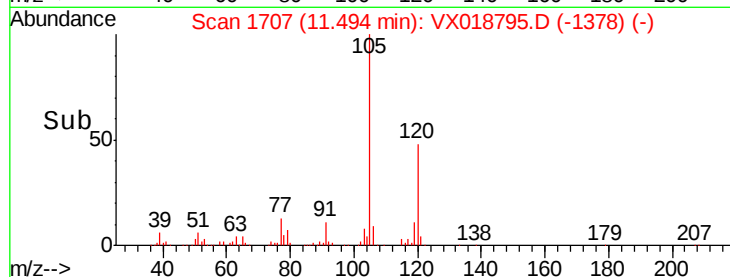
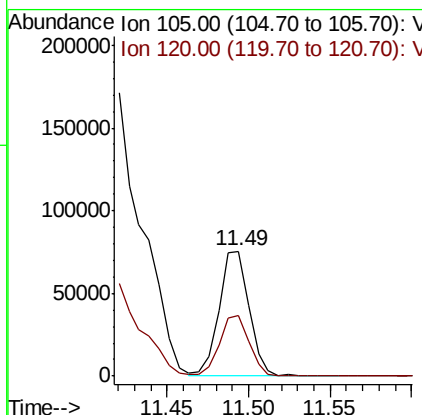
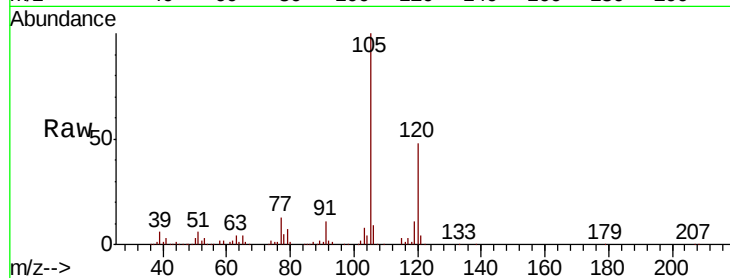




#43
 1,3,5-Trimethylbenzene
 Concen: 3.349 ug/L
 RT: 11.49 min Scan# 1707
 Delta R.T. 0.01 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

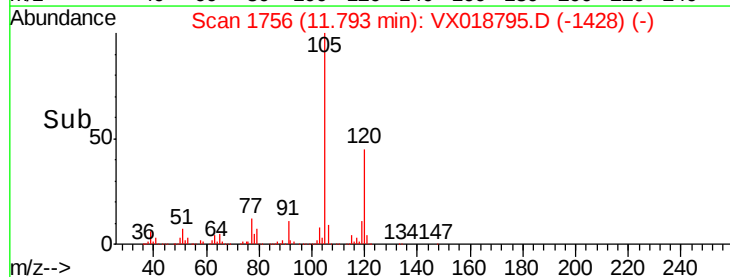
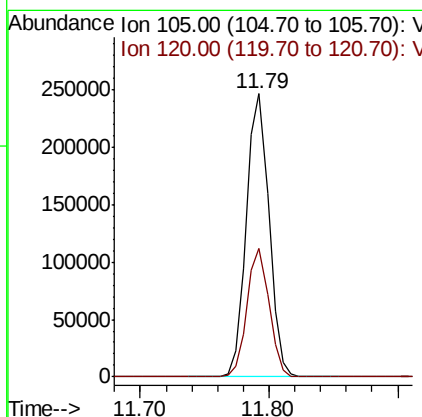
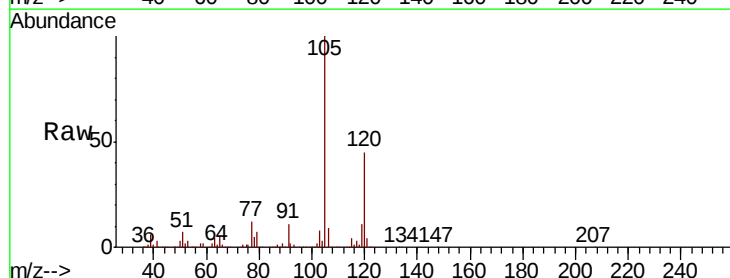
Instrument :
 MSVOA_X
 ClientSampleID :
 BG3Q9DL

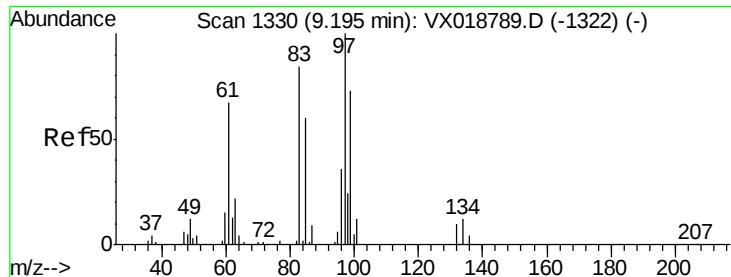
Tot Ion:105 Resp: 97475
 Ion Ratio Lower Upper
 105 100
 120 47.7 37.7 56.5



#44
 1,2,4-Trimethylbenzene
 Concen: 10.065 ug/L
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

Tgt Ion:105 Resp: 297366
 Ion Ratio Lower Upper
 105 100
 120 44.6 35.1 52.7

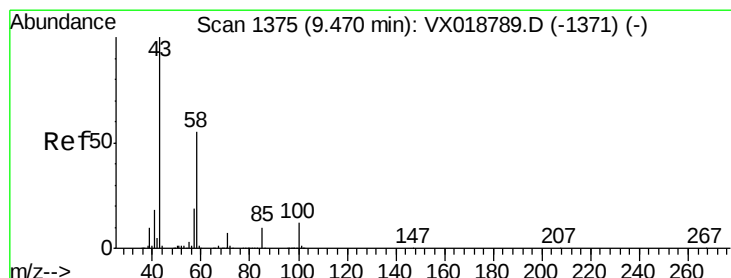
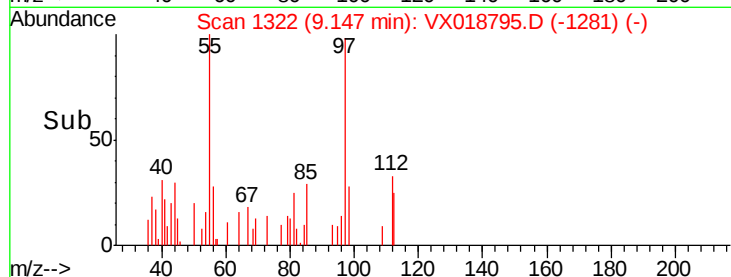
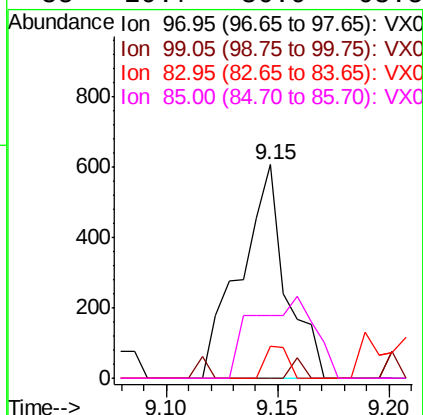
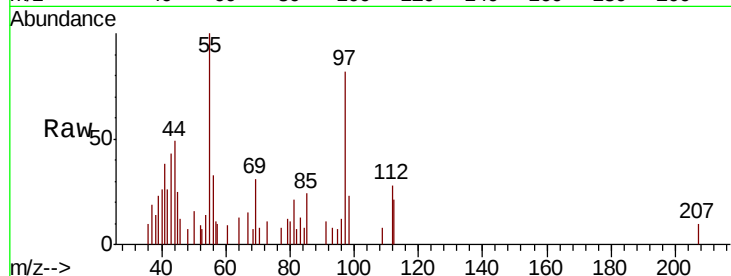




#47
 1,1,2-Trichloroethane
 Concen: 0.162 ug/L
 RT: 9.15 min Scan# 1322
 Delta R.T. -0.05 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

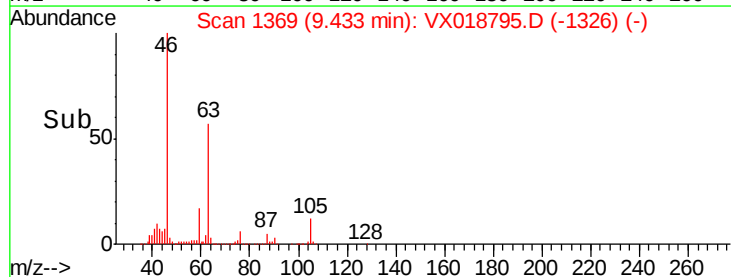
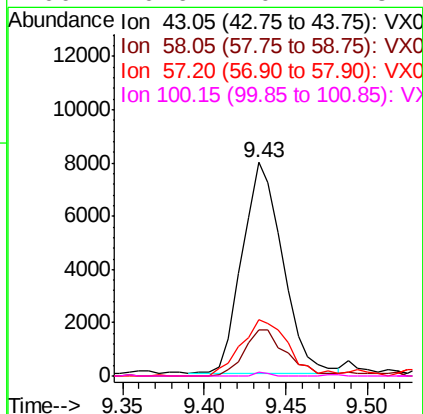
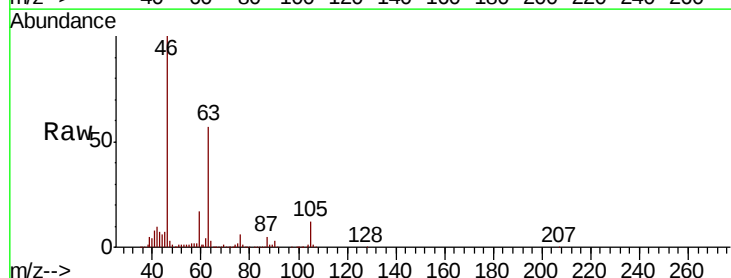
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3Q9DL

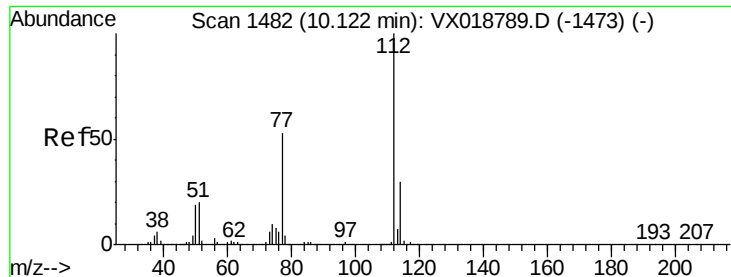
Tot Ion:	97	Resp:	862
Ion	Ratio	Lower	Upper
97	100		
99	0.0	41.1	76.3#
83	15.3	57.5	106.7#
85	29.7	36.9	68.5#



#50
 2-Hexanone
 Concen: 4.615 ug/L
 RT: 9.43 min Scan# 1369
 Delta R.T. -0.04 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

Tgt Ion:	43	Resp:	13673
Ion	Ratio	Lower	Upper
43	100		
58	22.6	41.0	61.4#
57	31.3	15.9	23.9#
100	0.6	10.1	15.1#





#53

Chlorobenzene

Concen: 0.672 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

Instrument :

MSVOA_X

ClientSampleId :

BG3Q9DL

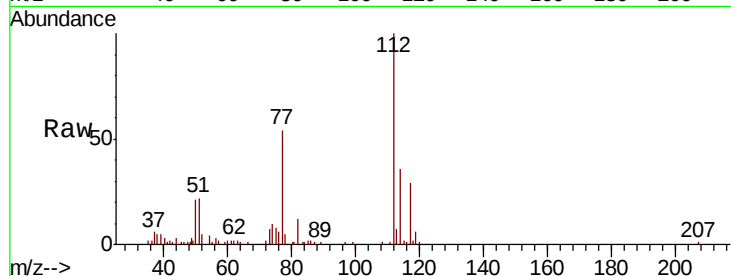
Tot Ion: 112 Resp: 14146

Ion Ratio Lower Upper

112 100

114 35.5 21.3 39.5

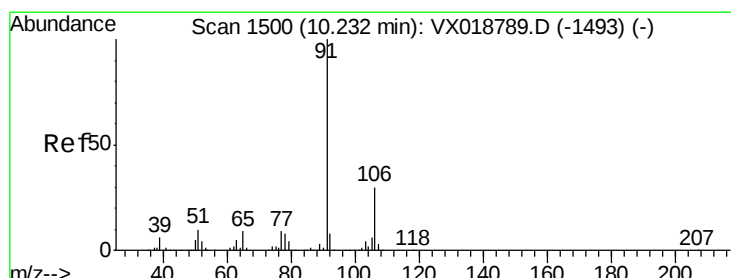
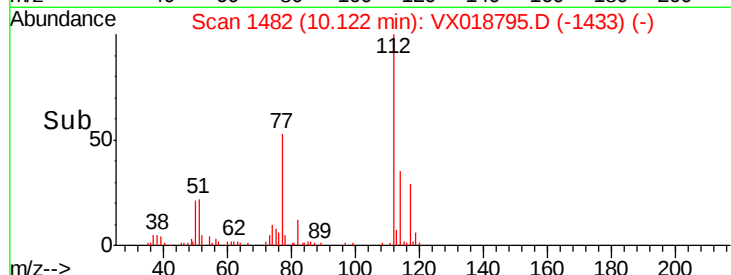
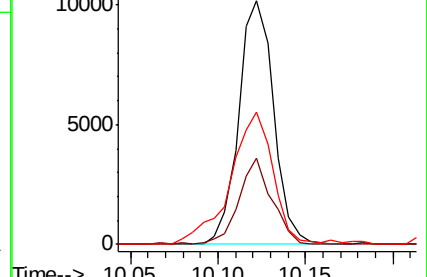
77 54.3 42.4 63.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#54

Ethylbenzene

Concen: 1.244 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX018795.D

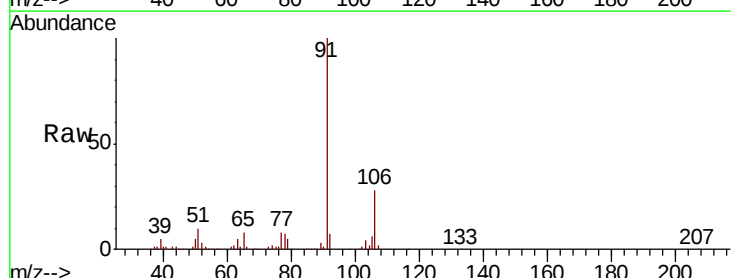
Acq: 06 Oct 2020 13:25

Tgt Ion: 91 Resp: 42901

Ion Ratio Lower Upper

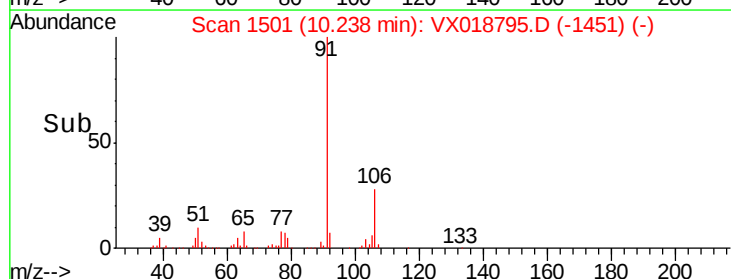
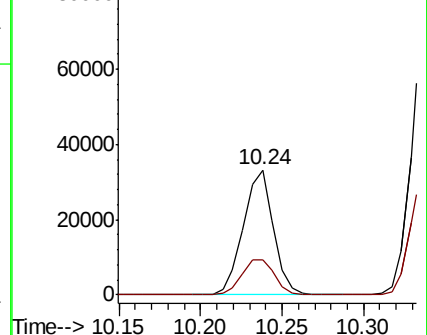
91 100

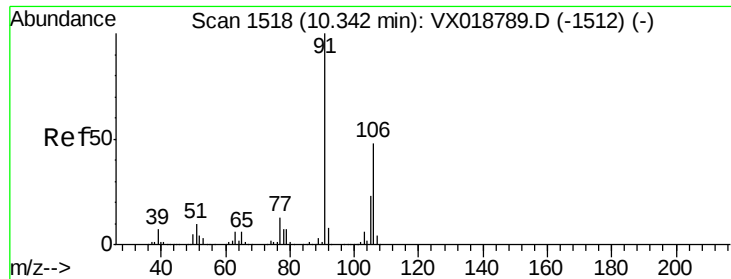
106 27.9 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 4.379 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

Instrument :

MSVOA_X

ClientSampleId :

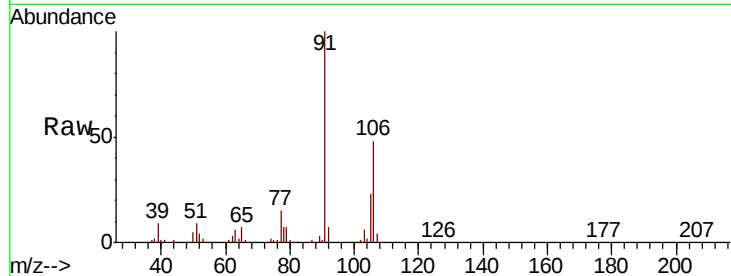
BG3Q9DL

Tot Ion:106 Resp: 58889

Ion Ratio Lower Upper

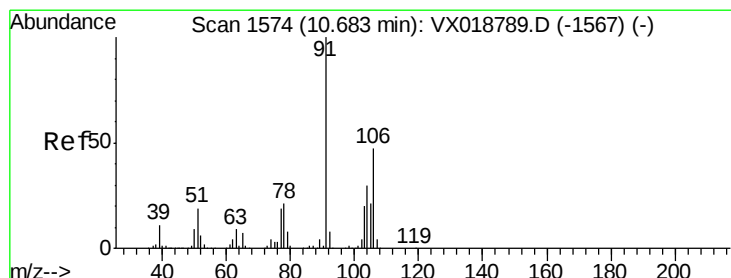
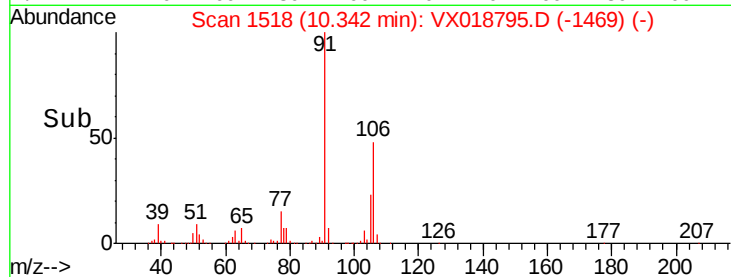
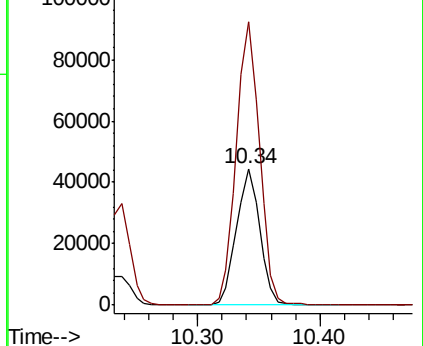
106 100

91 207.5 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 1.840 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX018795.D

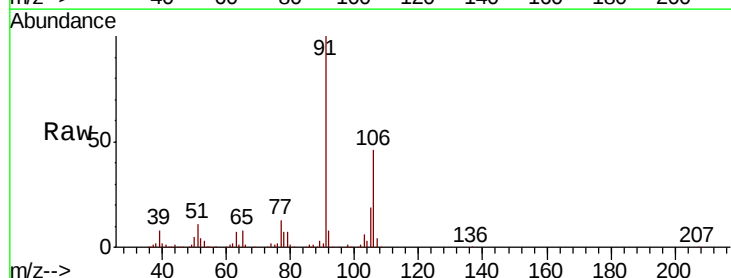
Acq: 06 Oct 2020 13:25

Tgt Ion:106 Resp: 22869

Ion Ratio Lower Upper

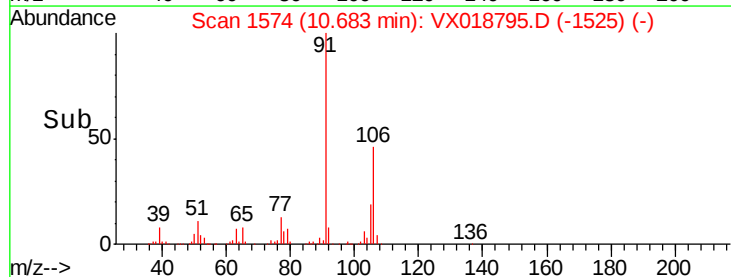
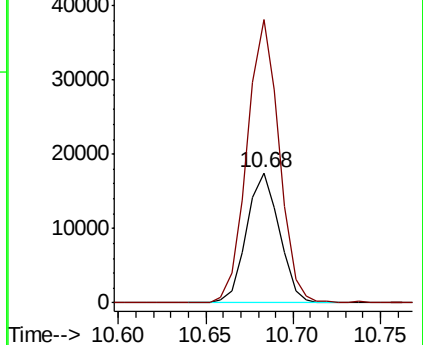
106 100

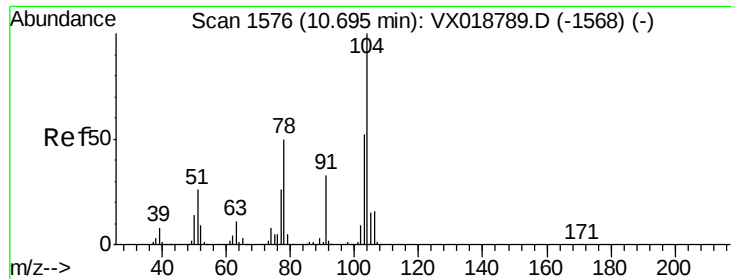
91 217.2 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#57

Stvrene

Concen: 0.069 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

Instrument :

MSVOA_X

ClientSampleId :

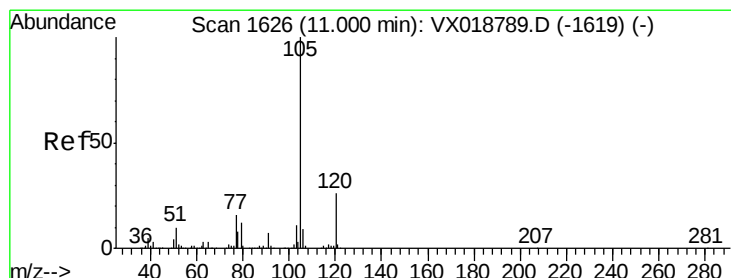
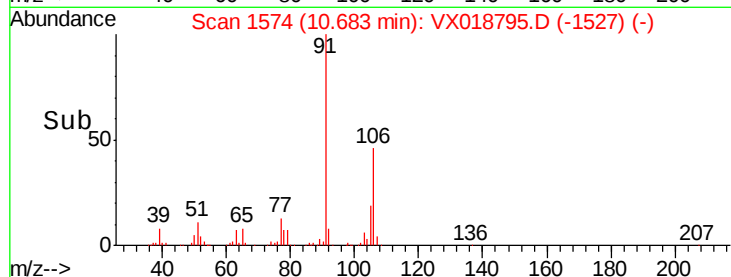
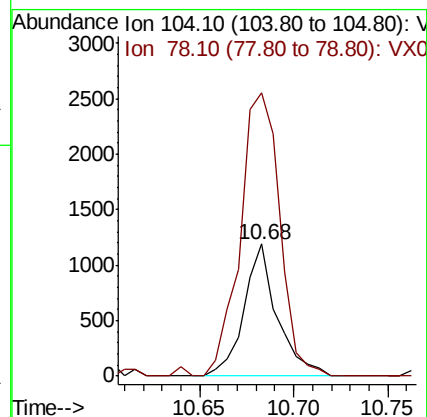
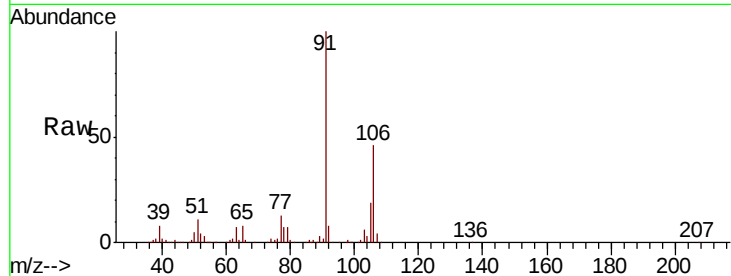
BG3Q9DL

Tot Ion:104 Resp: 1462

Ion Ratio Lower Upper

104 100

78 214.9 37.1 68.9#



#58

Isopropylbenzene

Concen: 0.474 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

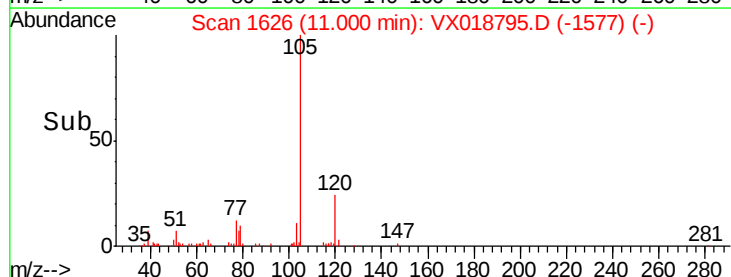
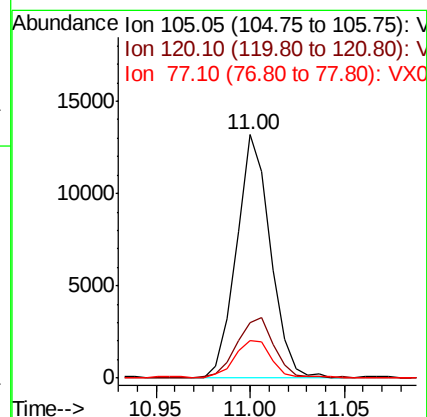
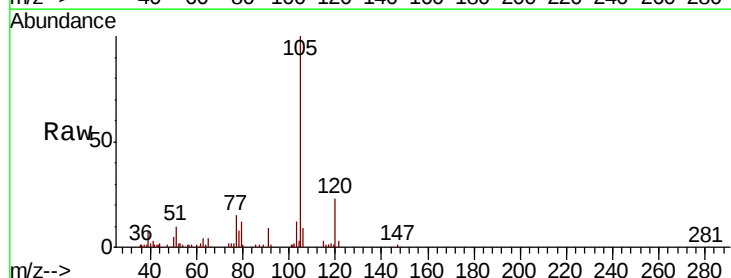
Tgt Ion:105 Resp: 16492

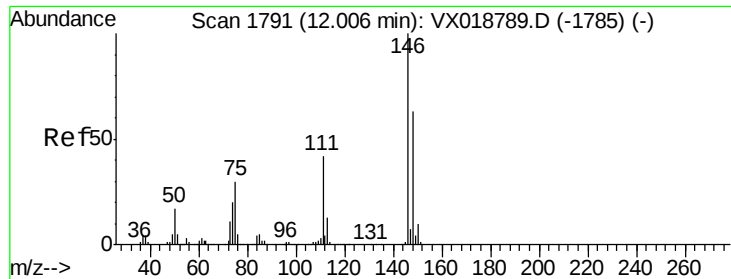
Ion Ratio Lower Upper

105 100

120 27.7 20.2 30.2

77 16.7 13.3 19.9

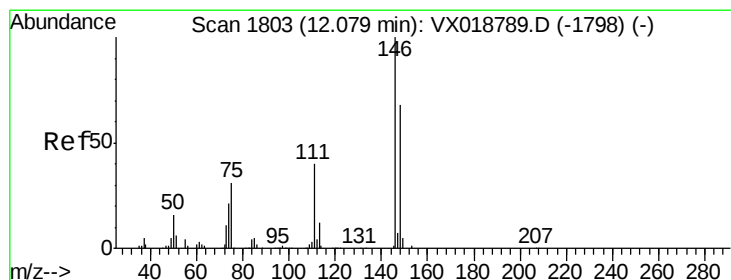
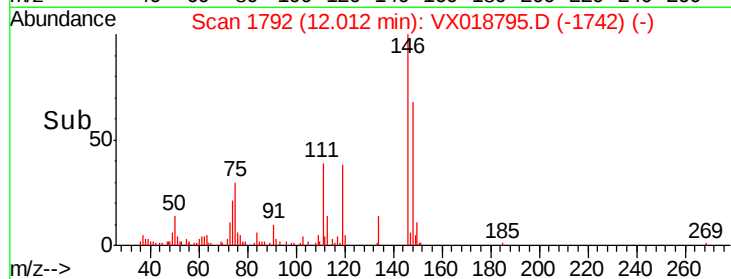
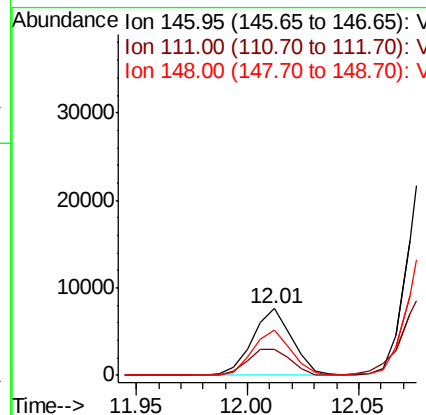
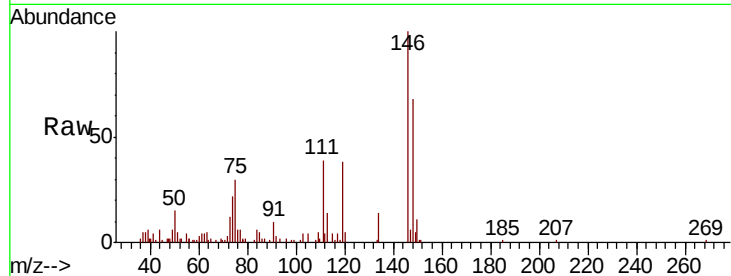




#63
 1,3-Dichlorobenzene
 Concen: 0.558 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. 0.01 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

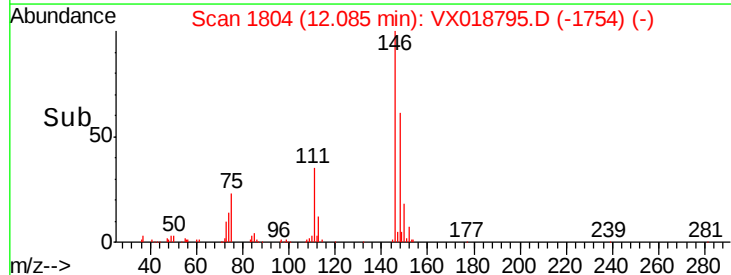
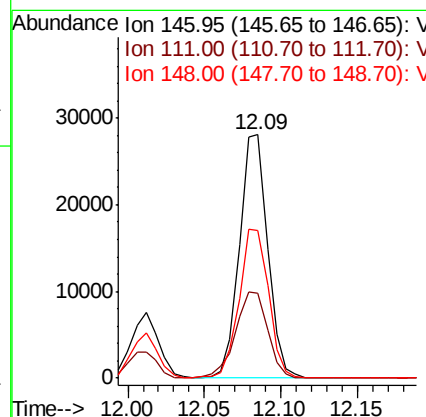
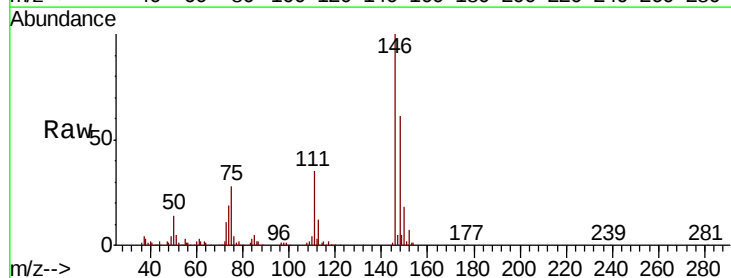
Instrument :
 MSVOA_X
 ClientSampleID :
 BG3Q9DL

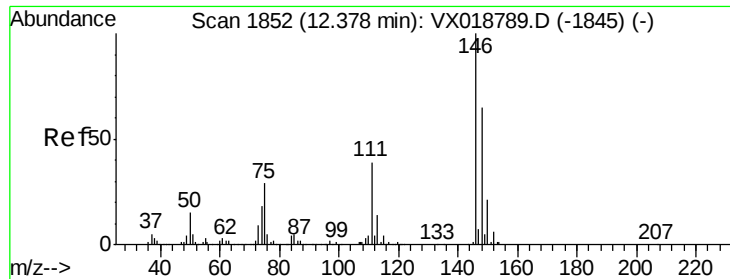
Tot Ion:146 Resp: 9578
 Ion Ratio Lower Upper
 146 100
 111 38.8 28.4 52.8
 148 68.5 45.9 85.3



#64
 1,4-Dichlorobenzene
 Concen: 2.106 ug/L
 RT: 12.09 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VX018795.D
 Acq: 06 Oct 2020 13:25

Tgt Ion:146 Resp: 36059
 Ion Ratio Lower Upper
 146 100
 111 35.0 28.6 53.2
 148 60.8 44.2 82.0





#66

1,2-Dichlorobenzene

Concen: 0.758 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

Instrument :

MSVOA_X

ClientSampleId :

BG3Q9DL

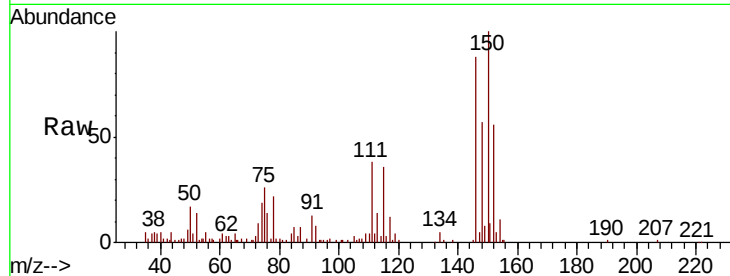
Tot Ion:146 Resp: 12153

Ion Ratio Lower Upper

146 100

111 42.5 31.7 47.5

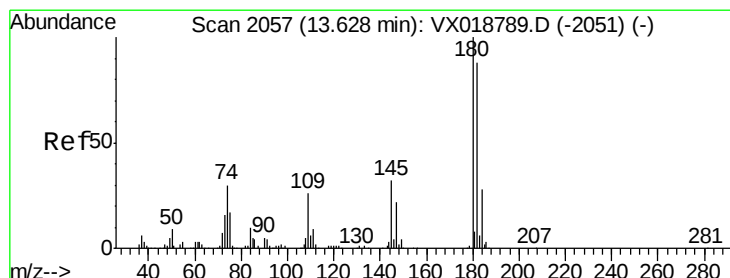
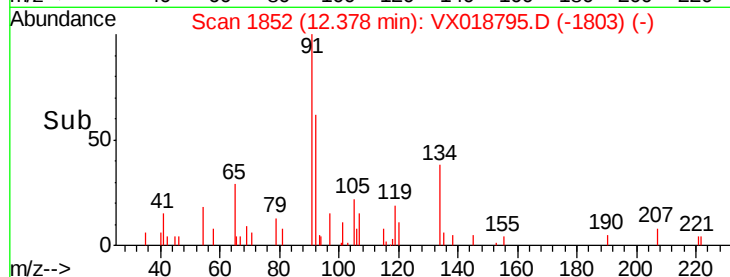
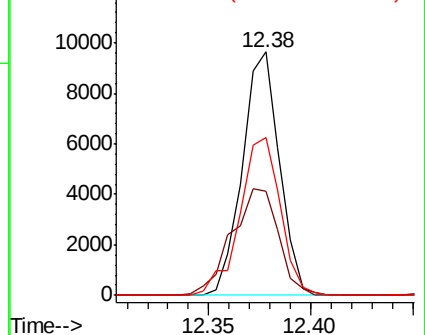
148 64.6 49.0 73.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

1,2,4-trichlorobenzene

Concen: 8.306 ug/L

RT: 13.63 min Scan# 2057

Delta R.T. -0.00 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

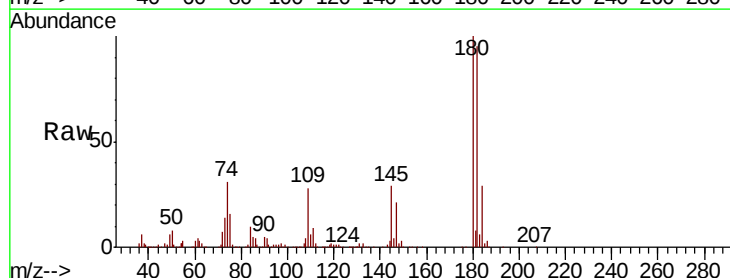
Tgt Ion:180 Resp: 91150

Ion Ratio Lower Upper

180 100

182 96.5 80.2 120.4

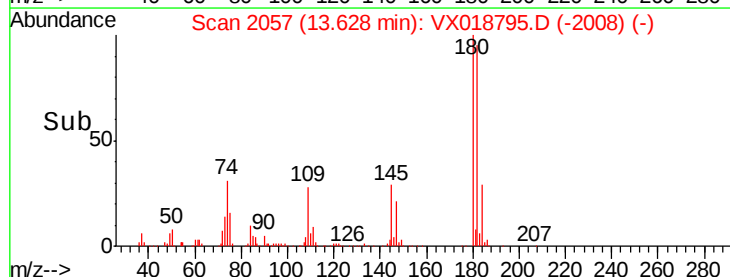
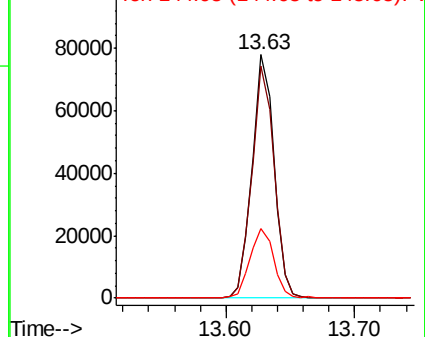
145 31.5 25.2 37.8

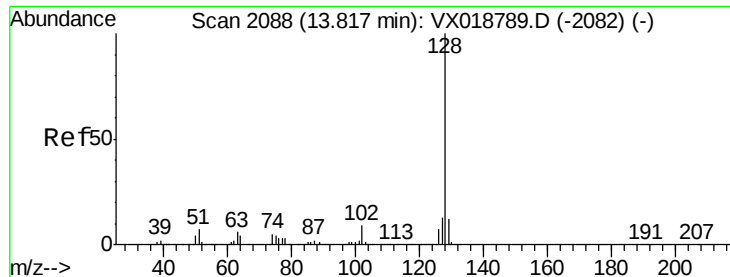


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#70

Naphthalene

Concen: 0.873 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

Instrument :

MSVOA_X

ClientSampleId :

BG3Q9DL

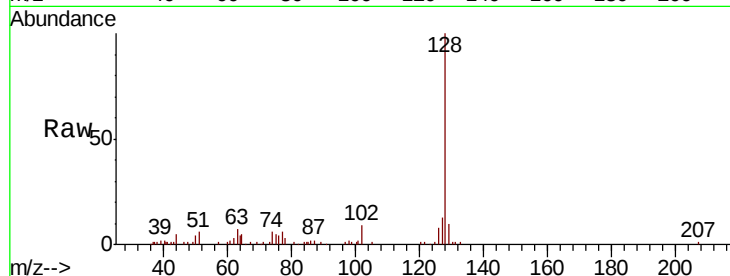
Tot Ion:128 Resp: 15655

Ion Ratio Lower Upper

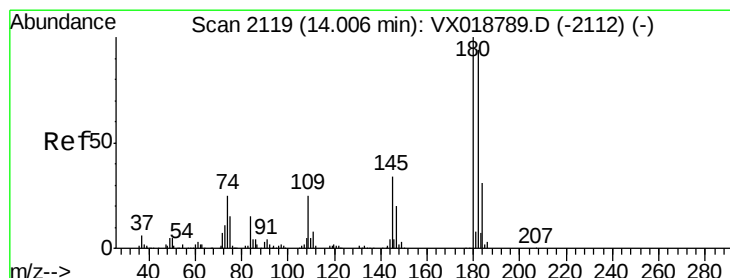
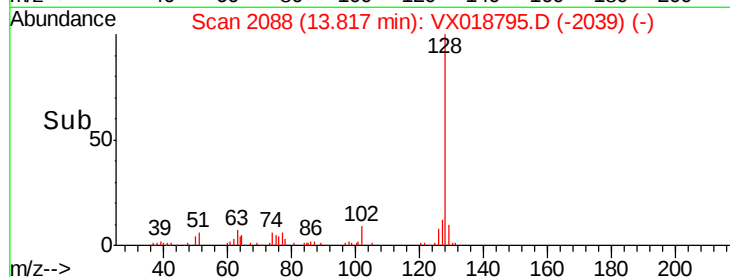
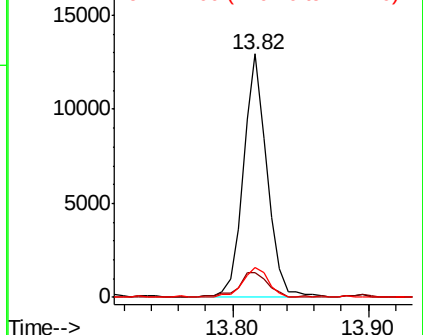
128 100

129 13.0 9.0 13.4

127 13.2 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#71

1,2,3-Trichlorobenzene

Concen: 3.296 ug/L

RT: 14.00 min Scan# 2118

Delta R.T. -0.01 min

Lab File: VX018795.D

Acq: 06 Oct 2020 13:25

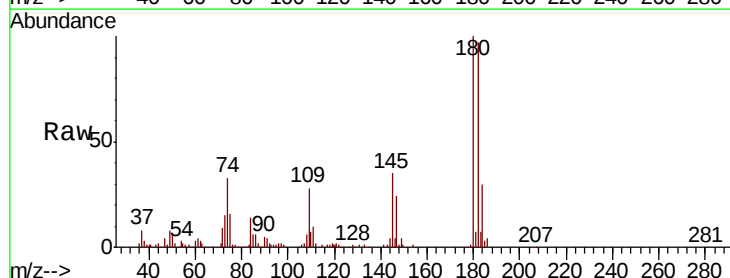
Tgt Ion:180 Resp: 32546

Ion Ratio Lower Upper

180 100

182 91.9 73.6 110.4

145 33.9 26.6 40.0



Abundance Ion 179.90 (179.60 to 180.60): V
Ion 181.90 (181.60 to 182.60): V
Ion 144.95 (144.65 to 145.65): V

