

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100520\
 Data File : VX018772.D
 Acq On : 05 Oct 2020 17:54
 Operator : JC/SP
 Sample : L4239-03DL 100X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N2DL

Quant Time: Oct 06 01:46:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 06 01:36:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	150152	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	143222	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	72179	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	41738	4.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.20%
7) Chloroethane-d5	1.70	69	35714	5.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.00%
11) 1,1-Dichloroethene-d2	2.34	63	72888	3.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	73.60%
20) 2-Butanone-d5	4.56	46	141338	61.43	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	122.86%
24) Chloroform-d	5.14	84	100946	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	6.03	65	58305	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
32) Benzene-d6	6.04	84	191434	5.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	107.60%
36) 1,2-Dichloropropane-d6	7.37	67	58101	5.65	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	113.00%
41) Toluene-d8	8.70	98	171991	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
45) trans-1,3-Dichloropropene-	8.99	79	25791	4.66	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.20%
48) 2-Hexanone-d5	9.43	63	114558	61.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	123.48%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	45863	5.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.60%
65) 1,2-Dichlorobenzene-d4	12.36	152	73602	5.53	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.39	62	3964	0.489	ug/L #	81
12) 1,1-Dichloroethene	2.36	96	3918	0.524	ug/L #	1
15) Methyl Acetate	2.82	43	3723	1.206	ug/L #	50
16) Methylene chloride	2.83	84	3974	0.438	ug/L	93
18) trans-1,2-Dichloroethene	3.14	96	1726	0.216	ug/L #	66
19) 1,1-Dichloroethane	3.67	63	45238	3.177	ug/L	99
22) cis-1,2-Dichloroethene	4.56	96	179880	21.779	ug/L #	93
29) 1,1,1-Trichloroethane	5.46	97	299108	17.654	ug/L	99
30) Cyclohexane	5.55	56	15513	1.320	ug/L	96
35) Methylcyclohexane	7.37	83	15904	1.267	ug/L #	19
37) 1,2-Dichloropropane	7.37	63	7074	0.942	ug/L #	85
39) cis-1,3-Dichloropropene	8.37	75	2146	0.179	ug/L	89
42) Toluene	8.76	91	2059424	62.752	ug/L	97
43) 1,3,5-Trimethylbenzene	11.49	105	201734	6.495	ug/L	97
44) 1,2,4-Trimethylbenzene	11.79	105	732113	23.222	ug/L	95
50) 2-Hexanone	9.43	43	13965	4.417	ug/L #	70
53) Chlorobenzene	10.12	112	6389	0.285	ug/L	92

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100520\
Data File : VX018772.D
Acq On : 05 Oct 2020 17:54
Operator : JC/SP
Sample : L4239-03DL 100X
Misc : 25.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BG3N2DL

Quant Time: Oct 06 01:46:38 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 06 01:36:50 2020
Response via : Initial Calibration

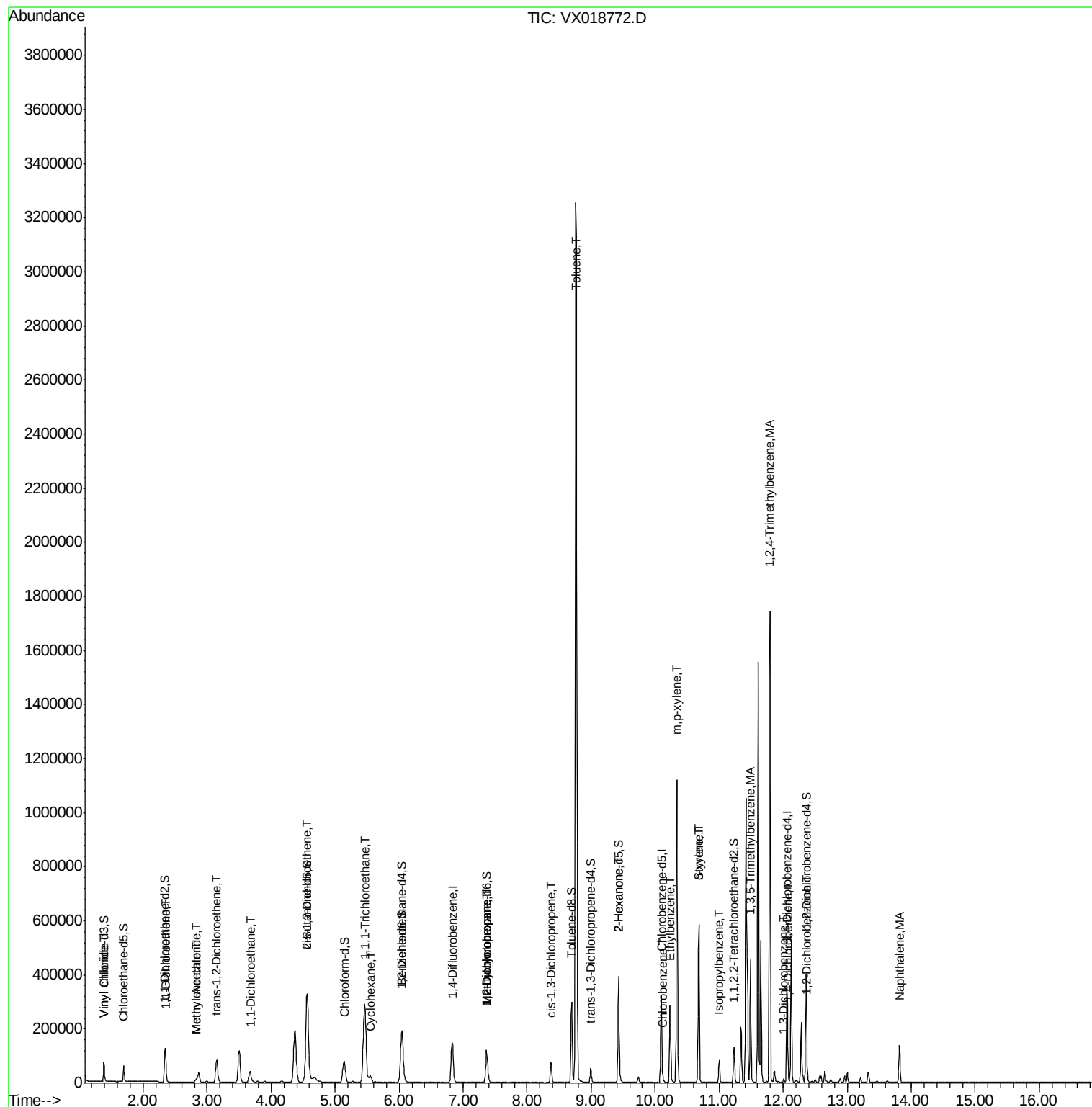
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.23	91	163762	4.451	ug/L	96
55) m,p-xylene	10.34	106	257169	17.921	ug/L	100
56) o-xylene	10.68	106	123076	9.281	ug/L	97
57) Styrene	10.68	104	6832	0.302	ug/L #	1
58) Isopropylbenzene	11.00	105	42635	1.148	ug/L	98
63) 1,3-Dichlorobenzene	12.01	146	1437	0.082	ug/L	87
64) 1,4-Dichlorobenzene	12.08	146	1852	0.106	ug/L	92
66) 1,2-Dichlorobenzene	12.38	146	8176	0.499	ug/L #	82
70) Naphthalene	13.82	128	82611	4.508	ug/L	99

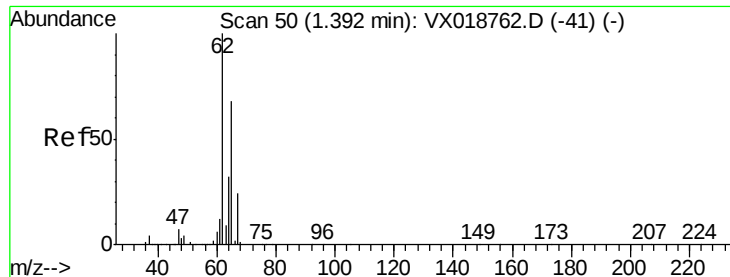
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX100520\
Data File : VX018772.D
Acq On : 05 Oct 2020 17:54
Operator : JC/SP
Sample : L4239-03DL 100X
Misc : 25.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BG3N2DL

Quant Time: Oct 06 01:46:38 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 06 01:36:50 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.489 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

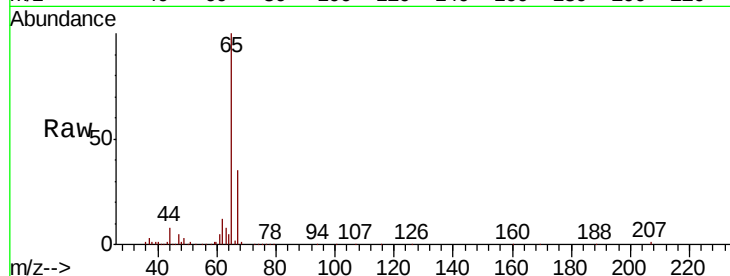
BG3N2DL

Tot Ion: 62 Resp: 3964

Ion Ratio Lower Upper

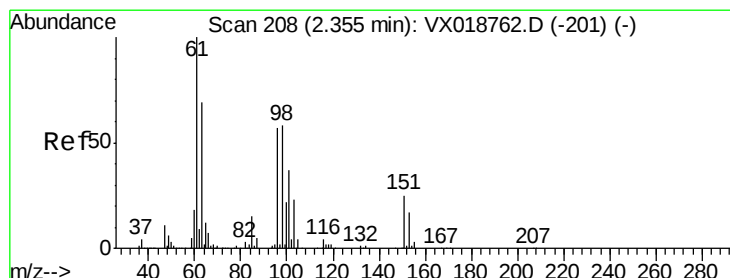
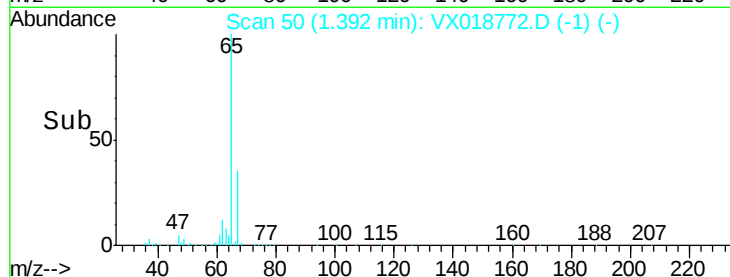
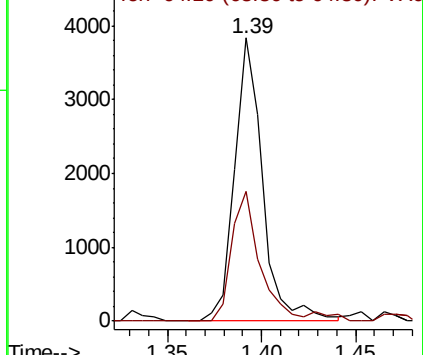
62 100

64 45.8 24.3 45.1#



Abundance Ion 62.00 (61.70 to 62.70): VX0

Ion 64.10 (63.80 to 64.80): VX0



#12

1,1-Dichloroethene

Concen: 0.524 ug/L

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

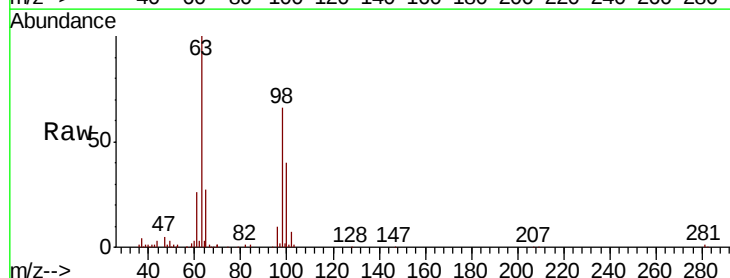
Tgt Ion: 96 Resp: 3918

Ion Ratio Lower Upper

96 100

61 251.2 133.2 247.4#

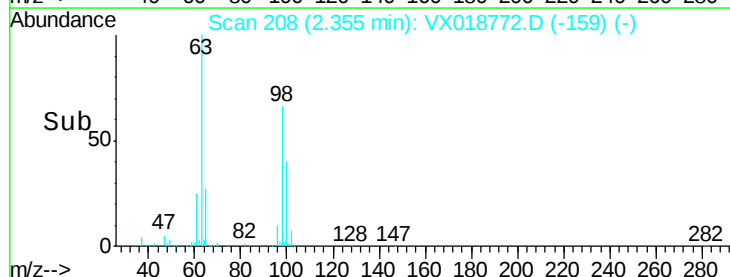
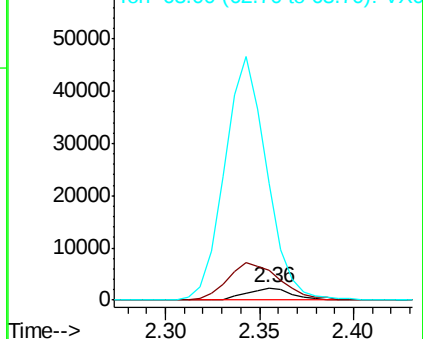
63 975.8 115.1 213.7#

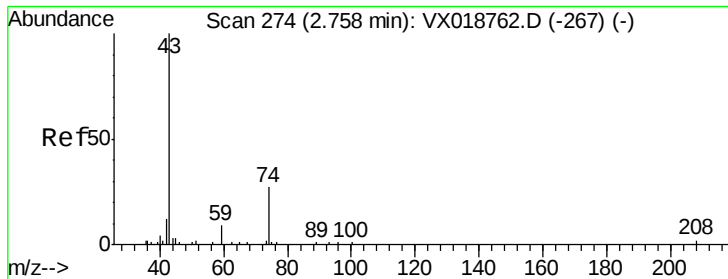


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 63.00 (62.70 to 63.70): VX0





#15

Methyl Acetate

Concen: 1.206 ug/L

RT: 2.82 min Scan# 285

Delta R.T. 0.07 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampled :

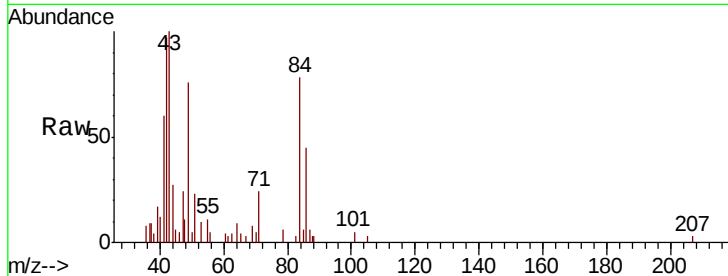
BG3N2DL

Tot Ion: 43 Resp: 3723

Ion Ratio Lower Upper

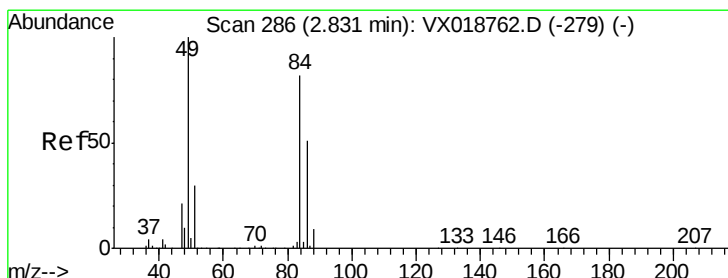
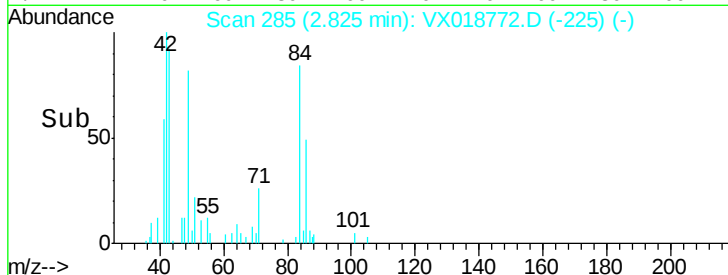
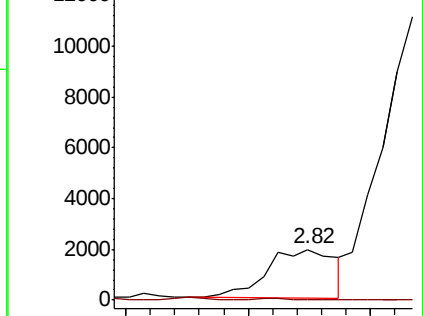
43 100

74 1.2 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: 0.438 ug/L

RT: 2.83 min Scan# 286

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

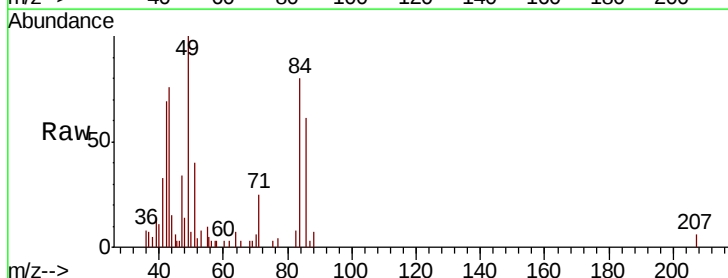
Tgt Ion: 84 Resp: 3974

Ion Ratio Lower Upper

84 100

86 76.2 45.6 84.8

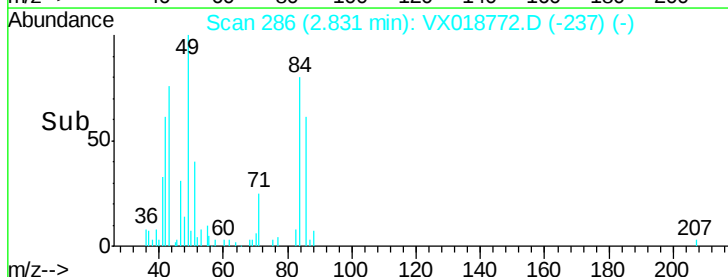
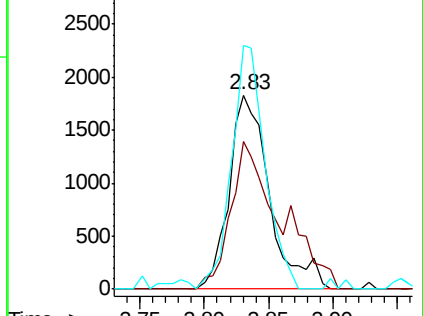
49 125.6 85.8 159.3

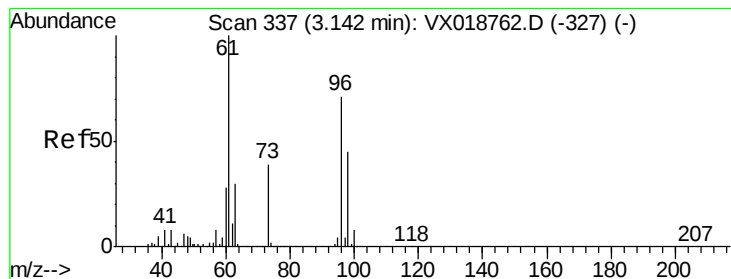


Abundance Ion 84.05 (83.75 to 84.75): VX0

Ion 86.00 (85.70 to 86.70): VX0

Ion 49.10 (48.80 to 49.80): VX0





#18

trans-1,2-Dichloroethene

Concen: 0.216 ug/L

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

BG3N2DL

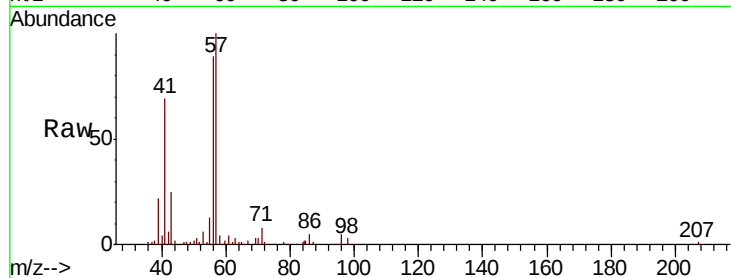
Tot Ion: 96 Resp: 1726

Ion Ratio Lower Upper

96 100

61 82.6 97.6 181.4#

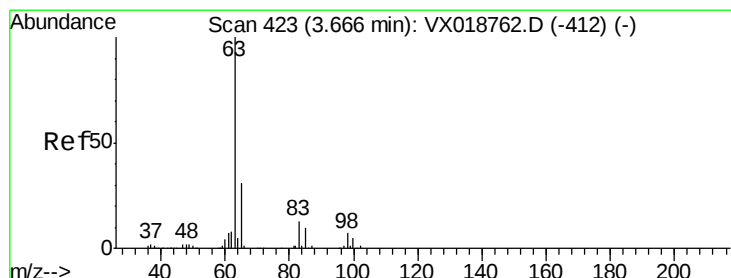
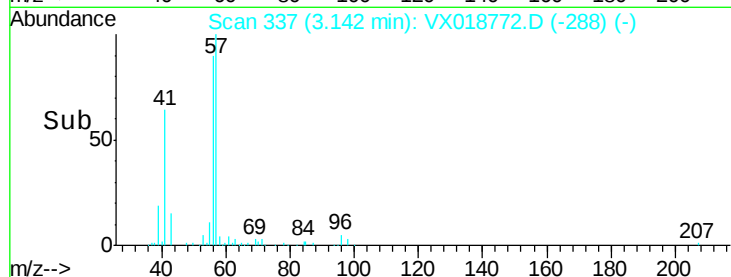
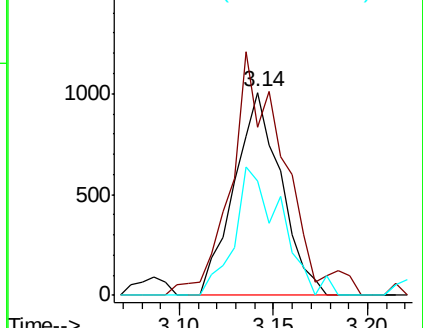
98 56.6 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 97.95 (97.65 to 98.65): VX0



#19

1,1-Dichloroethane

Concen: 3.177 ug/L

RT: 3.67 min Scan# 423

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

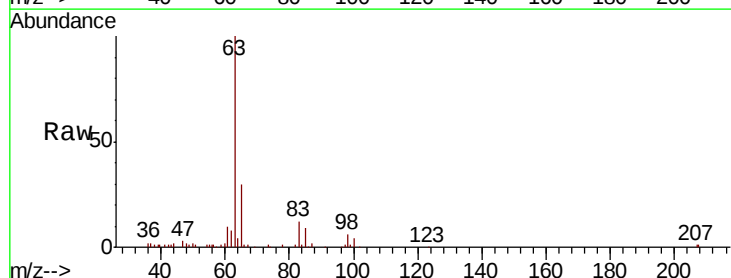
Tgt Ion: 63 Resp: 45238

Ion Ratio Lower Upper

63 100

65 30.4 21.6 40.2

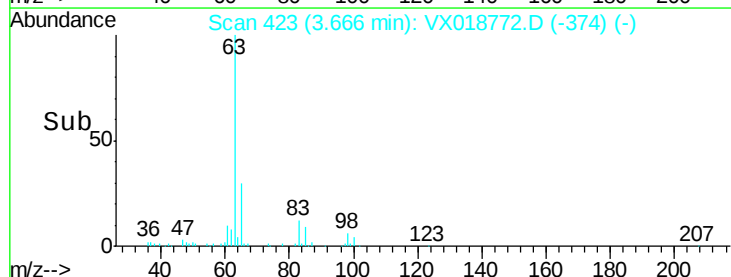
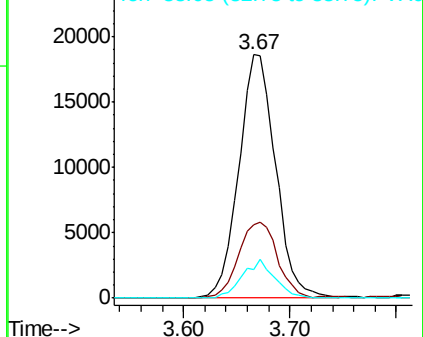
83 12.0 8.7 16.1

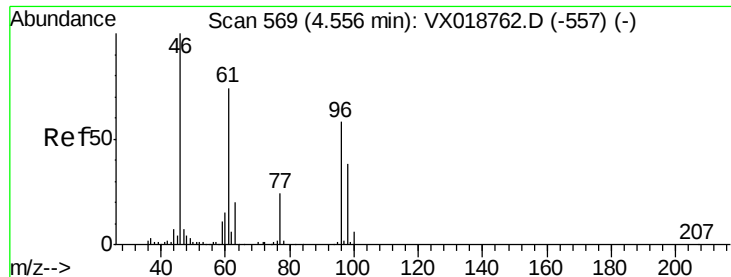


Abundance Ion 63.10 (62.80 to 63.80): VX0

Ion 65.10 (64.80 to 65.80): VX0

Ion 83.05 (82.75 to 83.75): VX0



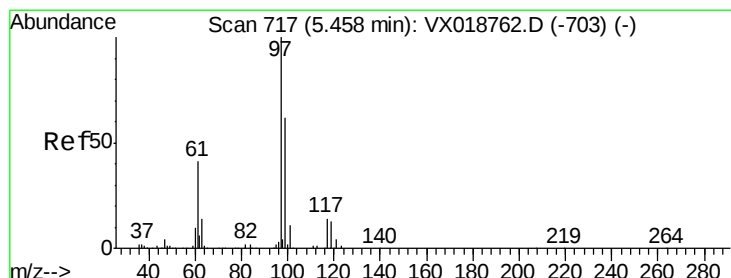
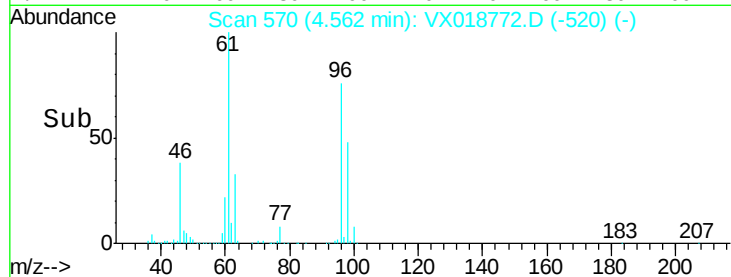
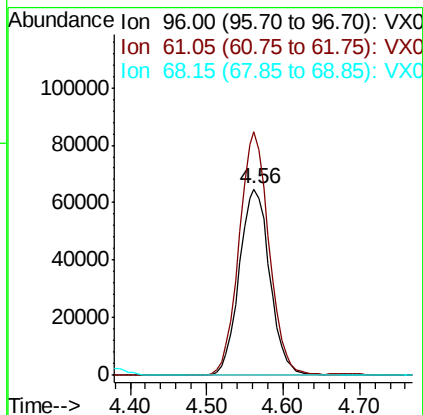
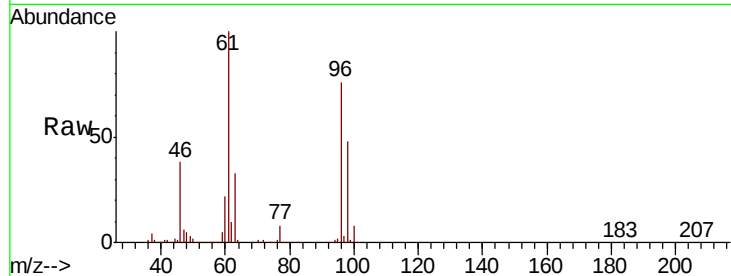


#22

cis-1,2-Dichloroethene
 Concen: 21.779 ug/L
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N2DL

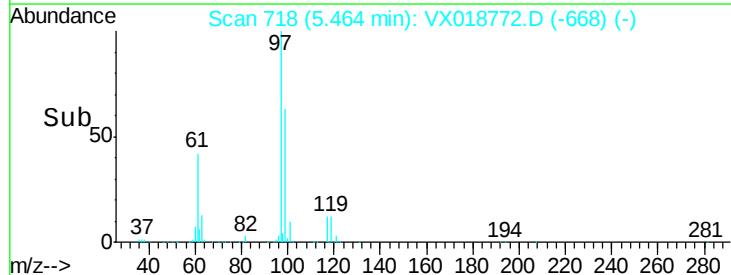
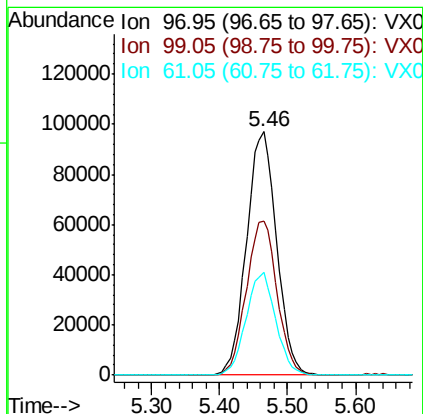
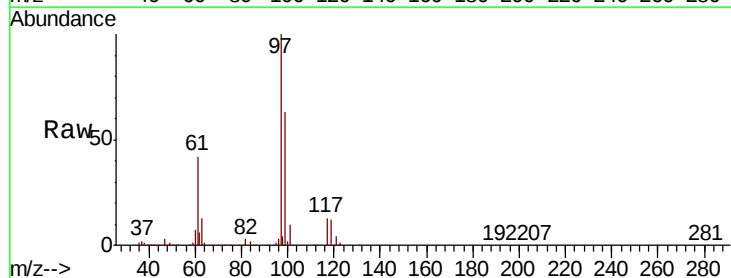
Tot Ion	Ratio	Lower	Upper
96	100		
61	130.8	86.2	160.0
68	0.2	0.3	0.7#

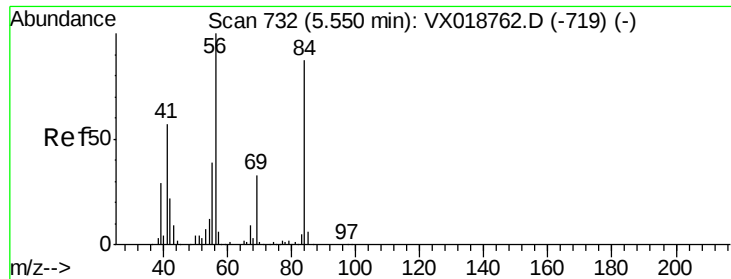


#29

1,1,1-Trichloroethane
 Concen: 17.654 ug/L
 RT: 5.46 min Scan# 718
 Delta R.T. 0.01 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.3	76.9
61	41.4	33.3	49.9

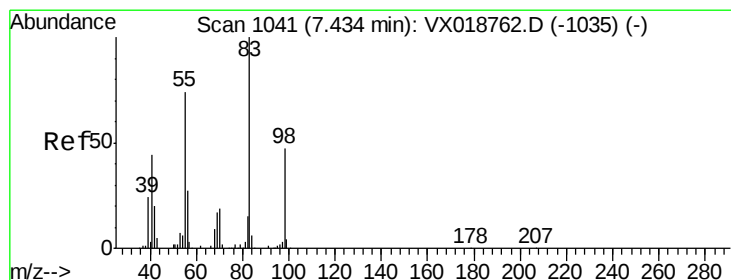
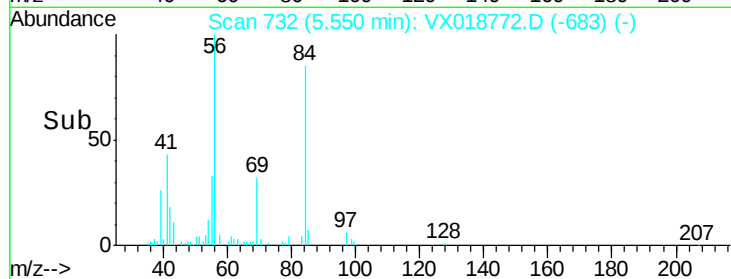
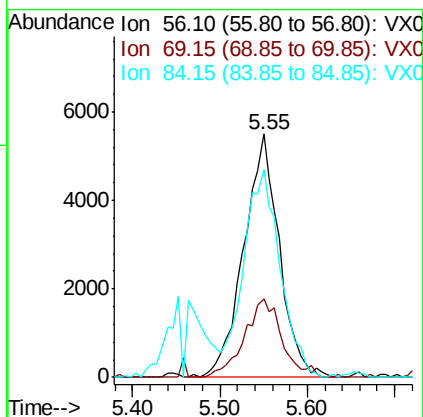
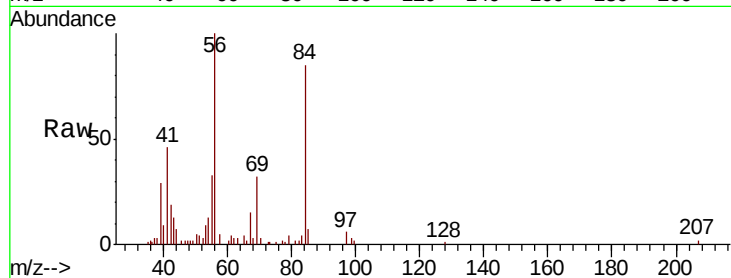




#30
Cyclohexane
Concen: 1.320 ug/L
RT: 5.55 min Scan# 732
Delta R.T. -0.00 min
Lab File: VX018772.D
Acq: 05 Oct 2020 17:54

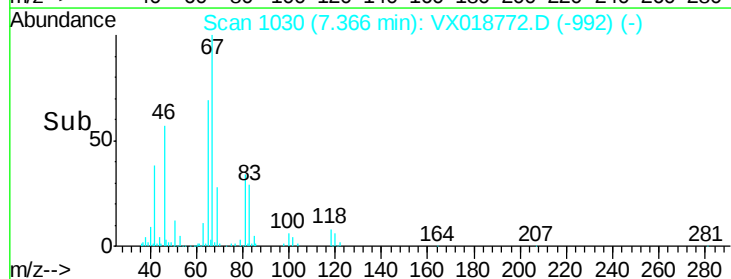
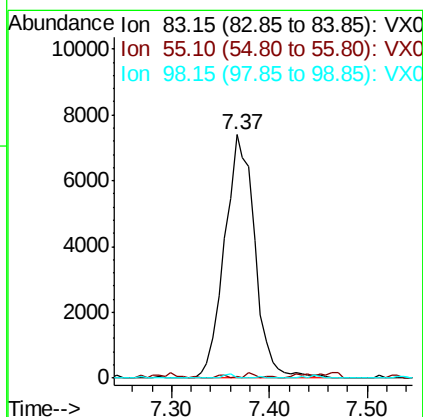
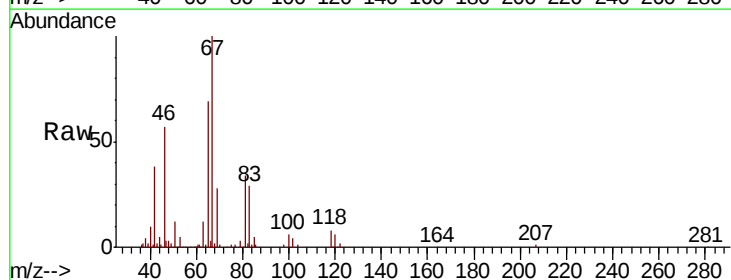
Instrument :
MSVOA_X
ClientSampleId :
BG3N2DL

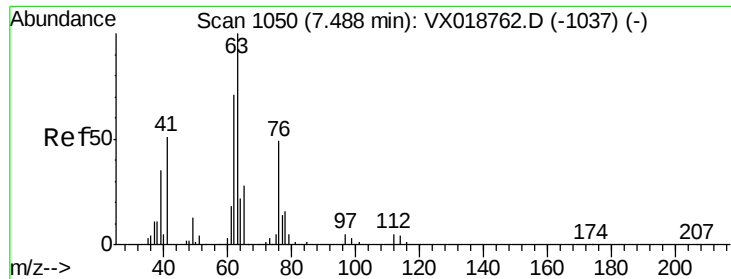
Tot Ion: 56 Resp: 15513
Ion Ratio Lower Upper
56 100
69 34.0 26.0 39.0
84 88.0 73.8 110.6



#35
Methylcyclohexane
Concen: 1.267 ug/L
RT: 7.37 min Scan# 1030
Delta R.T. -0.07 min
Lab File: VX018772.D
Acq: 05 Oct 2020 17:54

Tgt Ion: 83 Resp: 15904
Ion Ratio Lower Upper
83 100
55 0.4 60.3 90.5#
98 0.5 39.4 59.0#

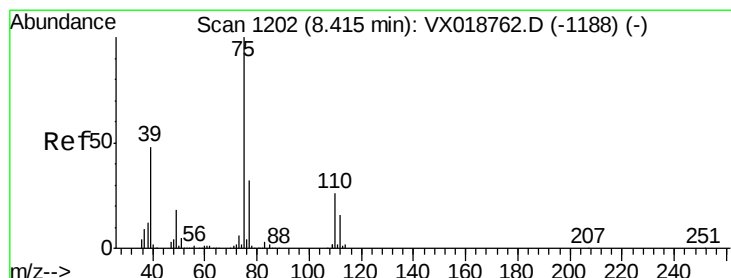
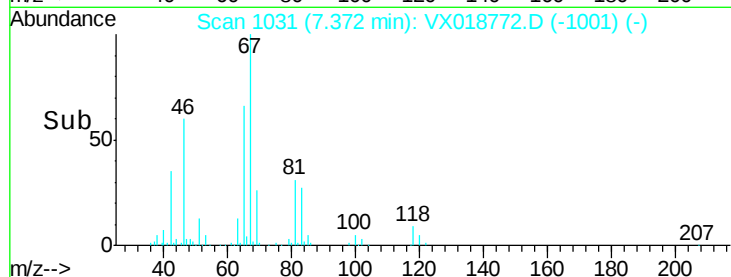
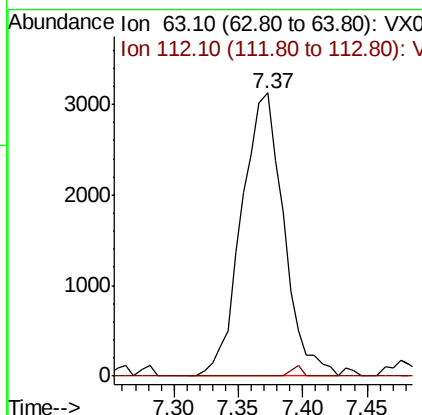
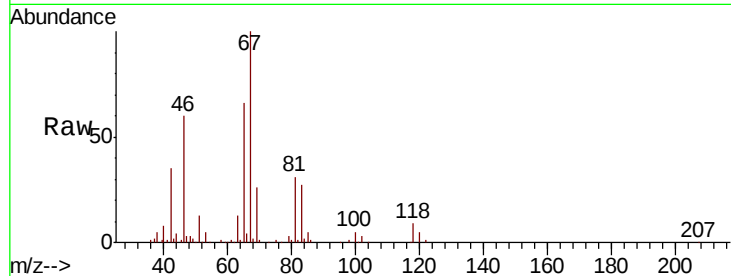




#37
 1,2-Dichloropropane
 Concen: 0.942 ug/L
 RT: 7.37 min Scan# 1031
 Delta R.T. -0.12 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

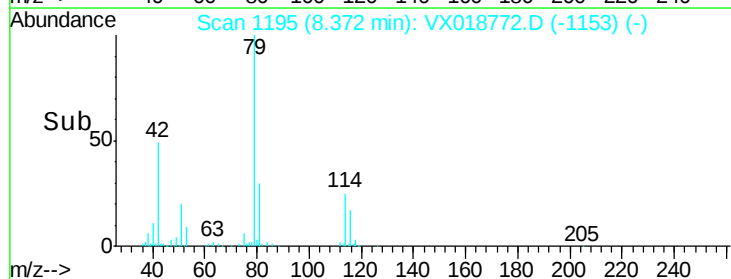
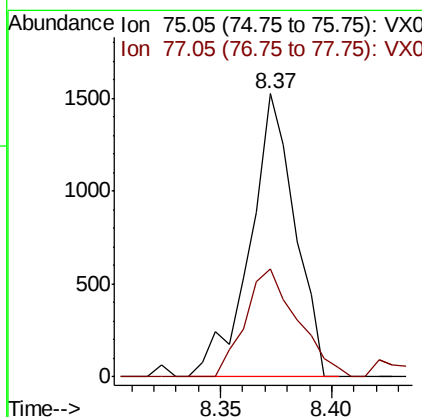
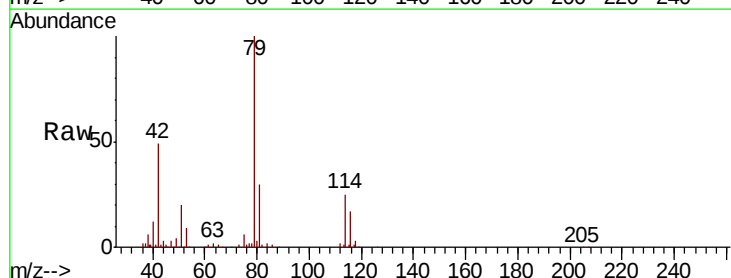
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N2DL

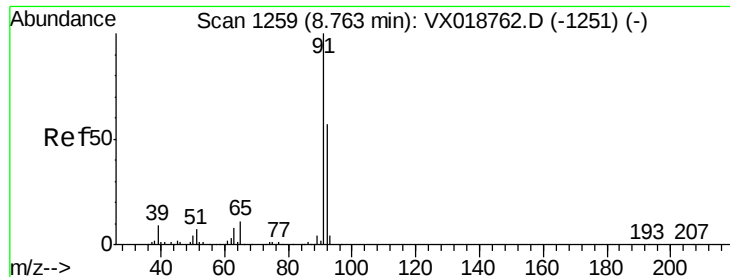
Tot Ion: 63 Resp: 7074
 Ion Ratio Lower Upper
 63 100
 112 0.9 4.7 7.1#



#39
 cis-1,3-Dichloropropene
 Concen: 0.179 ug/L
 RT: 8.37 min Scan# 1195
 Delta R.T. -0.04 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

Tgt Ion: 75 Resp: 2146
 Ion Ratio Lower Upper
 75 100
 77 38.0 22.5 41.7





#42

Toluene

Concen: 62.752 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

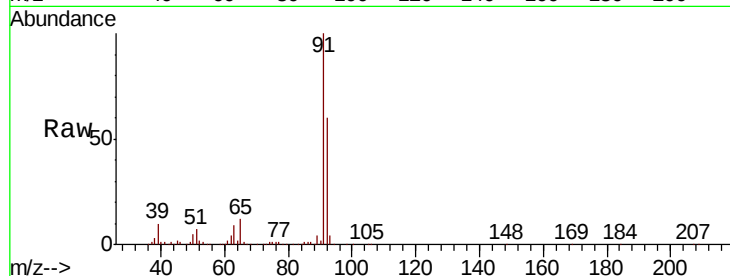
BG3N2DL

Tot Ion: 91 Resp: 2059424

Ion Ratio Lower Upper

91 100

92 59.8 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0

8.76

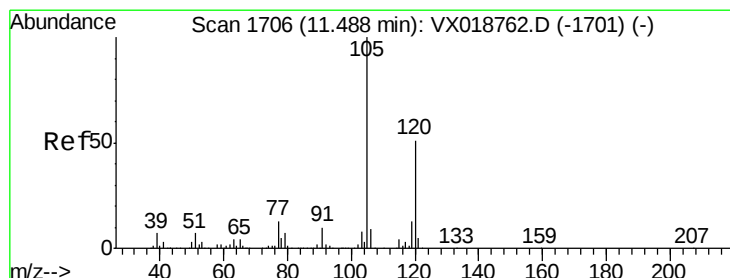
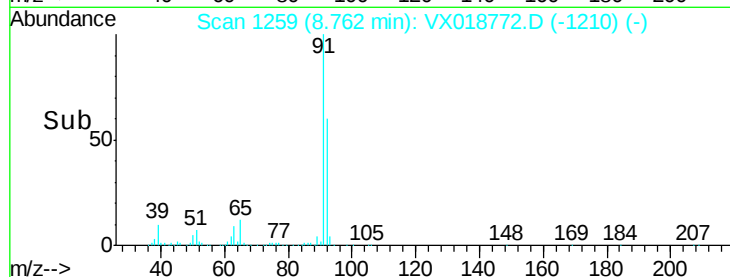
1500000

1000000

500000

0

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 6.495 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX018772.D

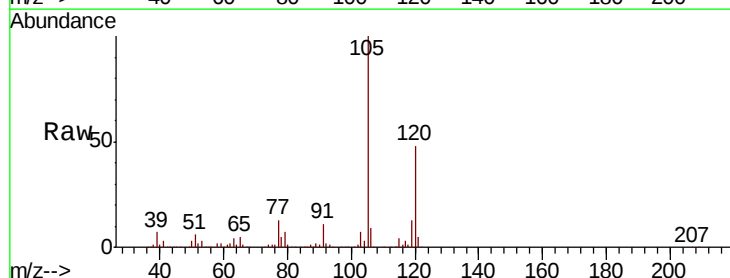
Acq: 05 Oct 2020 17:54

Tgt Ion:105 Resp: 201734

Ion Ratio Lower Upper

105 100

120 49.2 37.7 56.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

500000

400000

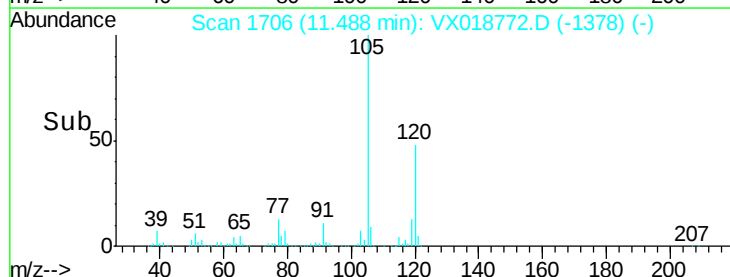
300000

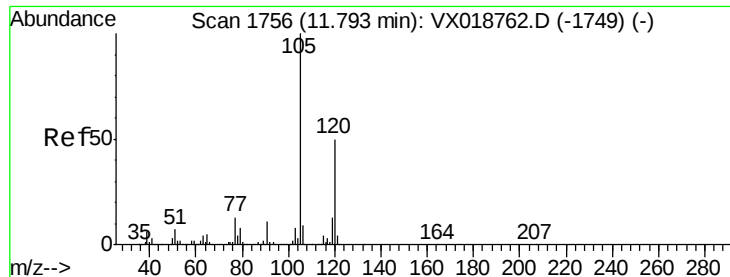
200000

100000

0

Time-->

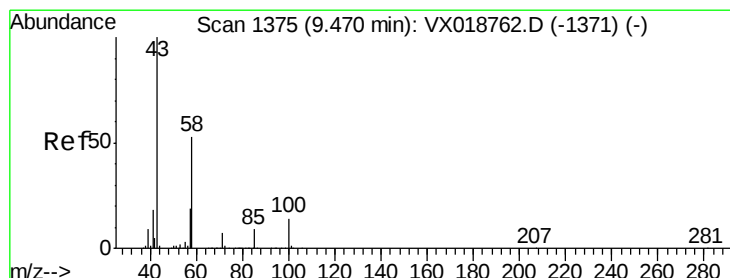
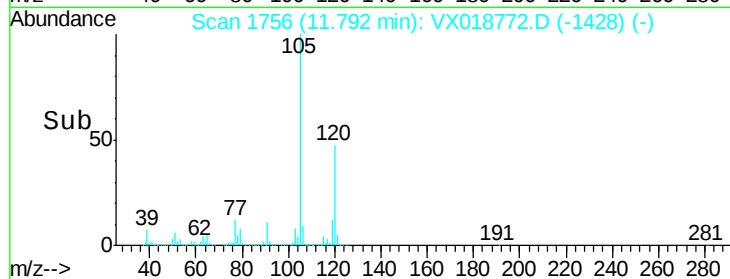
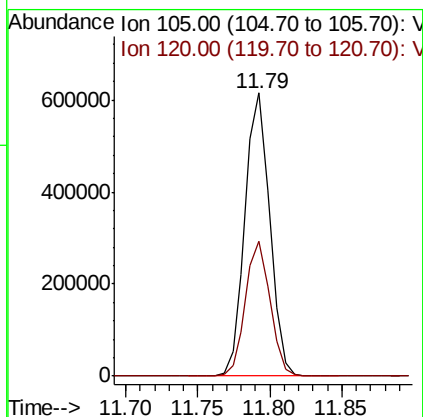
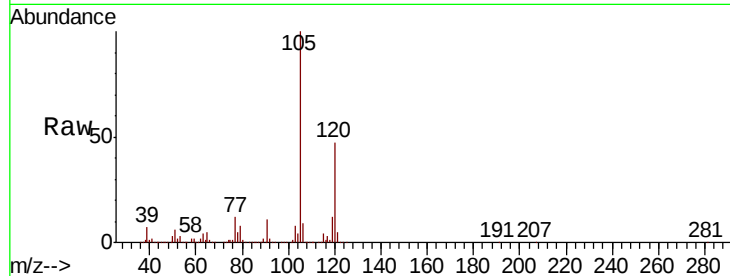




#44
 1,2,4-Trimethylbenzene
 Concen: 23.222 ug/L
 RT: 11.79 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

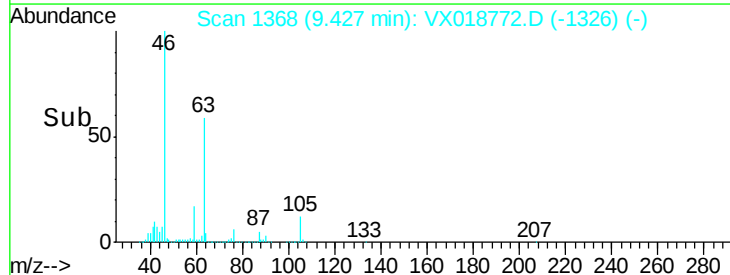
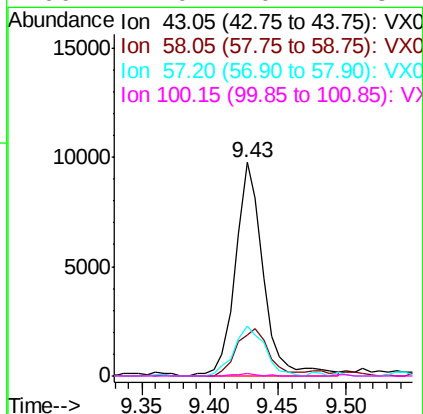
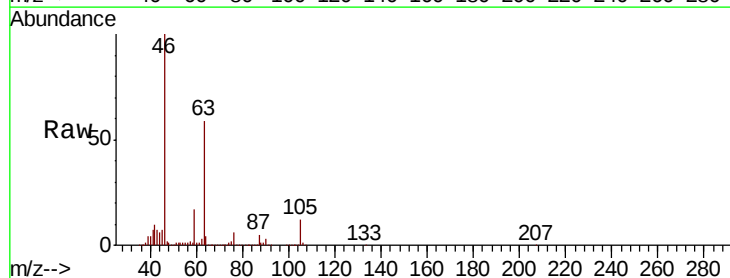
Instrument :
 MSVOA_X
 ClientSampleID :
 BG3N2DL

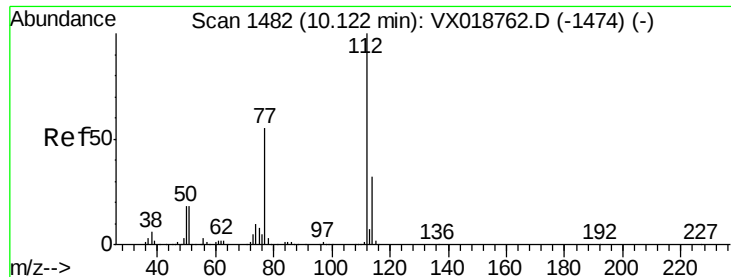
Tot Ion:105 Resp: 732113
 Ion Ratio Lower Upper
 105 100
 120 47.3 35.1 52.7



#50
 2-Hexanone
 Concen: 4.417 ug/L
 RT: 9.43 min Scan# 1368
 Delta R.T. -0.04 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

Tgt Ion: 43 Resp: 13965
 Ion Ratio Lower Upper
 43 100
 58 25.3 41.0 61.4#
 57 25.8 15.9 23.9#
 100 1.0 10.1 15.1#





#53

Chlorobenzene

Concen: 0.285 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

BG3N2DL

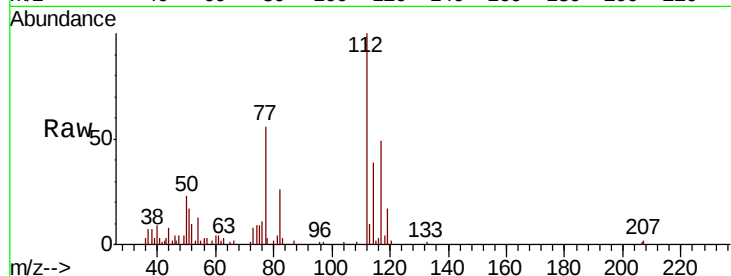
Tot Ion: 112 Resp: 6389

Ion Ratio Lower Upper

112 100

114 39.5 21.3 39.5

77 55.5 42.4 63.6

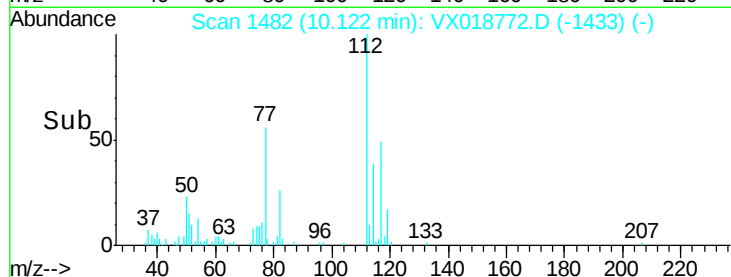


Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V

Time-->



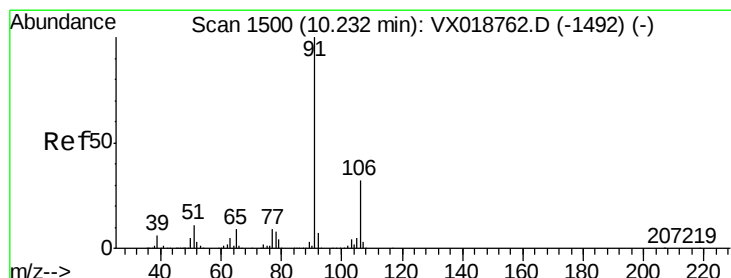
Abundance

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

Time-->



#54

Ethylbenzene

Concen: 4.451 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX018772.D

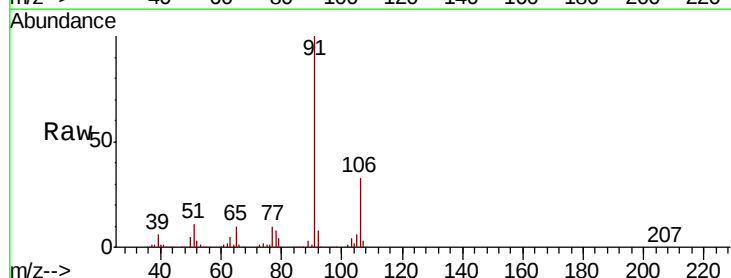
Acq: 05 Oct 2020 17:54

Tgt Ion: 91 Resp: 163762

Ion Ratio Lower Upper

91 100

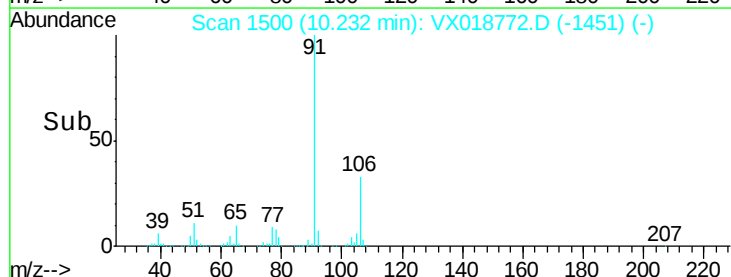
106 32.9 21.5 39.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V

Time-->

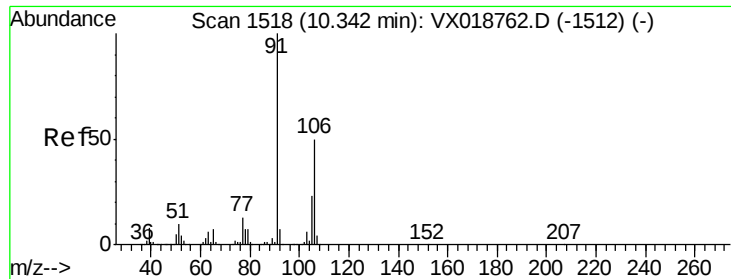


Abundance

Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V

Time-->



#55

m,p-xylene

Concen: 17.921 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampled :

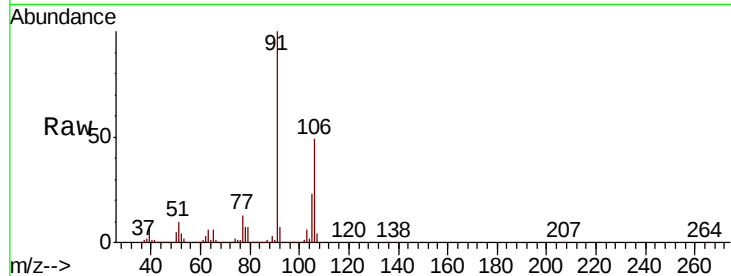
BG3N2DL

Tot Ion:106 Resp: 257169

Ion Ratio Lower Upper

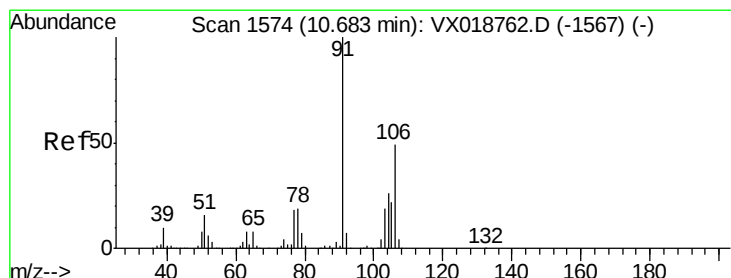
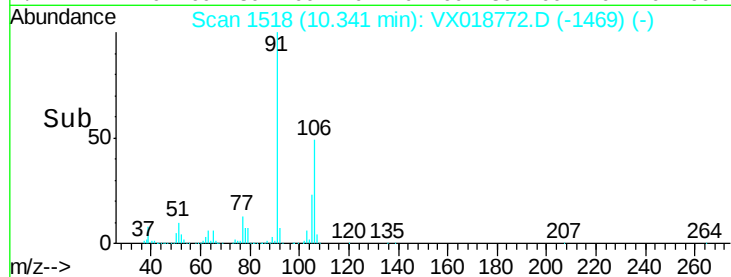
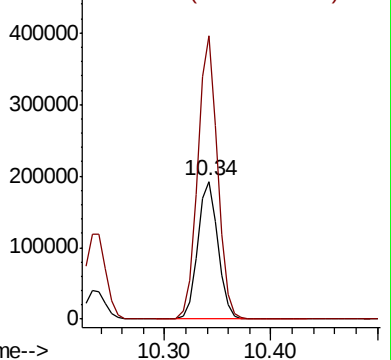
106 100

91 205.5 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 9.281 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX018772.D

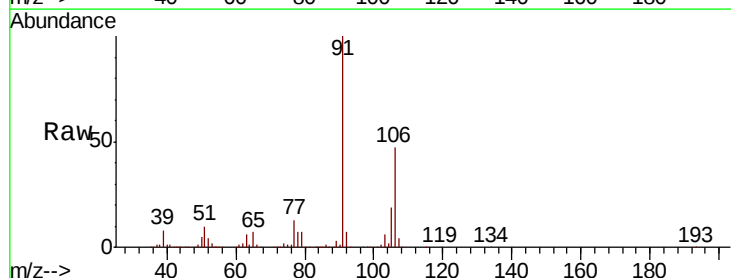
Acq: 05 Oct 2020 17:54

Tgt Ion:106 Resp: 123076

Ion Ratio Lower Upper

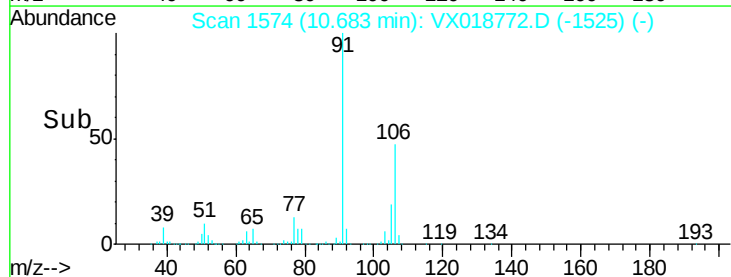
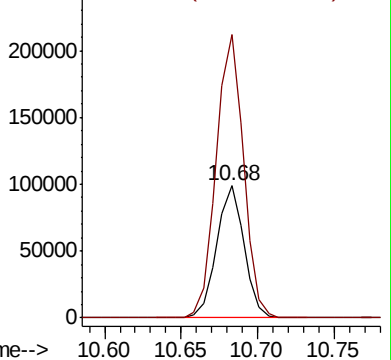
106 100

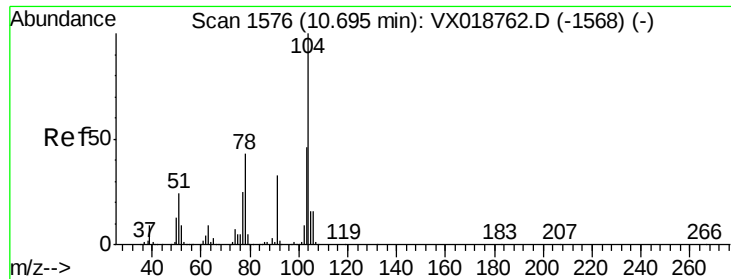
91 214.3 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#57

Stvrene

Concen: 0.302 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

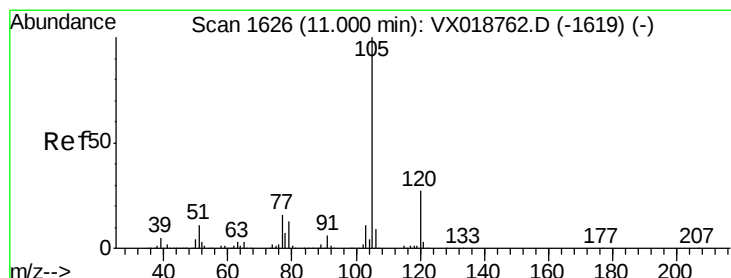
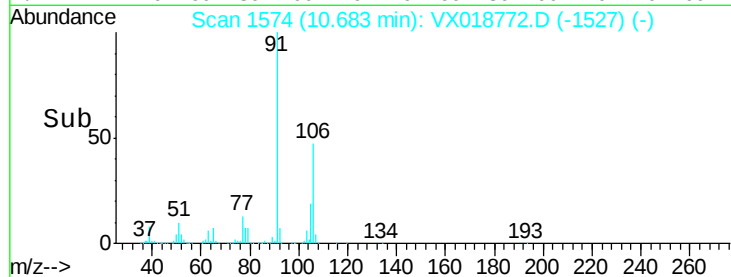
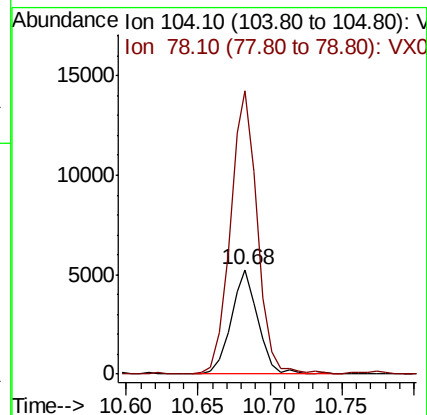
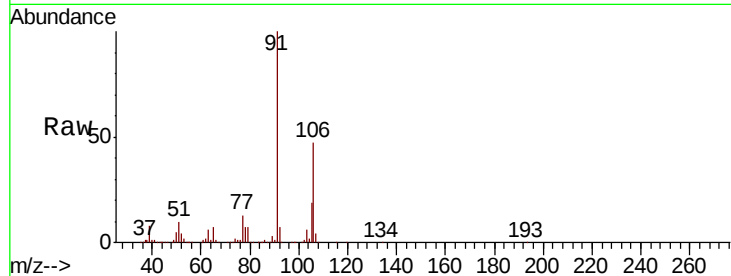
BG3N2DL

Tot Ion:104 Resp: 6832

Ion Ratio Lower Upper

104 100

78 271.1 37.1 68.9#



#58

Isopropylbenzene

Concen: 1.148 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

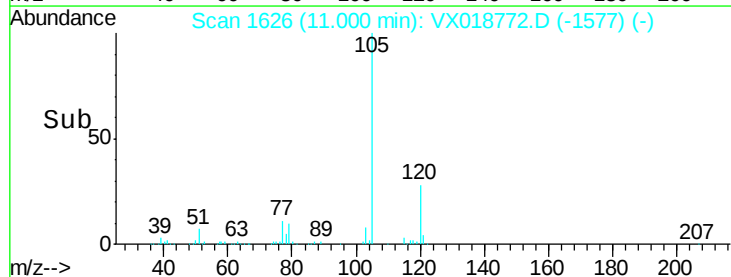
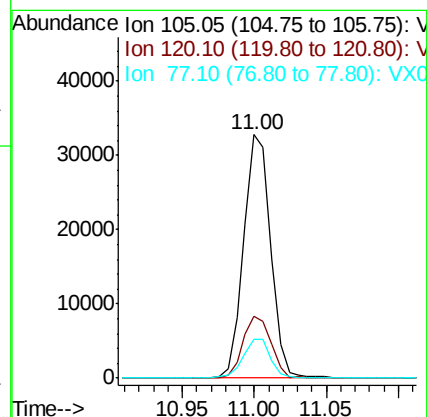
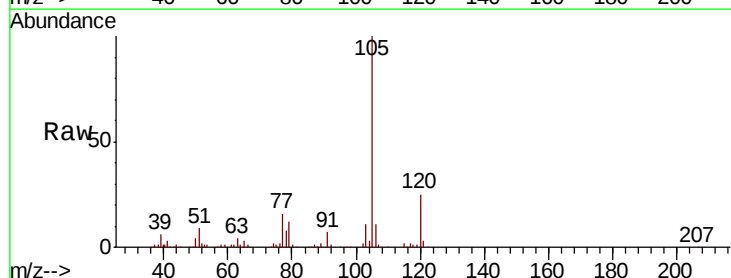
Tgt Ion:105 Resp: 42635

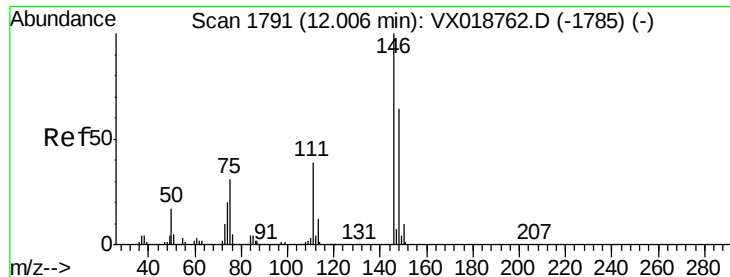
Ion Ratio Lower Upper

105 100

120 26.4 20.2 30.2

77 16.3 13.3 19.9

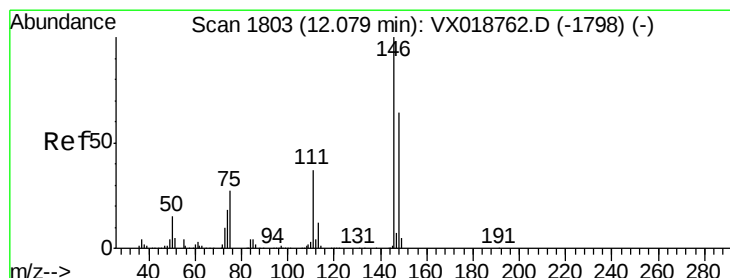
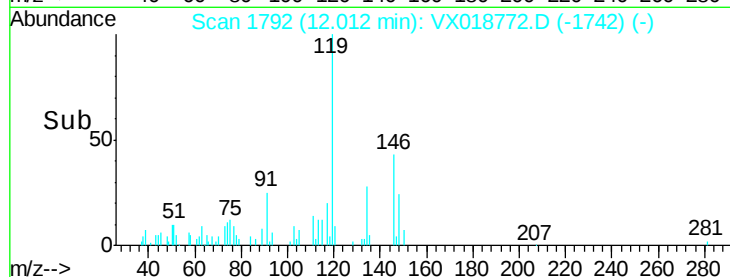
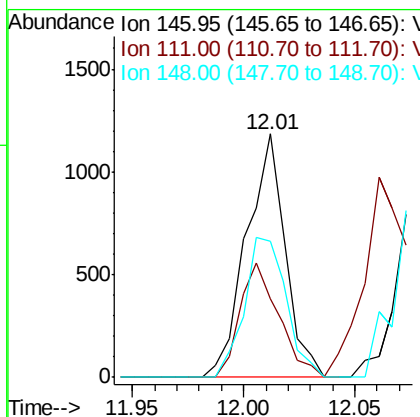
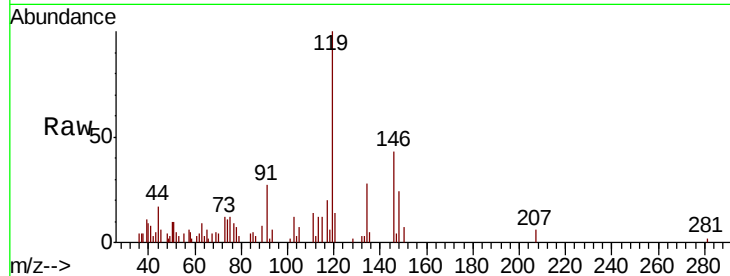




#63
 1,3-Dichlorobenzene
 Concen: 0.082 ug/L
 RT: 12.01 min Scan# 1792
 Delta R.T. 0.01 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

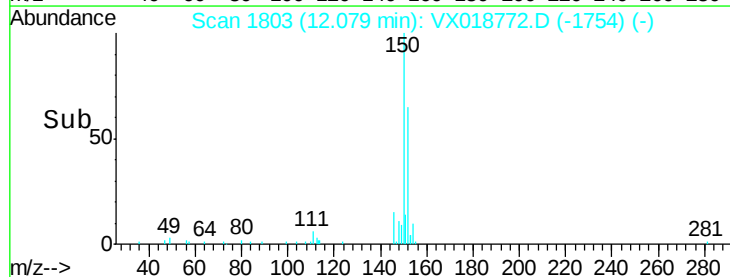
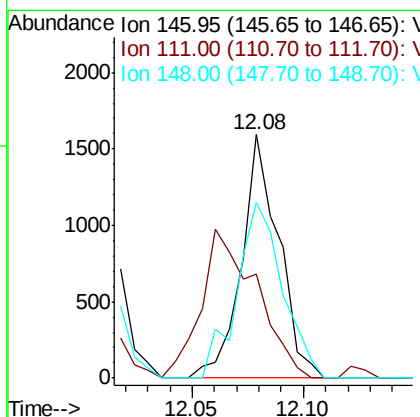
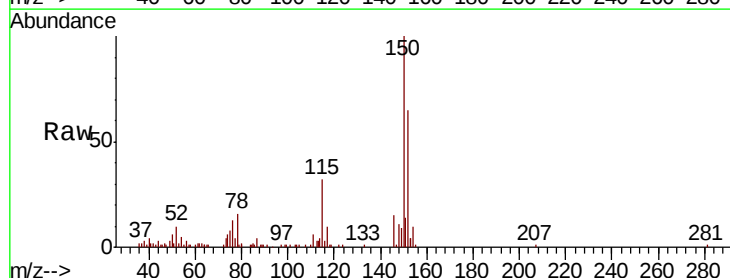
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N2DL

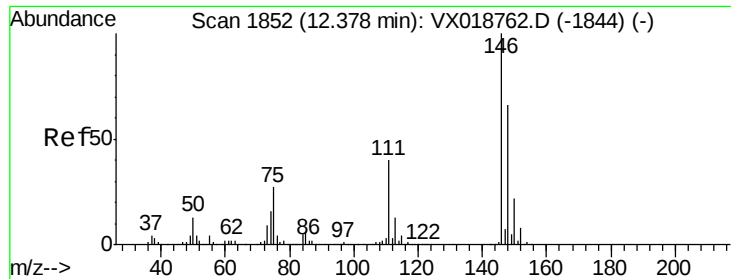
Tot Ion:146 Resp: 1437
 Ion Ratio Lower Upper
 146 100
 111 32.3 28.4 52.8
 148 55.7 45.9 85.3



#64
 1,4-Dichlorobenzene
 Concen: 0.106 ug/L
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX018772.D
 Acq: 05 Oct 2020 17:54

Tgt Ion:146 Resp: 1852
 Ion Ratio Lower Upper
 146 100
 111 42.8 28.6 53.2
 148 72.1 44.2 82.0





#66

1,2-Dichlorobenzene

Concen: 0.499 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

Instrument :

MSVOA_X

ClientSampleId :

BG3N2DL

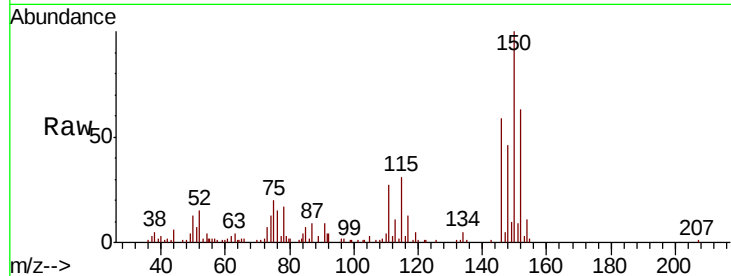
Tot Ion:146 Resp: 8176

Ion Ratio Lower Upper

146 100

111 46.0 31.7 47.5

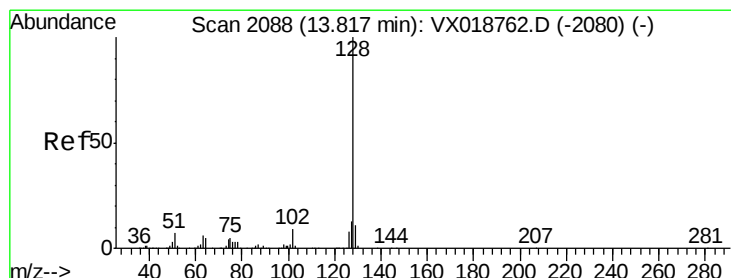
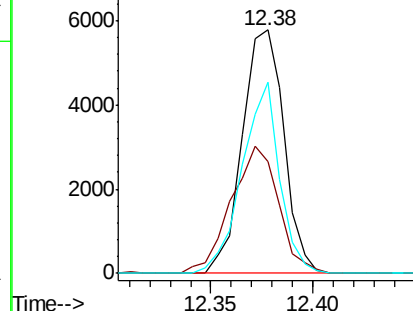
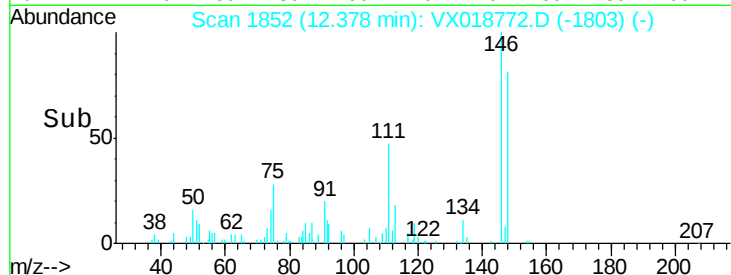
148 78.2 49.0 73.6#



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



#70

Naphthalene

Concen: 4.508 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018772.D

Acq: 05 Oct 2020 17:54

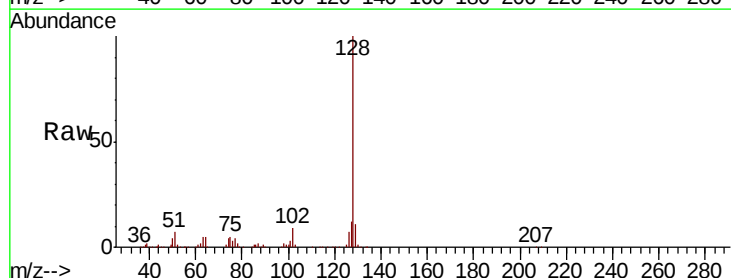
Tgt Ion:128 Resp: 82611

Ion Ratio Lower Upper

128 100

129 10.6 9.0 13.4

127 13.6 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

