

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VOX092820\
 Data File : VX018628.D
 Acq On : 28 Sep 2020 20:31
 Operator : JC/SP
 Sample : L4135-08
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG482

Quant Time: Sep 29 02:40:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR092820WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Sep 29 02:30:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	283054	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	265826	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	130577	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	68791	4.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.80%
7) Chloroethane-d5	1.70	69	58799	4.71	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.20%
11) 1,1-Dichloroethene-d2	2.34	63	114810	3.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	70.20%
20) 2-Butanone-d5	4.55	46	190752	50.50	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.00%
24) Chloroform-d	5.14	84	156716	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.20%
26) 1,2-Dichloroethane-d4	6.04	65	84518	4.13	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.60%
32) Benzene-d6	6.05	84	292763	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
36) 1,2-Dichloropropane-d6	7.37	67	91361	4.89	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.80%
41) Toluene-d8	8.70	98	272786	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
45) trans-1,3-Dichloropropene-	8.99	79	37011	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
48) 2-Hexanone-d5	9.43	63	153869	51.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.34%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	67532	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.00%
65) 1,2-Dichlorobenzene-d4	12.36	152	102918	4.82	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.40%

Target Compounds

					Ovalue
3) Chloromethane	1.31	50	2214	0.151 ug/L #	55
5) Vinyl chloride	1.39	62	1206	0.079 ug/L #	1
8) Chloroethane	1.72	64	8589	1.019 ug/L #	58
13) Acetone	2.43	43	2980	1.425 ug/L #	2
14) Carbon disulfide	2.56	76	4987	0.119 ug/L	98
15) Methyl Acetate	2.82	43	4545	0.785 ug/L #	55
16) Methylene chloride	2.84	84	3544	0.188 ug/L	78
17) Methyl tert-butyl Ether	3.17	73	44554	1.449 ug/L #	1
18) trans-1,2-Dichloroethene	3.15	96	2246	0.163 ug/L #	71
27) 1,2-Dichloroethane	6.12	62	54291	3.170 ug/L #	76
30) Cyclohexane	5.55	56	18049	0.896 ug/L	89
33) Benzene	6.12	78	5718014	111.566 ug/L	100
35) Methylcyclohexane	7.44	83	18407	0.892 ug/L	94
42) Toluene	8.76	91	16301	0.294 ug/L	97
43) 1,3,5-Trimethylbenzene	11.79	105	71208	1.471 ug/L	94
44) 1,2,4-Trimethylbenzene	11.79	105	71208	1.471 ug/L	95
53) Chlorobenzene	10.12	112	496461	13.575 ug/L	98

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Sep 29 02:30:52 2020
Response via : Initial Calibration

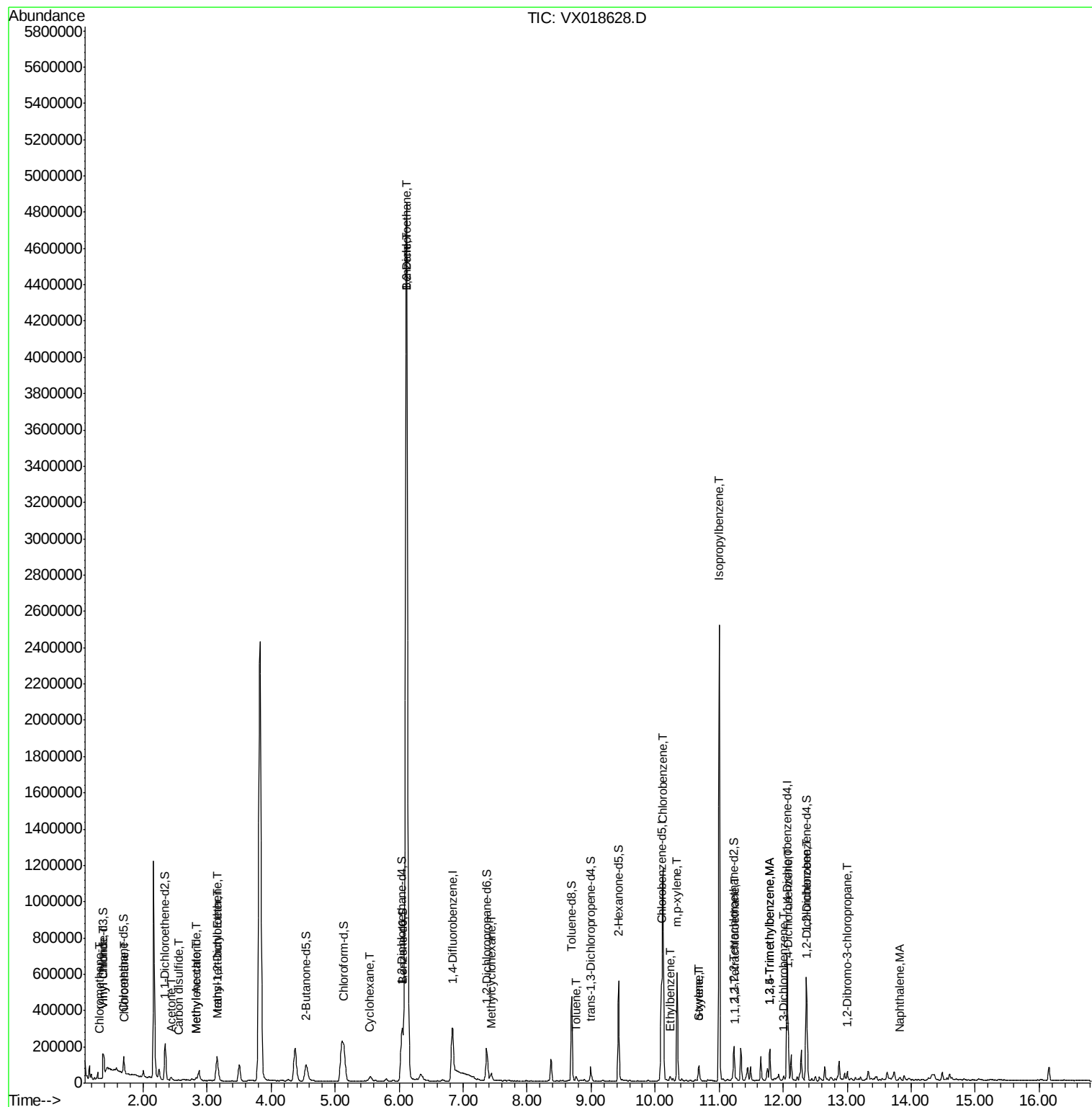
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.23	91	14776	0.245	ug/L	97
55) m,p-xylene	10.34	106	137443	5.961	ug/L	97
56) o-xylene	10.68	106	18308	0.840	ug/L	80
57) Styrene	10.68	104	2296	0.064	ug/L #	1
58) Isopropylbenzene	11.00	105	1277152	21.863	ug/L	100
60) 1,1,2,2-Tetrachloroethane	11.25	83	908	0.082	ug/L #	29
63) 1,3-Dichlorobenzene	12.01	146	6101	0.215	ug/L	89
64) 1,4-Dichlorobenzene	12.08	146	56933	1.986	ug/L	92
66) 1,2-Dichlorobenzene	12.38	146	72310	2.734	ug/L	96
67) 1,2-Dibromo-3-chloropropan	13.01	75	585	0.260	ug/L #	9
70) Naphthalene	13.82	128	7701	0.261	ug/L #	91

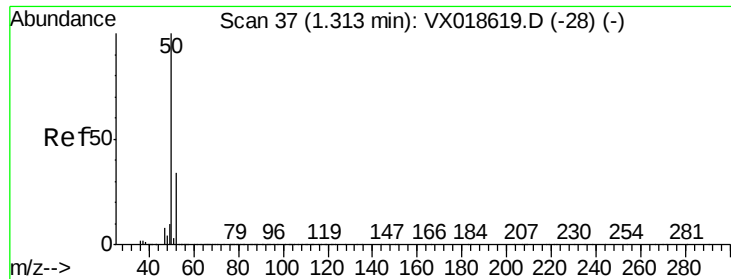
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.151 ug/L

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampleId :

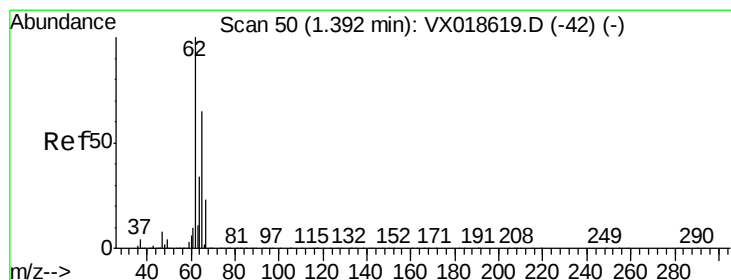
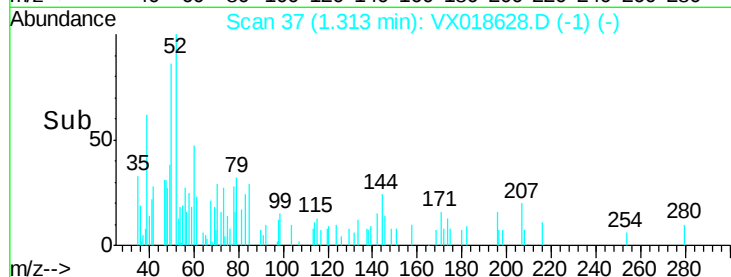
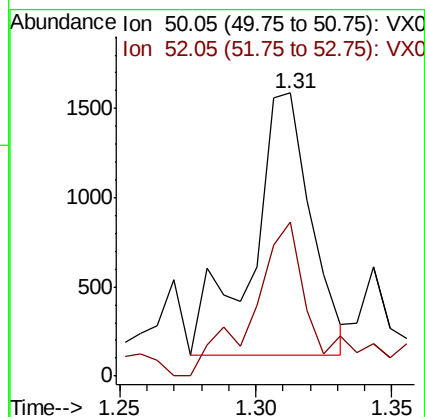
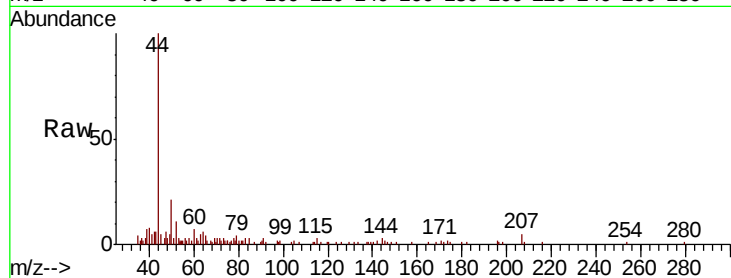
BG482

Tot Ion: 50 Resp: 2214

Ion Ratio Lower Upper

50 100

52 54.6 21.2 39.4#



#5

Vinyl chloride

Concen: 0.079 ug/L

RT: 1.39 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX018628.D

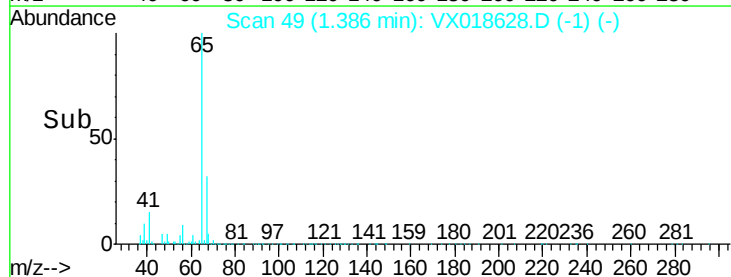
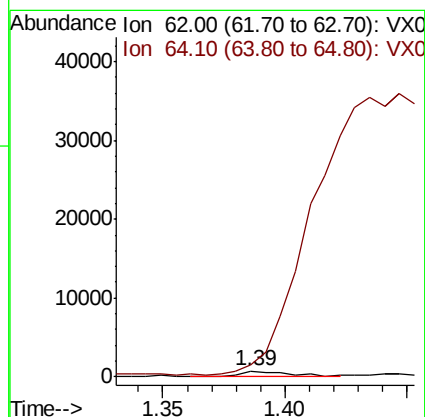
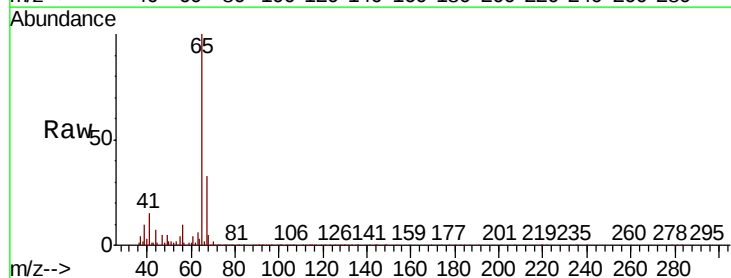
Acq: 28 Sep 2020 20:31

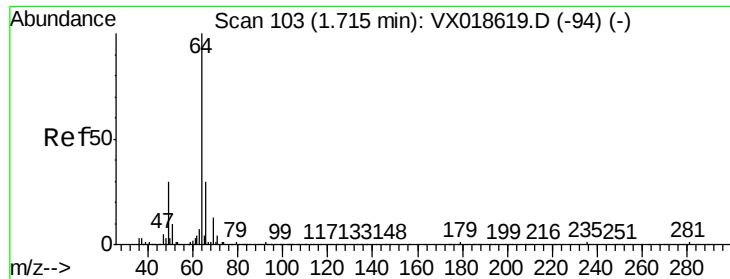
Tgt Ion: 62 Resp: 1206

Ion Ratio Lower Upper

62 100

64 210.8 23.6 43.8#

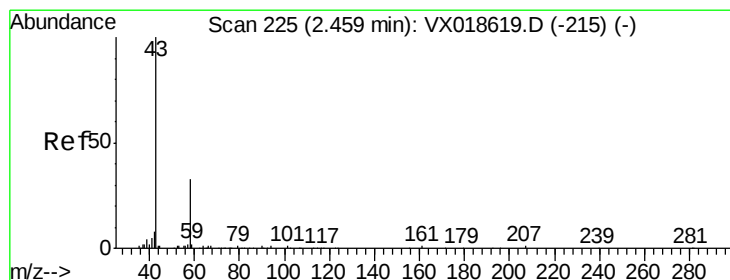
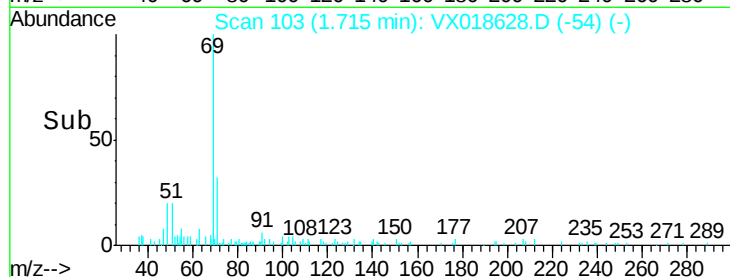
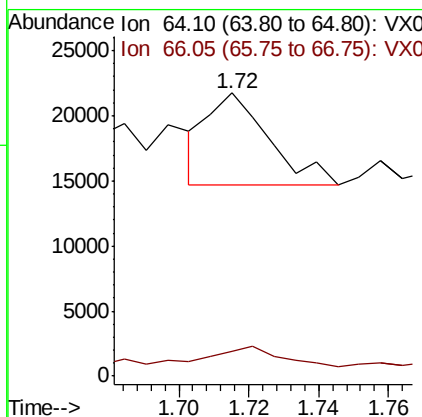
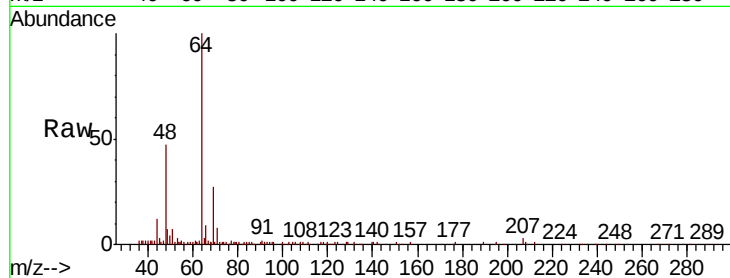




#8
Chloroethane
Concen: 1.019 ug/L
RT: 1.72 min Scan# 103
Delta R.T. -0.00 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

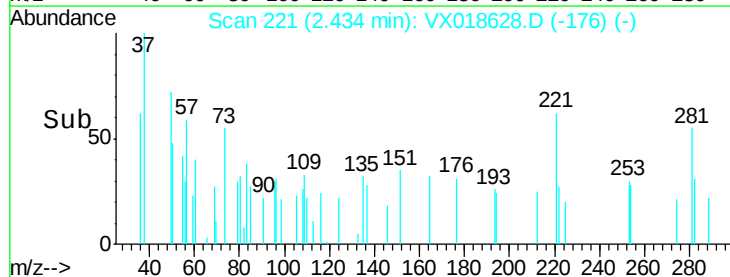
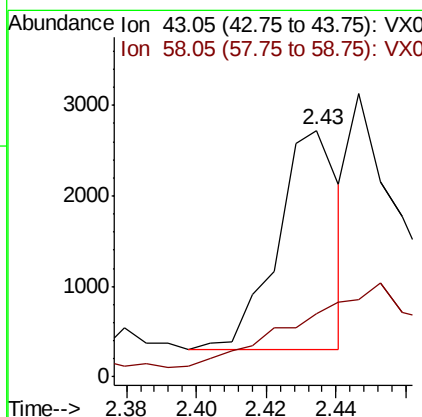
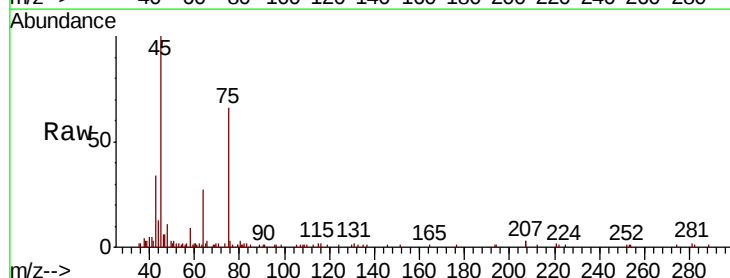
Instrument :
MSVOA_X
ClientSampleId :
BG482

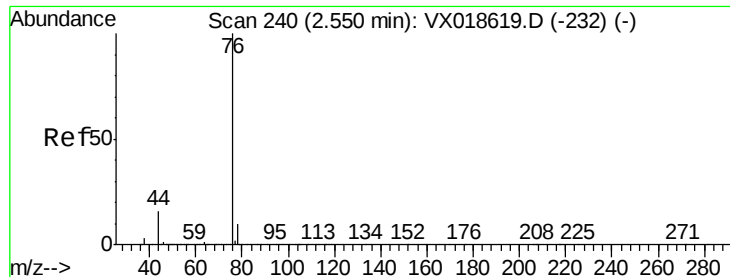
Tot Ion: 64 Resp: 8589
Ion Ratio Lower Upper
64 100
66 8.7 22.3 41.3#



#13
Acetone
Concen: 1.425 ug/L
RT: 2.43 min Scan# 221
Delta R.T. -0.02 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

Tgt Ion: 43 Resp: 2980
Ion Ratio Lower Upper
43 100
58 84.3 0.0 61.6#





#14

Carbon disulfide

Concen: 0.119 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampleId :

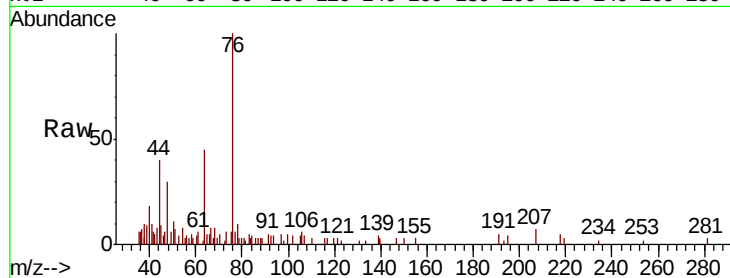
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Tot Ion: 76 Resp: 4987

Ion Ratio Lower Upper

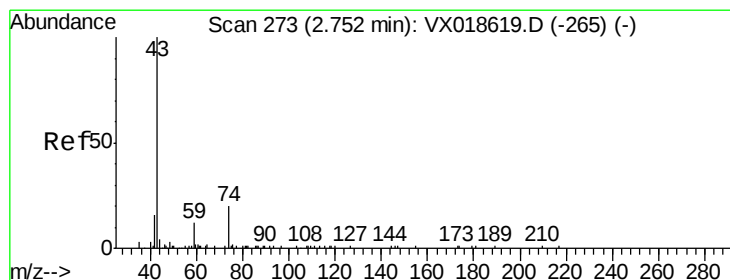
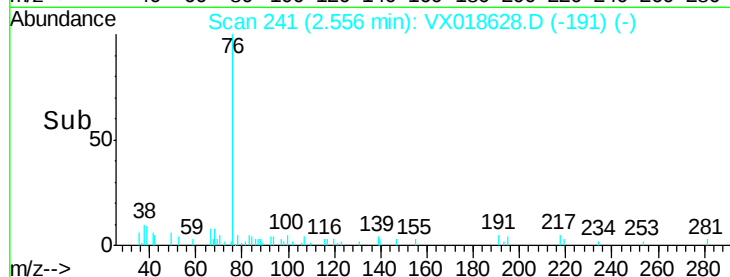
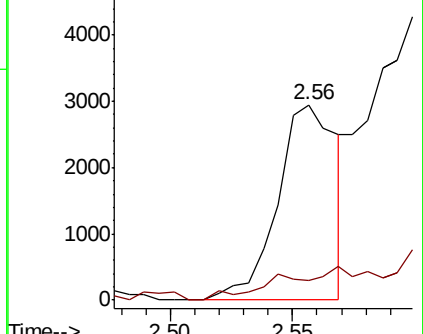
76 100

78 9.8 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



#15

Methyl Acetate

Concen: 0.785 ug/L

RT: 2.82 min Scan# 285

Delta R.T. 0.07 min

Lab File: VX018628.D

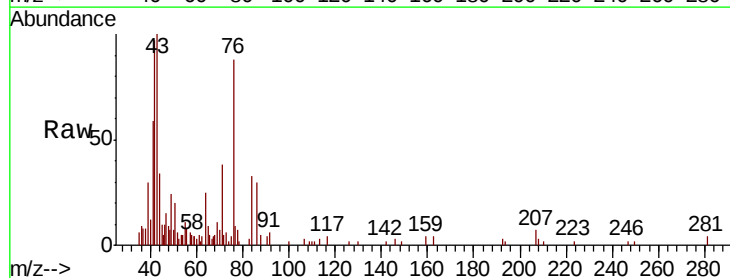
Acq: 28 Sep 2020 20:31

Tgt Ion: 43 Resp: 4545

Ion Ratio Lower Upper

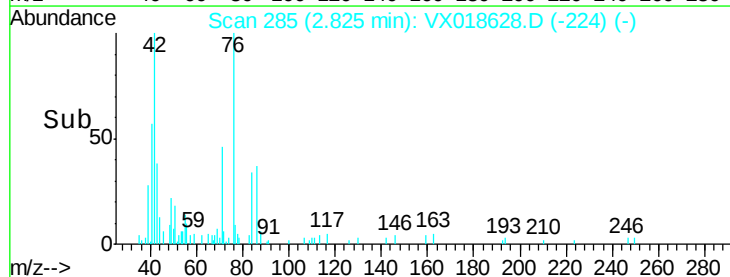
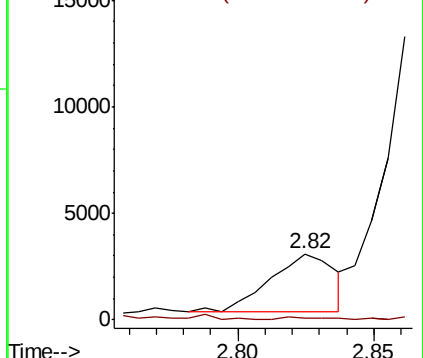
43 100

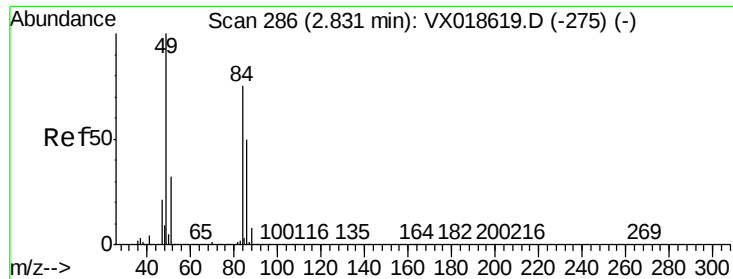
74 3.3 21.2 31.8#



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 74.05 (73.75 to 74.75): VX0

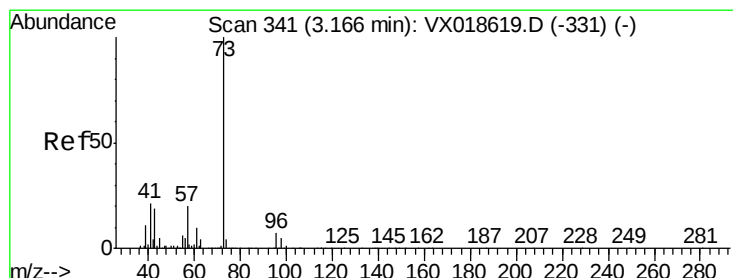
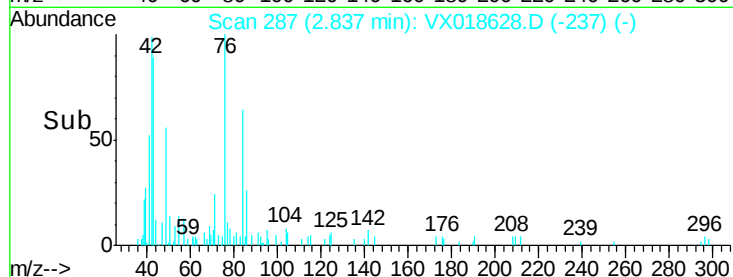
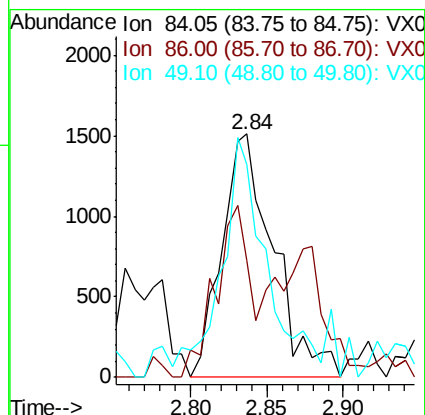
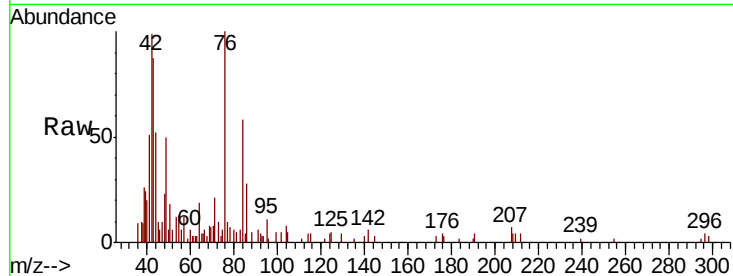




#16
Methvlene chloride
Concen: 0.188 ug/L
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

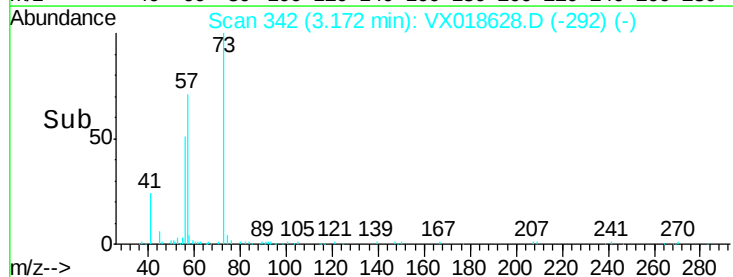
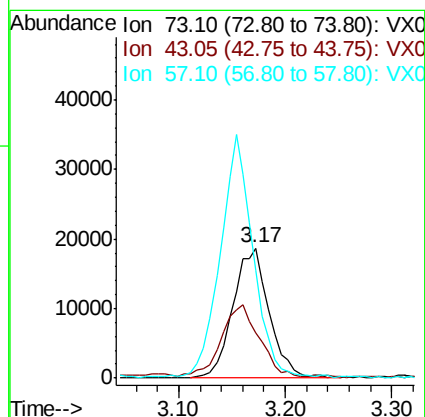
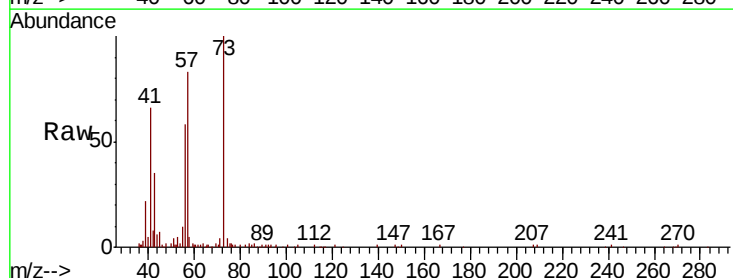
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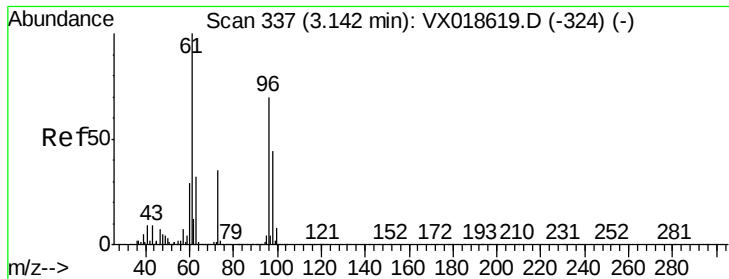
Tot Ion: 84 Resp: 3544
Ion Ratio Lower Upper
84 100
86 48.2 41.9 77.7
49 87.3 80.8 150.2



#17
Methyl tert-butyl Ether
Concen: 1.449 ug/L
RT: 3.17 min Scan# 342
Delta R.T. 0.01 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

Tgt Ion: 73 Resp: 44554
Ion Ratio Lower Upper
73 100
43 57.7 18.6 27.8#
57 166.0 17.3 25.9#





#18

trans-1,2-Dichloroethene

Concen: 0.163 ug/L

RT: 3.15 min Scan# 338

Delta R.T. 0.01 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampled :

BG482

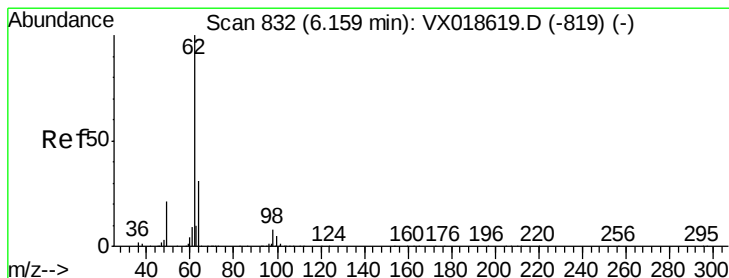
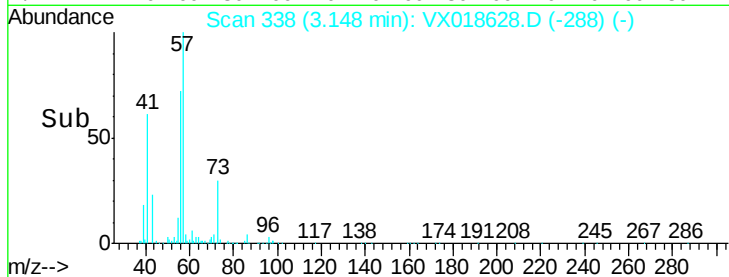
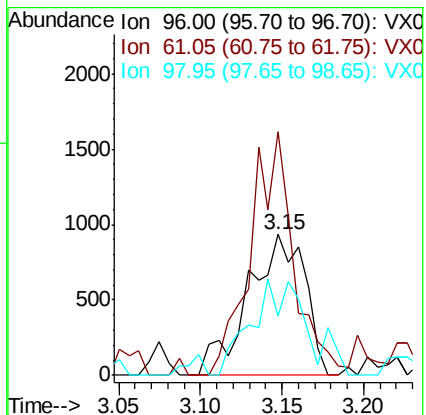
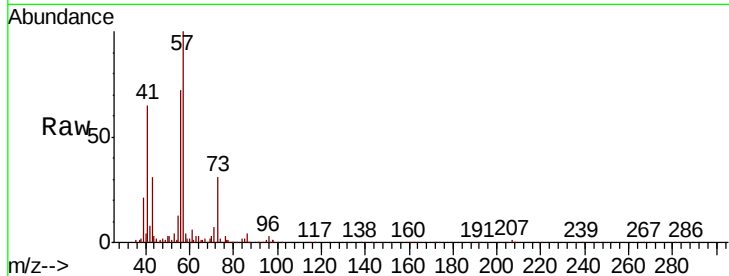
Tot Ion: 96 Resp: 2246

Ion Ratio Lower Upper

96 100

61 173.0 97.3 180.7

98 41.8 46.6 86.6#



#27

1,2-Dichloroethane

Concen: 3.170 ug/L

RT: 6.12 min Scan# 825

Delta R.T. -0.04 min

Lab File: VX018628.D

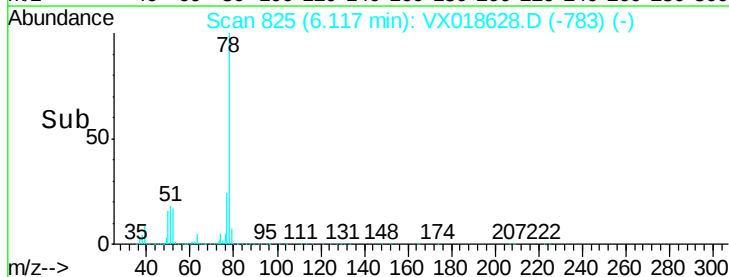
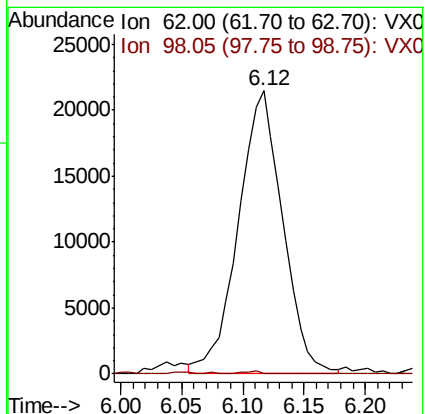
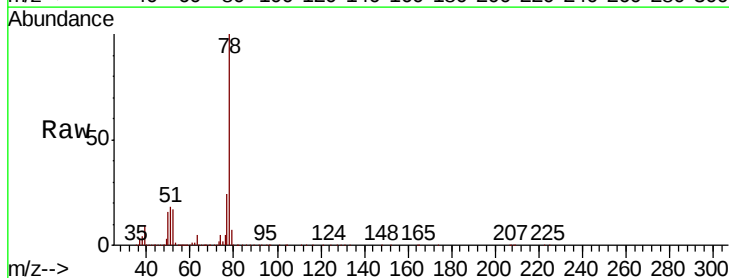
Acq: 28 Sep 2020 20:31

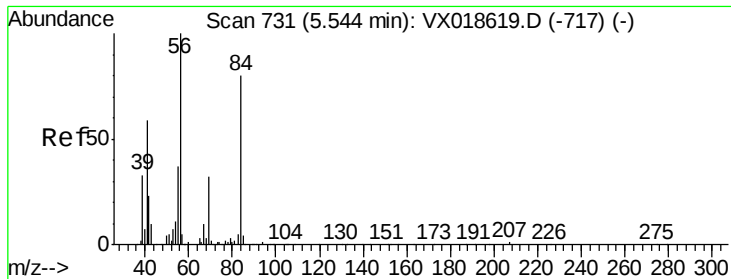
Tgt Ion: 62 Resp: 54291

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.4#

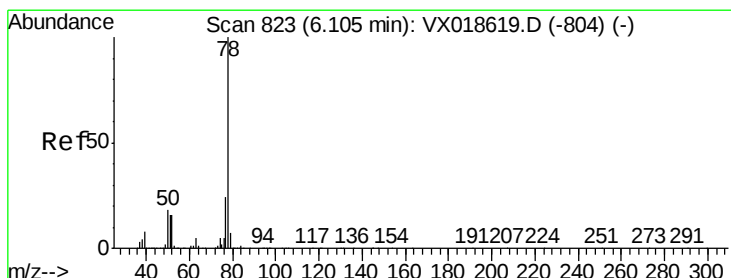
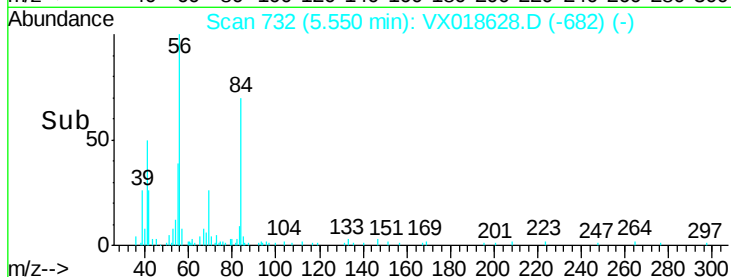
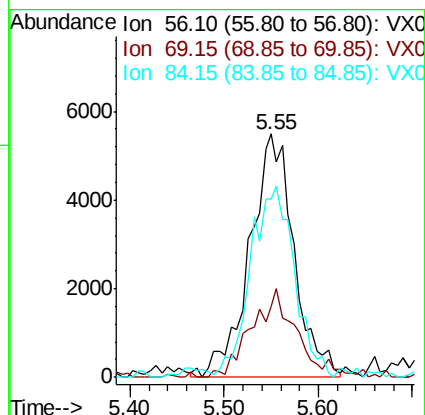
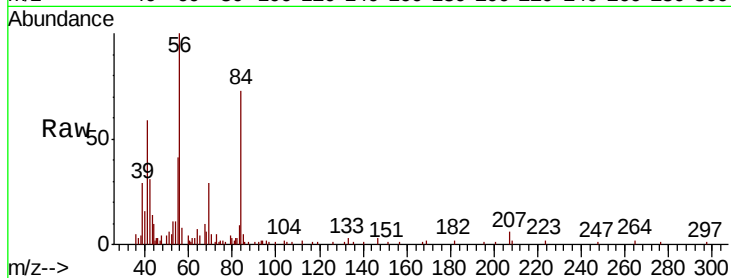




#30
Cyclohexane
Concen: 0.896 ug/L
RT: 5.55 min Scan# 732
Delta R.T. 0.01 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

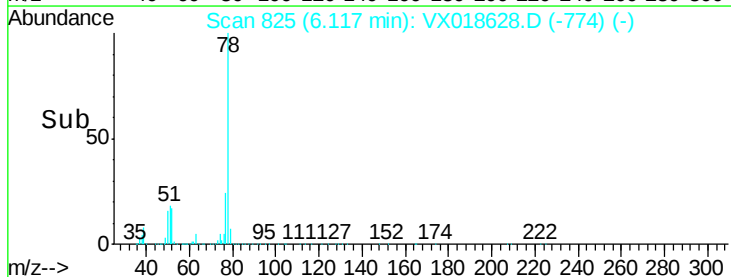
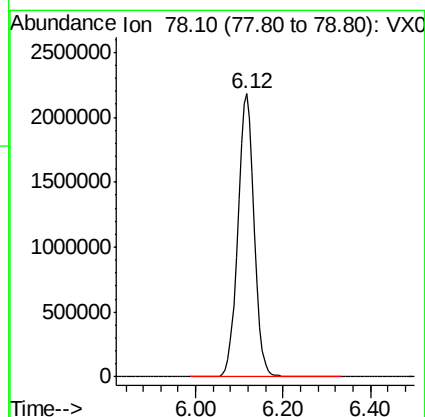
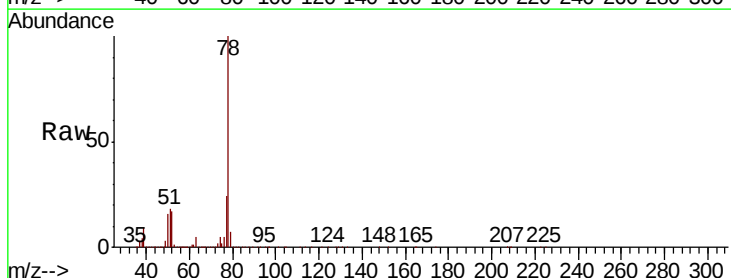
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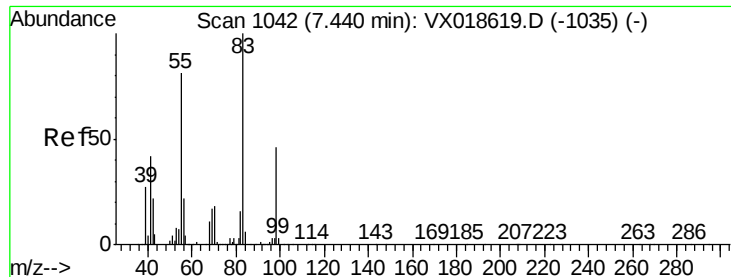
Tot Ion: 56 Resp: 18049
Ion Ratio Lower Upper
56 100
69 34.8 26.4 39.6
84 77.7 72.7 109.1



#33
Benzene
Concen: 111.566 ug/L
RT: 6.12 min Scan# 825
Delta R.T. 0.01 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

Tgt Ion: 78 Resp: 5718014

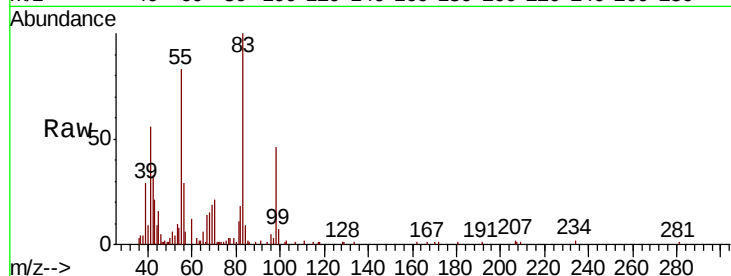




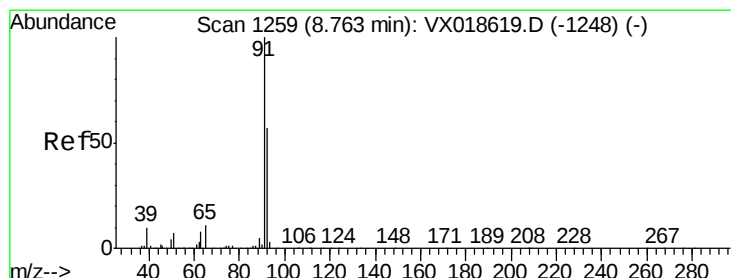
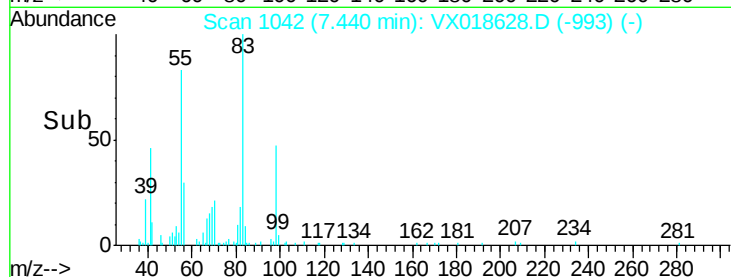
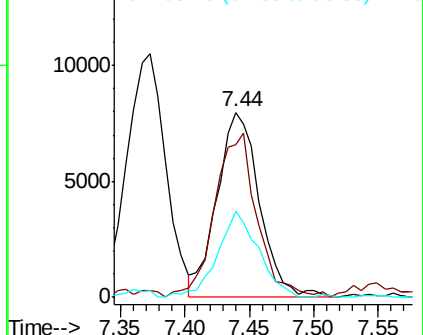
#35
Methvlcvclohexane
Concen: 0.892 ug/L
RT: 7.44 min Scan# 1042
Delta R.T. -0.00 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

Instrument :
MSVOA_X
ClientSampled :
BG482

Tot Ion	83	Resp	18407
Ion Ratio	Lower	Upper	
83	100		
55	88.3	67.4	101.0
98	44.7	41.1	61.7

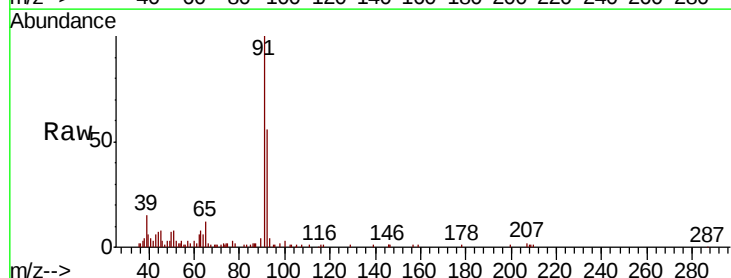


Abundance Ion 83.15 (82.85 to 83.85): VX0
Ion 55.10 (54.80 to 55.80): VX0
Ion 98.15 (97.85 to 98.85): VX0

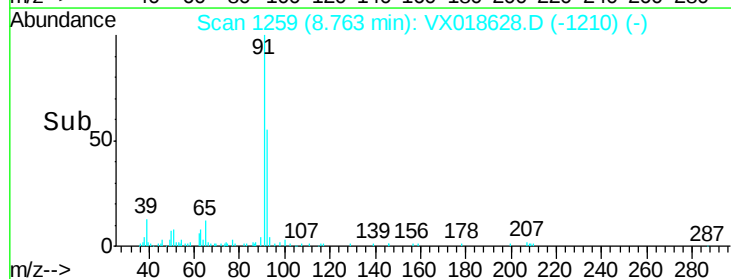
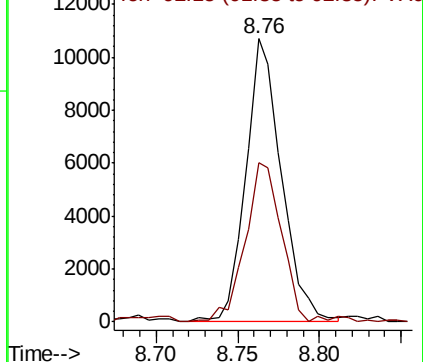


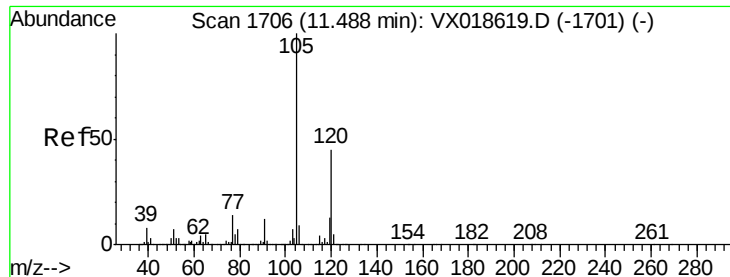
#42
Toluene
Concen: 0.294 ug/L
RT: 8.76 min Scan# 1259
Delta R.T. -0.00 min
Lab File: VX018628.D
Acq: 28 Sep 2020 20:31

Tgt Ion	91	Resp	16301
Ion Ratio	Lower	Upper	
91	100		
92	56.1	41.1	76.3



Abundance Ion 91.15 (90.85 to 91.85): VX0
Ion 92.15 (91.85 to 92.85): VX0





#43

1,3,5-Trimethylbenzene

Concen: 1.471 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.30 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampled :

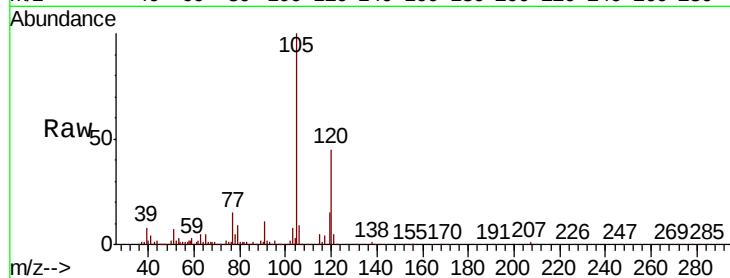
BG482

Tot Ion:105 Resp: 71208

Ion Ratio Lower Upper

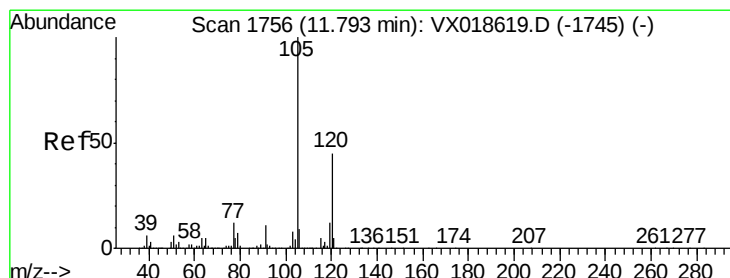
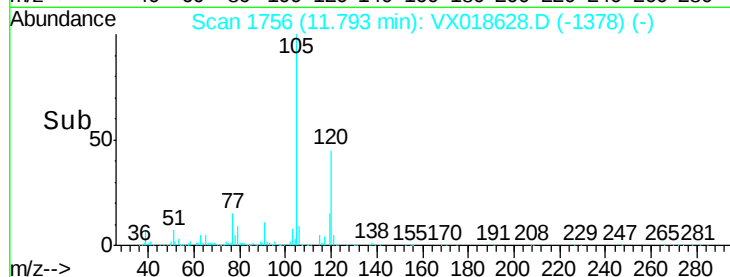
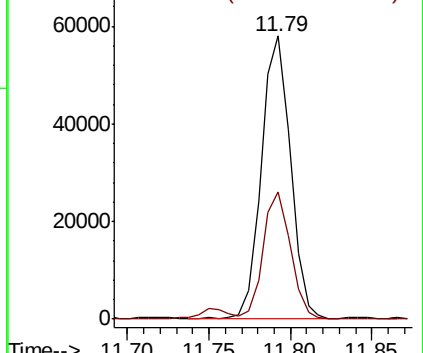
105 100

120 42.8 37.2 55.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#44

1,2,4-Trimethylbenzene

Concen: 1.471 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX018628.D

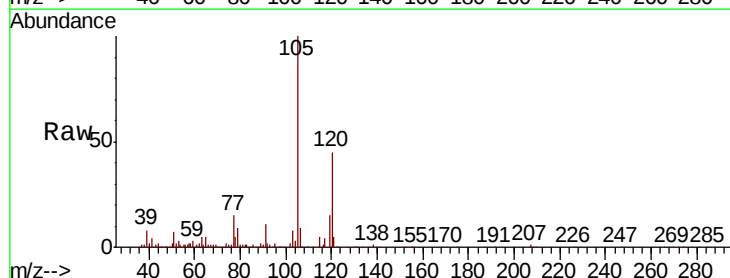
Acq: 28 Sep 2020 20:31

Tgt Ion:105 Resp: 71208

Ion Ratio Lower Upper

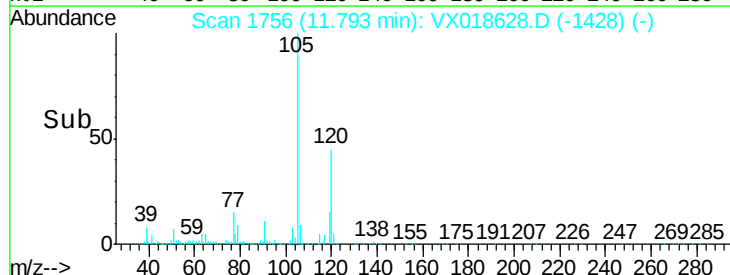
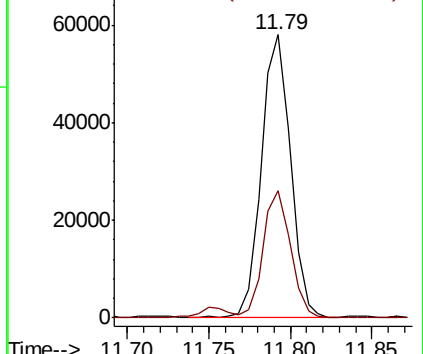
105 100

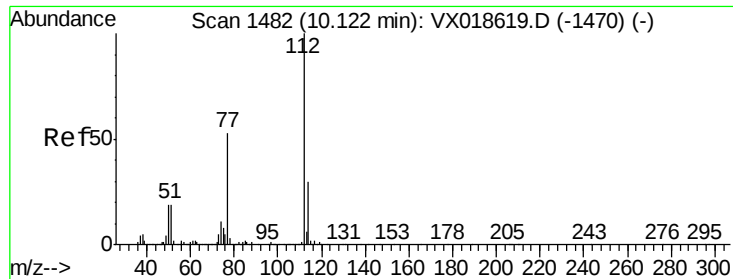
120 42.8 36.8 55.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#53

Chlorobenzene

Concen: 13.575 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampleId :

BG482

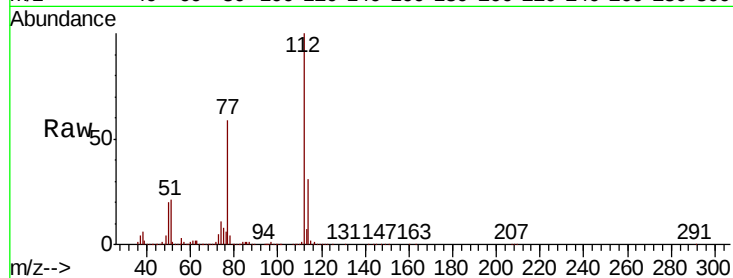
Tot Ion:112 Resp: 496461

Ion Ratio Lower Upper

112 100

114 30.7 20.6 38.4

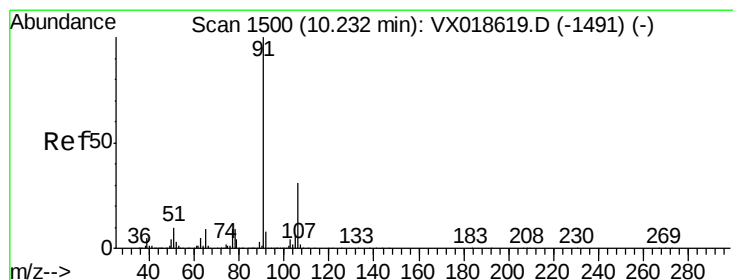
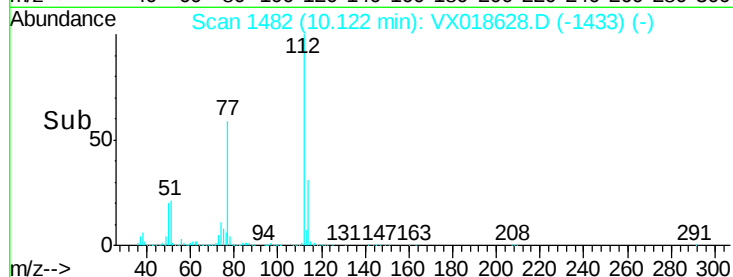
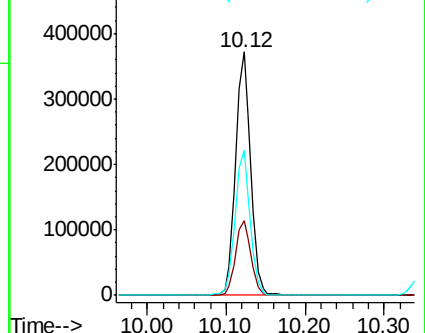
77 59.5 46.6 69.8



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: 0.245 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. -0.00 min

Lab File: VX018628.D

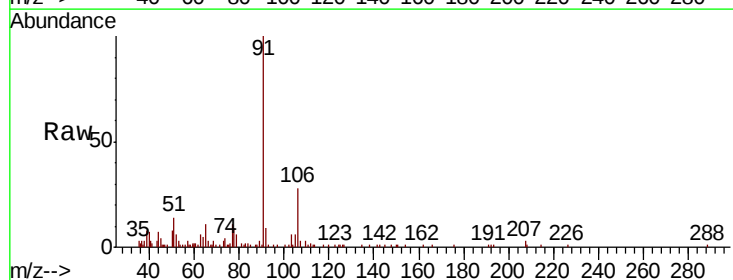
Acq: 28 Sep 2020 20:31

Tgt Ion: 91 Resp: 14776

Ion Ratio Lower Upper

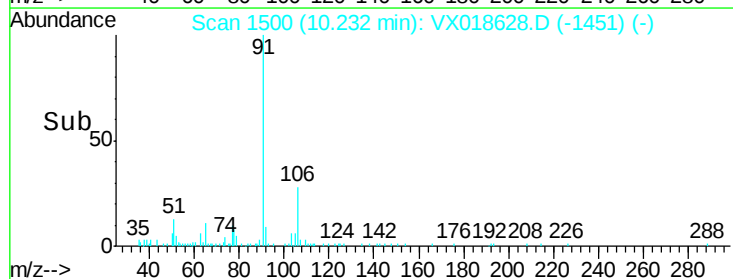
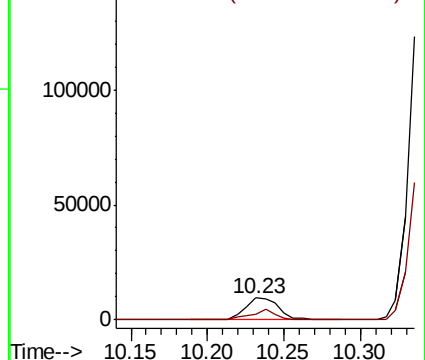
91 100

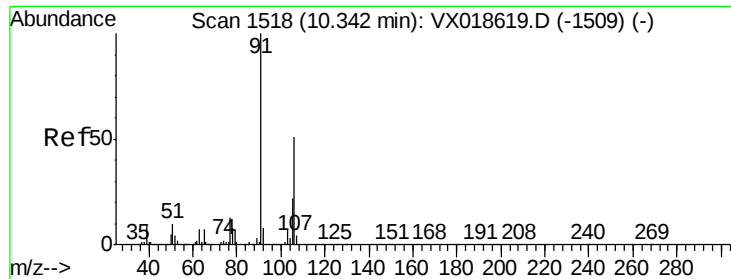
106 28.1 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 5.961 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampleId :

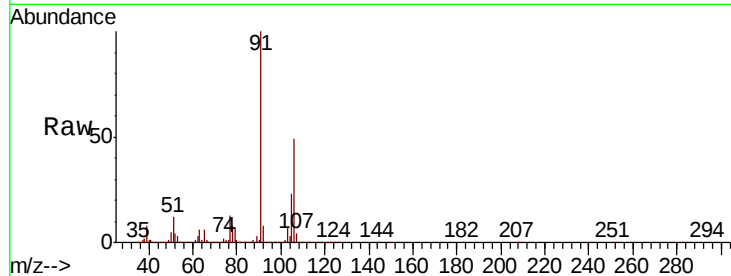
BG482

Tot Ion:106 Resp: 137443

Ion Ratio Lower Upper

106 100

91 204.9 140.3 260.6



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

200000

150000

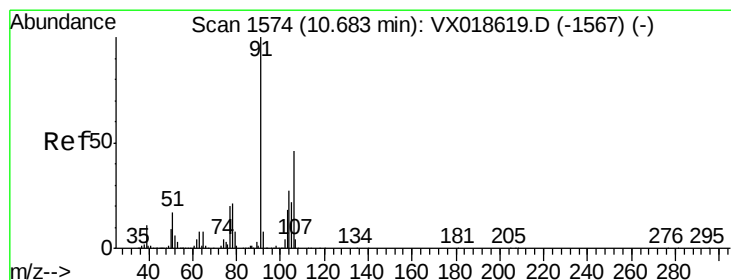
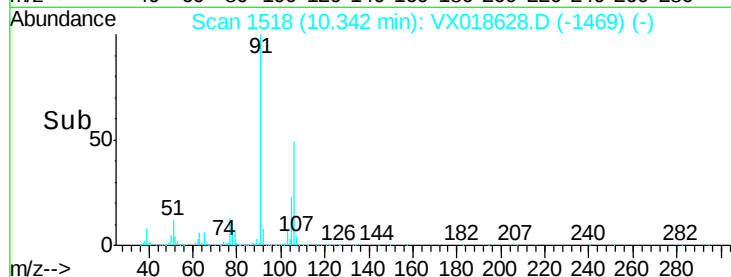
100000

50000

0

10.34

Time-->



#56

o-xylene

Concen: 0.840 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX018628.D

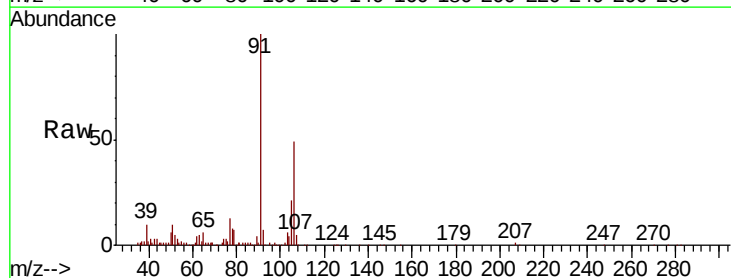
Acq: 28 Sep 2020 20:31

Tgt Ion:106 Resp: 18308

Ion Ratio Lower Upper

106 100

91 206.1 167.5 311.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0

30000

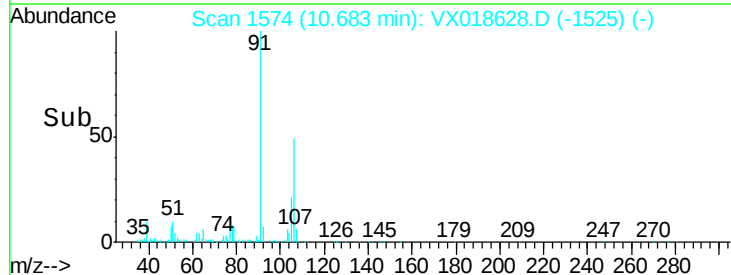
20000

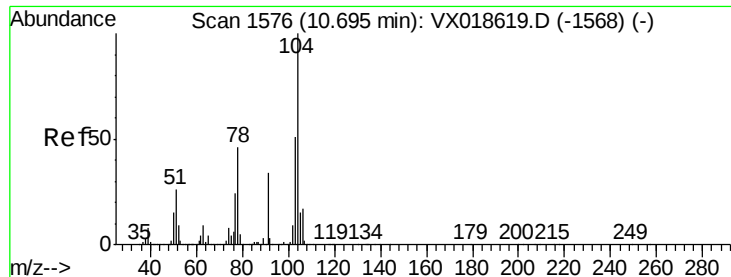
10000

0

10.68

Time-->





#57

Stvrene

Concen: 0.064 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampleId :

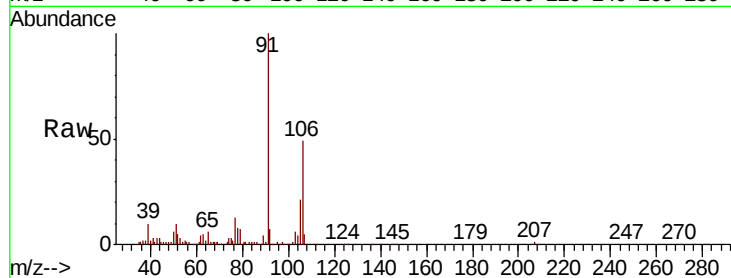
BG482

Tot Ion:104 Resp: 2296

Ion Ratio Lower Upper

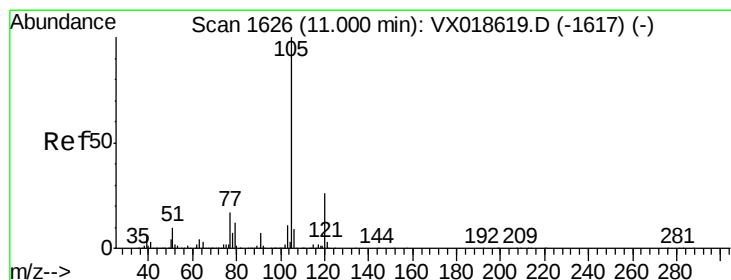
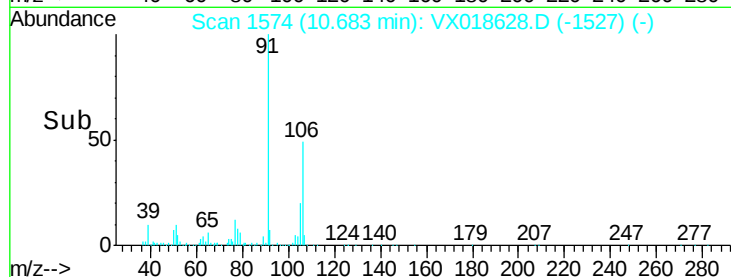
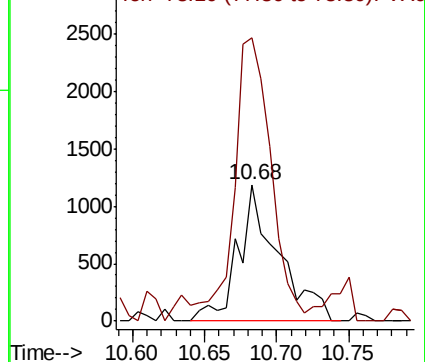
104 100

78 207.2 33.3 61.9#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VX0



#58

Isopropylbenzene

Concen: 21.863 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

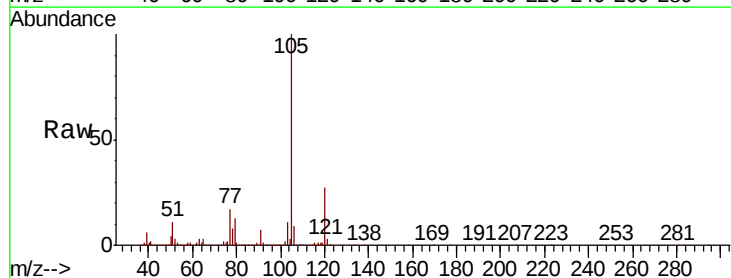
Tgt Ion:105 Resp: 1277152

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

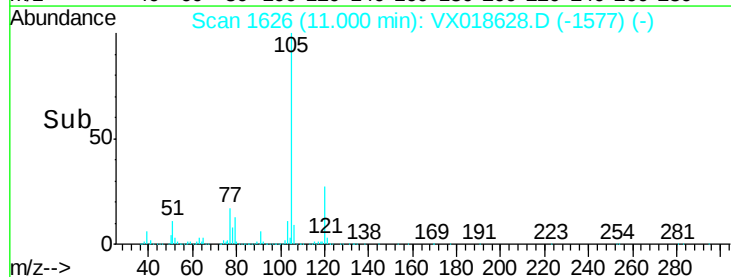
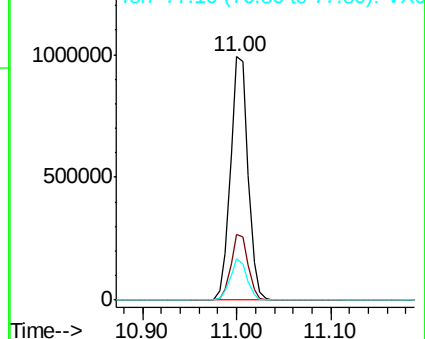
77 16.1 13.3 19.9

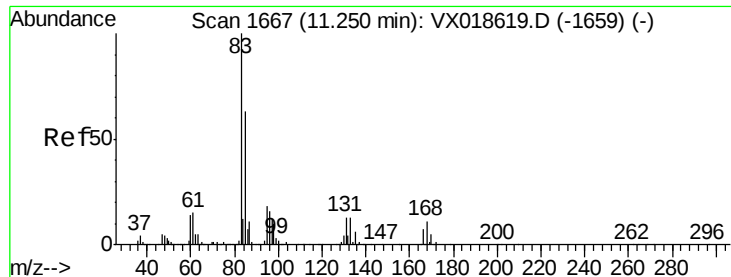


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VX0





#60

1,1,2,2-Tetrachloroethane

Concen: 0.082 ug/L

RT: 11.25 min Scan# 1667

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampleId :

BG482

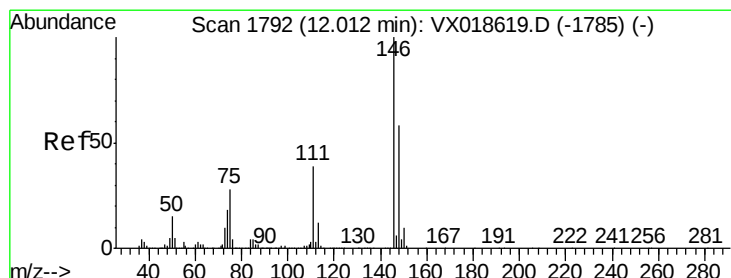
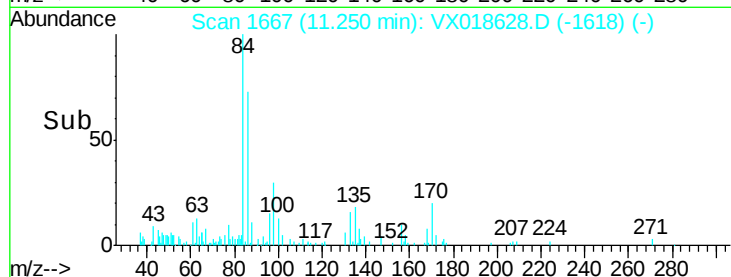
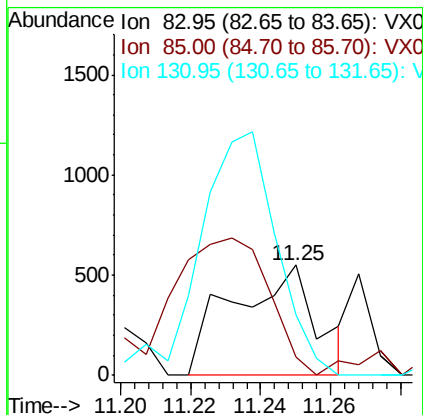
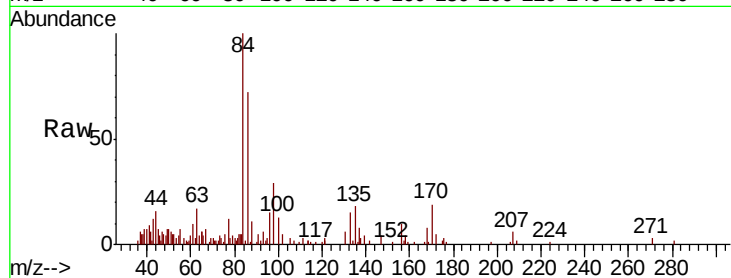
Tot Ion: 83 Resp: 908

Ion Ratio Lower Upper

83 100

85 16.9 48.5 90.1#

131 54.4 7.8 11.6#



#63

1,3-Dichlorobenzene

Concen: 0.215 ug/L

RT: 12.01 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

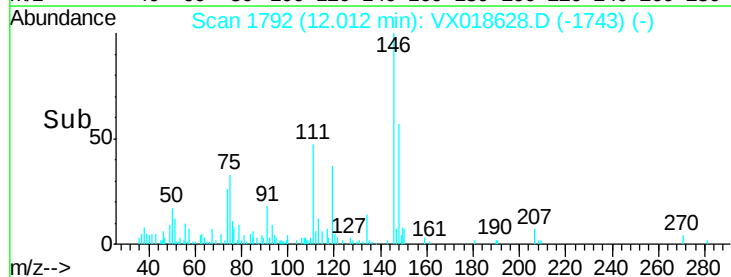
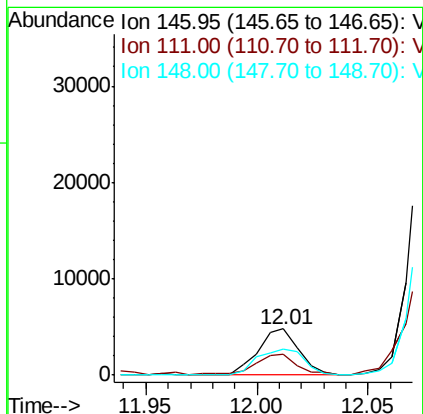
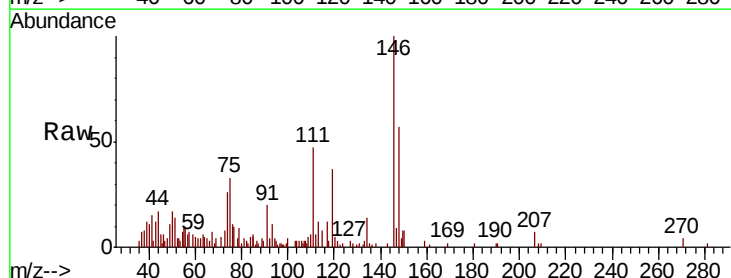
Tgt Ion: 146 Resp: 6101

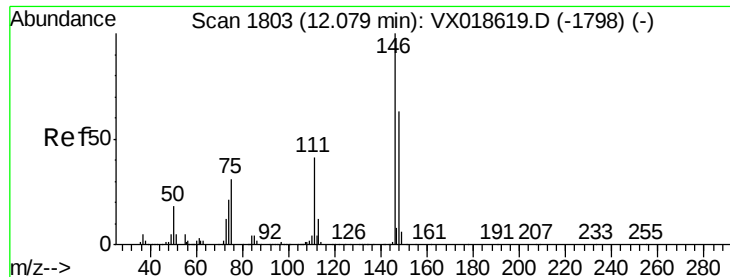
Ion Ratio Lower Upper

146 100

111 46.6 26.7 49.7

148 56.6 44.4 82.5





#64

1,4-Dichlorobenzene

Concen: 1.986 ug/L

RT: 12.08 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

Instrument :

MSVOA_X

ClientSampleId :

BG482

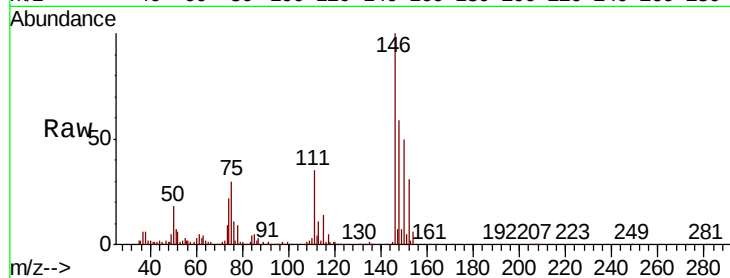
Tot Ion:146 Resp: 56933

Ion Ratio Lower Upper

146 100

111 34.7 28.8 53.4

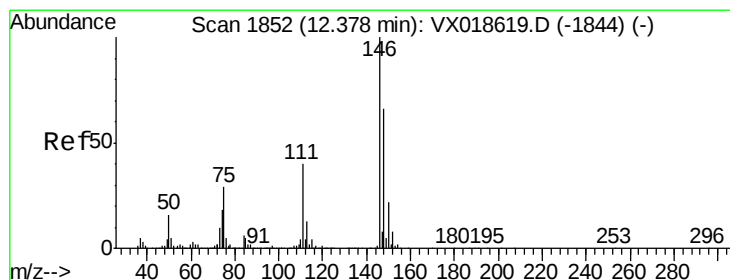
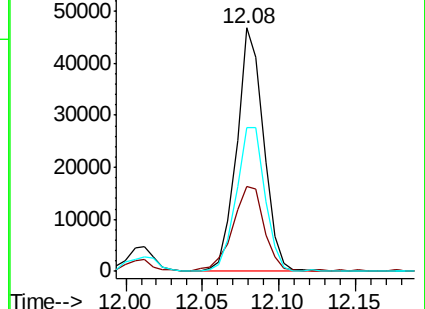
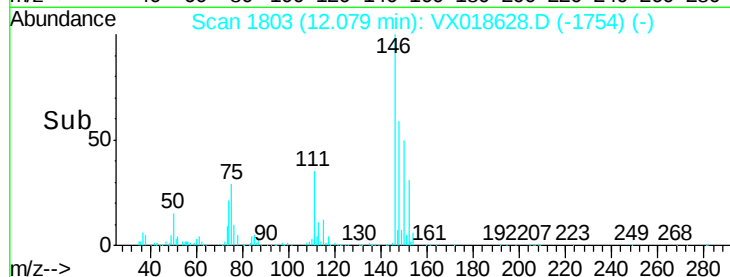
148 59.0 44.9 83.3



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



#66

1,2-Dichlorobenzene

Concen: 2.734 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX018628.D

Acq: 28 Sep 2020 20:31

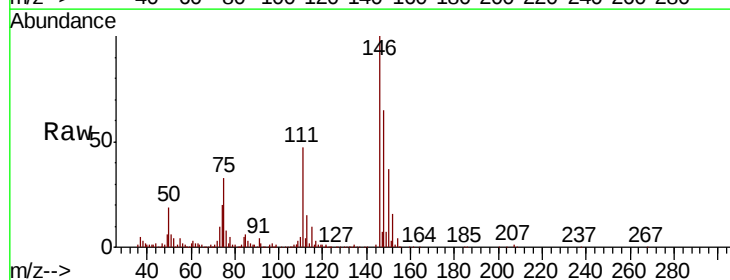
Tgt Ion:146 Resp: 72310

Ion Ratio Lower Upper

146 100

111 47.3 33.6 50.4

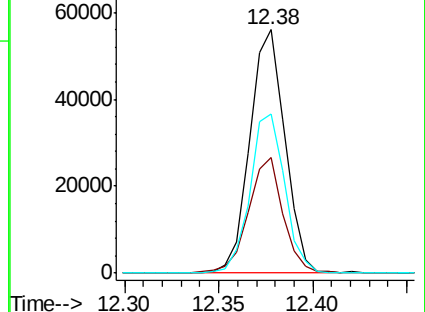
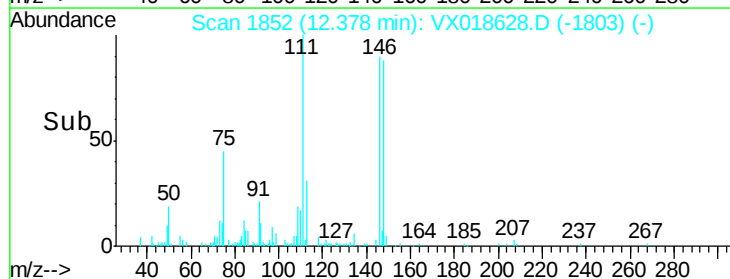
148 65.3 53.4 80.2

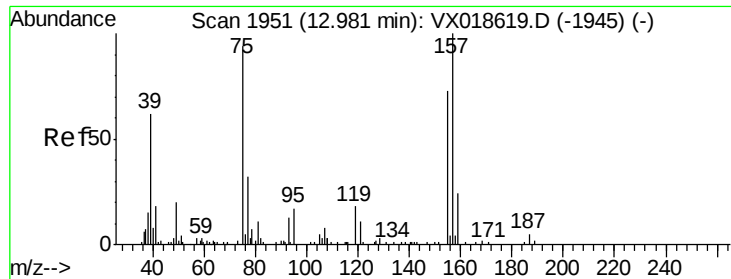


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

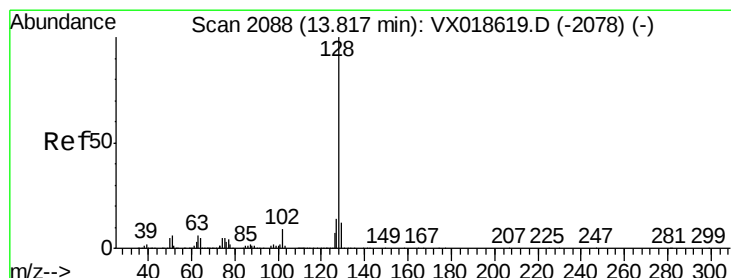
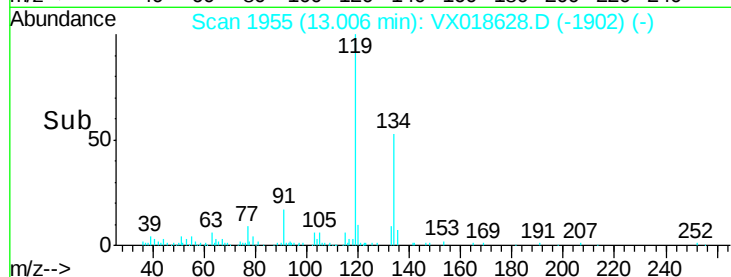
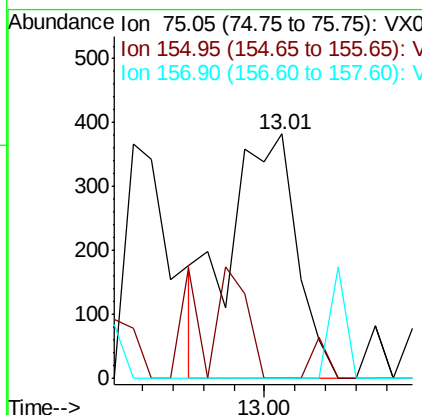
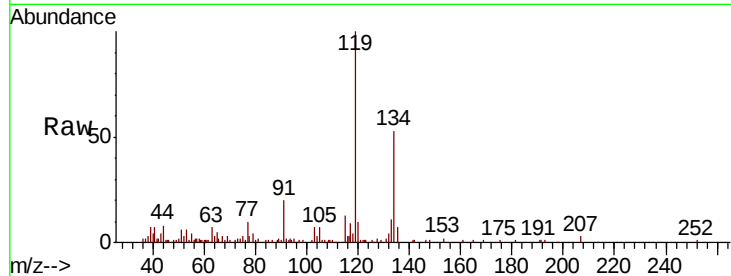




#67
 1,2-Dibromo-3-chloropropane
 Concen: 0.260 ug/L
 RT: 13.01 min Scan# 1955
 Delta R.T. 0.02 min
 Lab File: VX018628.D
 Acq: 28 Sep 2020 20:31

Instrument :
 MSVOA_X
 ClientSampled :
 BG482

Tot Ion: 75 Resp: 585
 Ion Ratio Lower Upper
 75 100
 155 0.0 54.6 81.8#
 157 0.0 73.5 110.3#



#70
 Naphthalene
 Concen: 0.261 ug/L
 RT: 13.82 min Scan# 2088
 Delta R.T. -0.00 min
 Lab File: VX018628.D
 Acq: 28 Sep 2020 20:31

Tgt Ion: 128 Resp: 7701
 Ion Ratio Lower Upper
 128 100
 129 16.9 8.8 13.2#
 127 14.5 10.7 16.1

