

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122821\
 Data File : VX026120.D
 Acq On : 29 Dec 2021 00:14
 Operator : JC/MD
 Sample : M5233-01 10X
 Misc : 10.51g/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 29 04:35:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML122821WMA.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 29 04:20:17 2021
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.763	114	193836	50.000	ug/L	0.00
28) Chlorobenzene-d5	10.055	117	169235	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	12.024	152	83520	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.374	65	84617	56.244	ug/L	0.00
Spiked Amount 50.000	Range 60	- 135	Recovery	= 112.480%		
7) Chloroethane-d5	1.666	69	66599	60.895	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	= 121.780%		
11) 1,1-Dichloroethene-d2	2.307	63	126548	46.082	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 92.160%		
21) 2-Butanone-d5	4.465	46	116231	111.806	ug/L	0.00
Spiked Amount 100.000	Range 40	- 130	Recovery	= 111.810%		
24) Chloroform-d	5.062	84	142022	55.586	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 111.180%		
26) 1,2-Dichloroethane-d4	5.958	65	97946	59.139	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 118.280%		
32) Benzene-d6	5.977	84	291951	59.837	ug/L	0.00
Spiked Amount 50.000	Range 70	- 125	Recovery	= 119.680%		
36) 1,2-Dichloropropane-d6	7.312	67	90153	59.728	ug/L	0.00
Spiked Amount 50.000	Range 70	- 120	Recovery	= 119.460%		
41) Toluene-d8	8.653	98	265127	59.582	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 119.160%		
43) trans-1,3-Dichloroprop...	8.952	79	42750	58.021	ug/L	0.00
Spiked Amount 50.000	Range 60	- 125	Recovery	= 116.040%		
47) 2-Hexanone-d5	9.391	63	79248	112.577	ug/L	0.00
Spiked Amount 100.000	Range 45	- 130	Recovery	= 112.580%		
56) 1,1,2,2-Tetrachloroeth...	11.195	84	119372	59.424	ug/L	0.00
Spiked Amount 50.000	Range 65	- 120	Recovery	= 118.840%		
66) 1,2-Dichlorobenzene-d4	12.323	152	97236	61.032	ug/L	0.00
Spiked Amount 50.000	Range 80	- 120	Recovery	= 122.060%#		
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.374	62	2234	1.368	ug/L #	9
10) 1,1,2-Trichloro-1,2,2-...	2.337	101	9538	7.509	ug/L	91
12) 1,1-Dichloroethene	2.325	96	7208	6.100	ug/L #	1
15) Methyl Acetate	2.703	43	3236	2.089	ug/L #	66
19) 1,1-Dichloroethane	3.617	63	67419	29.447	ug/L	98
20) cis-1,2-Dichloroethene	4.495	96	99270	72.920	ug/L	98
29) Cyclohexane	5.477	56	24915	11.698	ug/L #	89
30) 1,1,1-Trichloroethane	5.391	97	475175	230.624	ug/L	100
33) Benzene	6.044	78	40667	8.139	ug/L	100
35) Methylcyclohexane	7.385	83	73320	36.132	ug/L	95
38) Bromodichloromethane	7.769	83	3048	1.705	ug/L #	61
39) cis-1,3-Dichloropropene	8.324	75	3461	1.745	ug/L #	52
40) 4-Methyl-2-pentanone	8.610	43	4929	2.375	ug/L #	49
42) Toluene	8.720	91	1822903	342.509	ug/L	99
46) Tetrachloroethene	9.275	164	15156	15.584	ug/L	93
49) Dibromochloromethane	9.275	129	14485	10.340	ug/L #	11
51) Chlorobenzene	10.079	112	6649	2.026	ug/L	97
52) Ethylbenzene	10.195	91	433916	77.558	ug/L	99
53) m,p-Xylene	10.305	106	559741	262.138	ug/L	97

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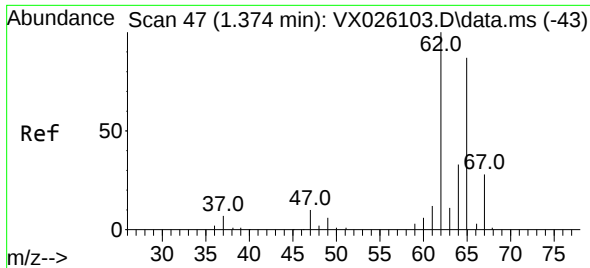
Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 29 04:35:55 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\SFAMXML122821WMA.M
 Quant Title : VOC Analysis
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 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

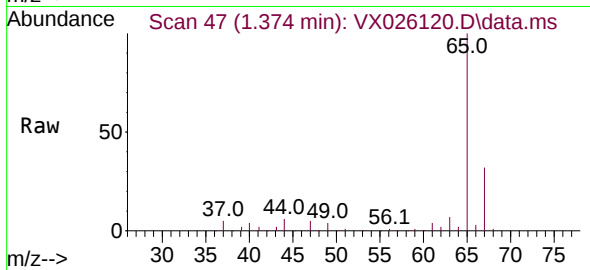
54) o-Xylene	10.646	106	212212	102.307	ug/L	97
55) Styrene	10.646	104	12238	3.437	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	11.220	83	6729	3.491	ug/L #	36
60) Isopropylbenzene	10.963	105	75692	13.514	ug/L	100
62) 1,3,5-Trimethylbenzene	11.451	105	237542	50.936	ug/L	99
63) 1,2,4-Trimethylbenzene	11.756	105	801388	170.431	ug/L	99
64) 1,3-Dichlorobenzene	11.969	146	2660	1.087	ug/L #	61
65) 1,4-Dichlorobenzene	12.043	146	8265	3.297	ug/L #	88
67) 1,2-Dichlorobenzene	12.335	146	24882	10.209	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.969	75	1261	2.649	ug/L #	2
70) 1,2,4-trichlorobenzene	13.591	180	1728	1.155	ug/L #	1
71) Naphthalene	13.780	128	239927	42.624	ug/L	98

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

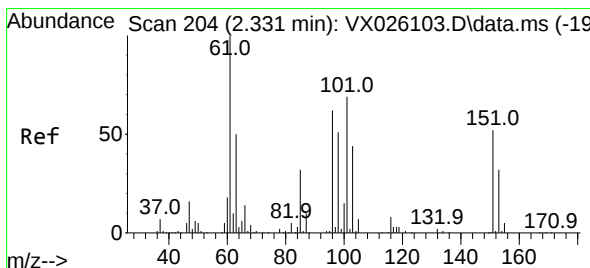
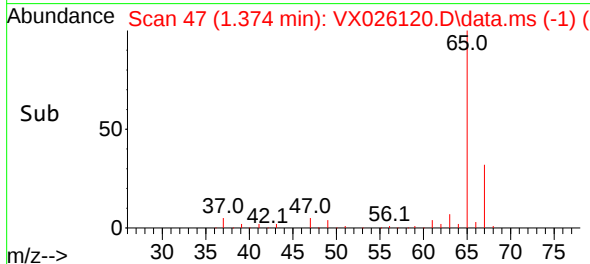
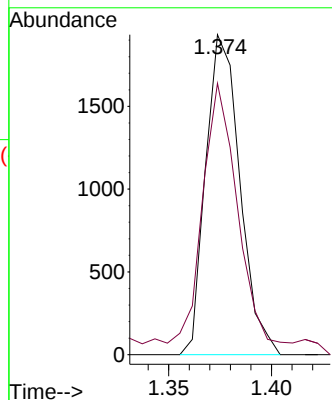


#5
 Vinyl chloride
 Concen: 1.368 ug/L
 RT: 1.374 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VX026120.D
 Acq: 29 Dec 2021 00:14

Instrument :
 MSVOA_X
 ClientSampleId :

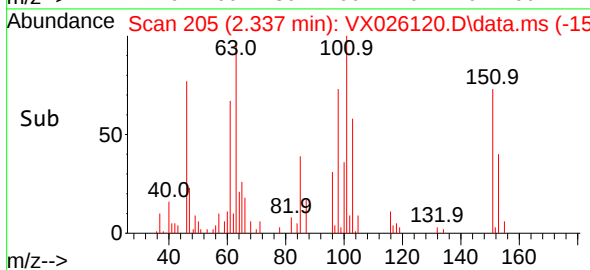
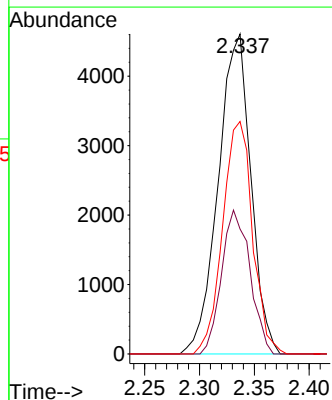
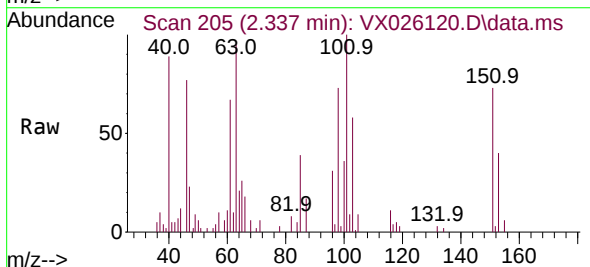


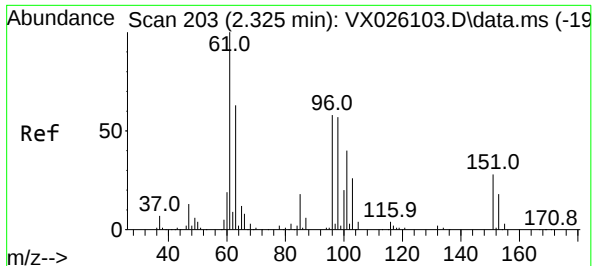
Tgt Ion: 62 Resp: 2234
 Ion Ratio Lower Upper
 62 100
 64 84.8 23.2 43.2#



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 7.509 ug/L
 RT: 2.337 min Scan# 205
 Delta R.T. 0.006 min
 Lab File: VX026120.D
 Acq: 29 Dec 2021 00:14

Tgt Ion: 101 Resp: 9538
 Ion Ratio Lower Upper
 101 100
 85 39.2 36.6 55.0
 151 66.6 58.5 87.7





#12

1,1-Dichloroethene

Concen: 6.100 ug/L

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

Instrument :

MSVOA_X

ClientSampleId :

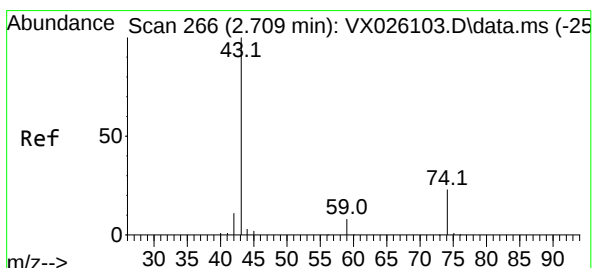
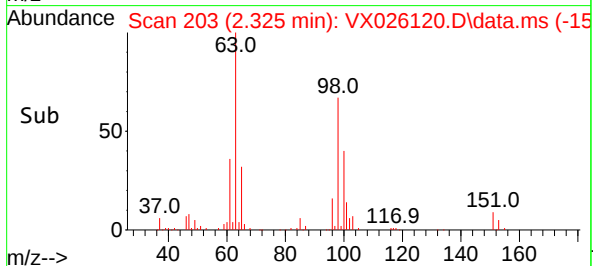
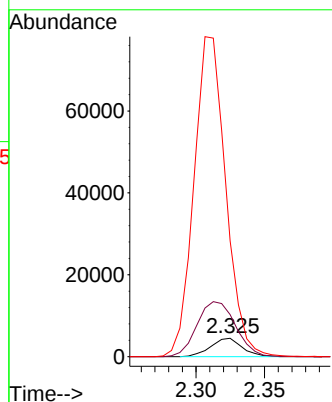
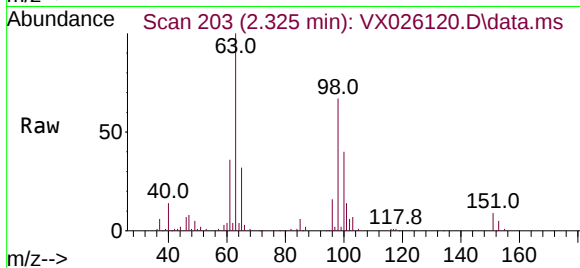
Tgt Ion: 96 Resp: 7208

Ion Ratio Lower Upper

96 100

61 228.6 121.6 225.8#

63 630.0 86.7 161.1#



#15

Methyl Acetate

Concen: 2.089 ug/L

RT: 2.703 min Scan# 265

Delta R.T. -0.006 min

Lab File: VX026120.D

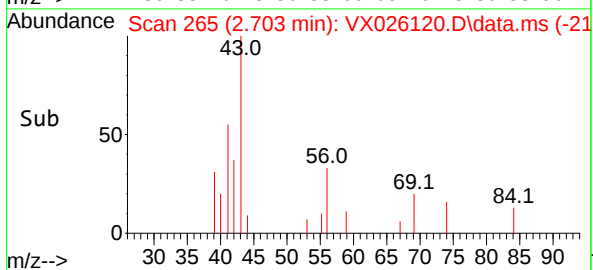
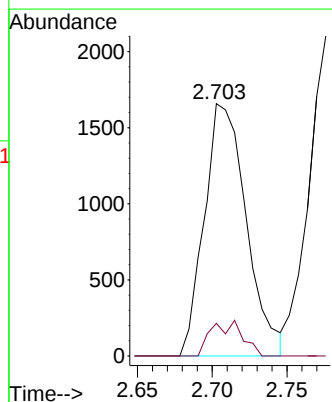
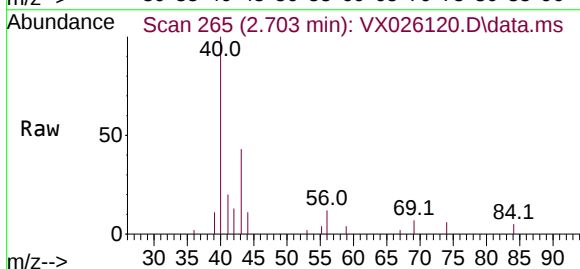
Acq: 29 Dec 2021 00:14

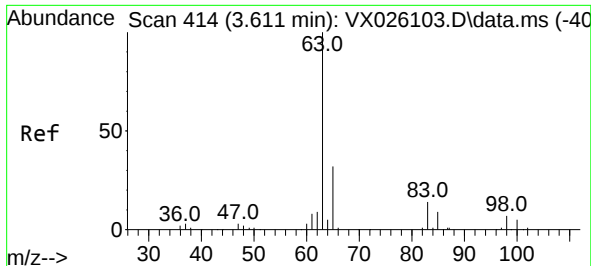
Tgt Ion: 43 Resp: 3236

Ion Ratio Lower Upper

43 100

74 5.7 17.8 26.6#





#19

1,1-Dichloroethane

Concen: 29.447 ug/L

RT: 3.617 min Scan# 41

Delta R.T. 0.006 min

Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

Instrument :

MSVOA_X

ClientSampleId :

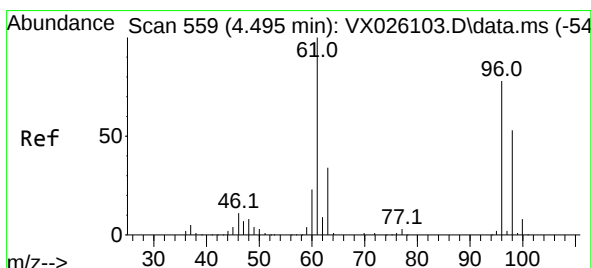
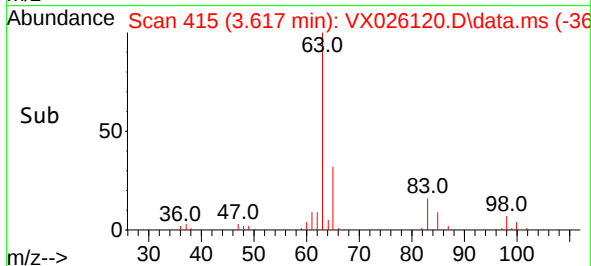
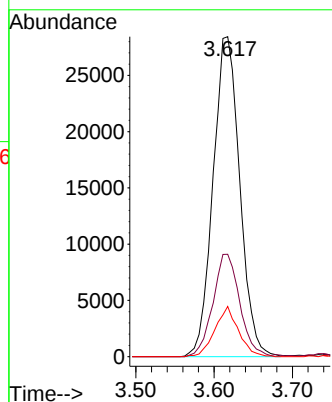
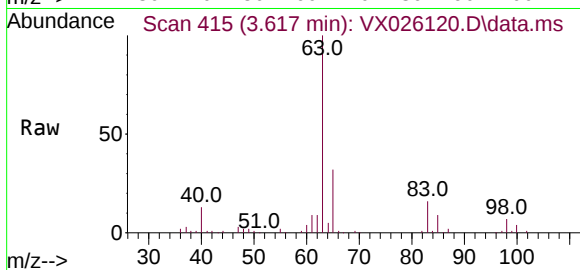
Tgt Ion: 63 Resp: 67419

Ion Ratio Lower Upper

63 100

65 32.0 21.8 40.6

83 15.7 9.7 17.9



#20

cis-1,2-Dichloroethene

Concen: 72.920 ug/L

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

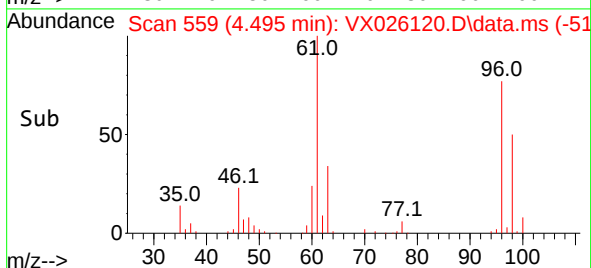
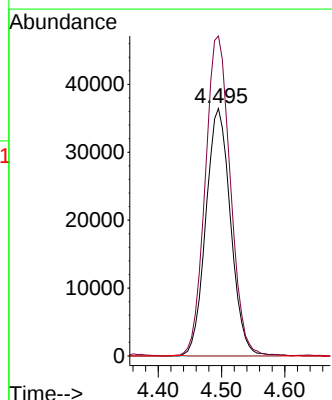
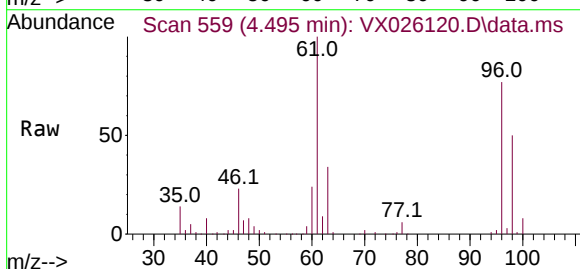
Tgt Ion: 96 Resp: 99270

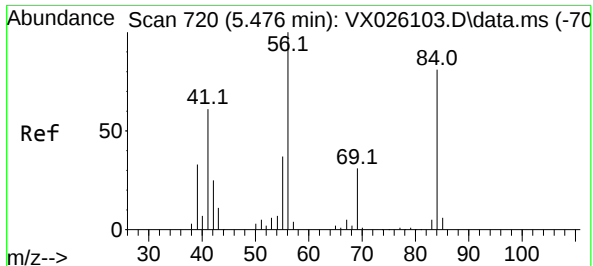
Ion Ratio Lower Upper

96 100

61 129.2 88.8 165.0

68 0.0 0.0 0.0





#29

Cyclohexane

Concen: 11.698 ug/L

RT: 5.477 min Scan# 706

Delta R.T. 0.000 min

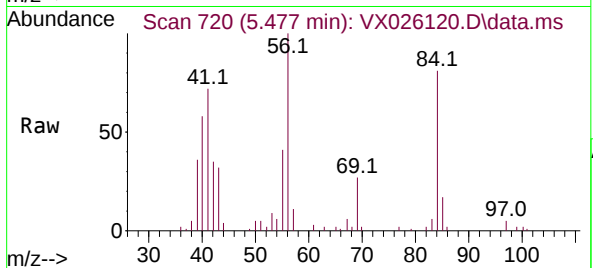
Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

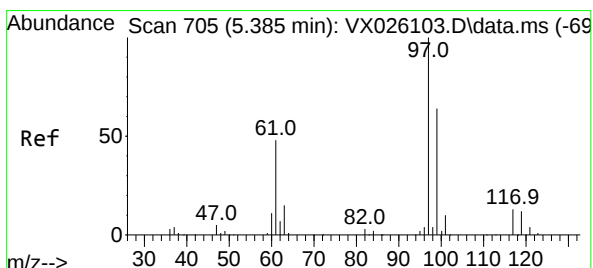
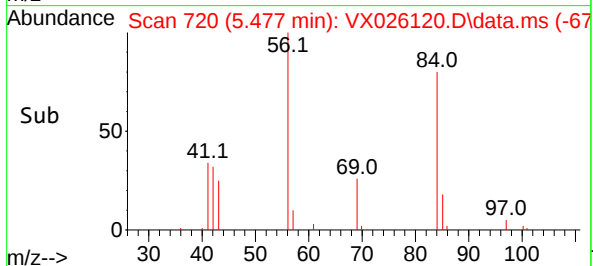
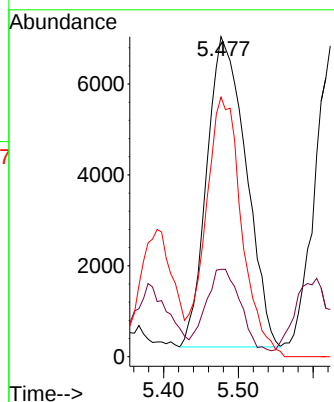
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	56	Resp:	24915
Ion	Ratio	Lower	Upper
56	100		
69	22.9	23.9	35.9#
84	76.9	69.4	104.2



#30

1,1,1-Trichloroethane

Concen: 230.624 ug/L

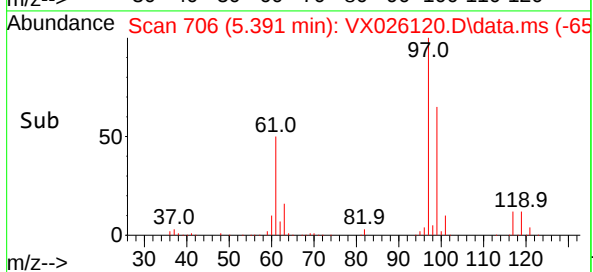
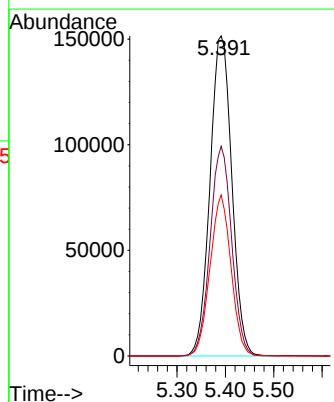
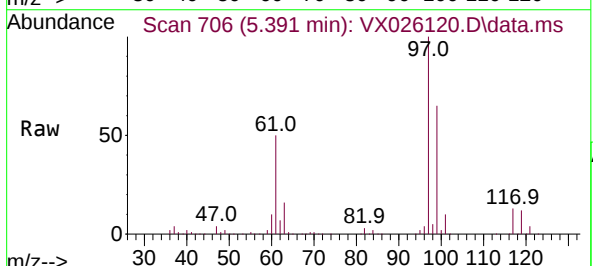
RT: 5.391 min Scan# 706

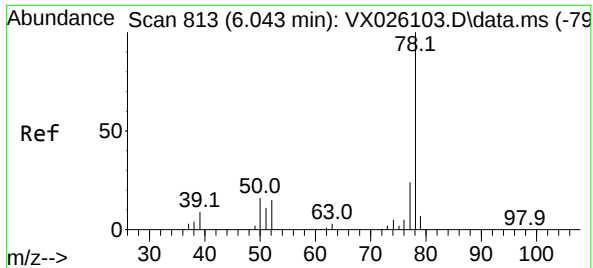
Delta R.T. 0.006 min

Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

Tgt Ion:	97	Resp:	475175
Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.6	77.4
61	48.3	38.3	57.5

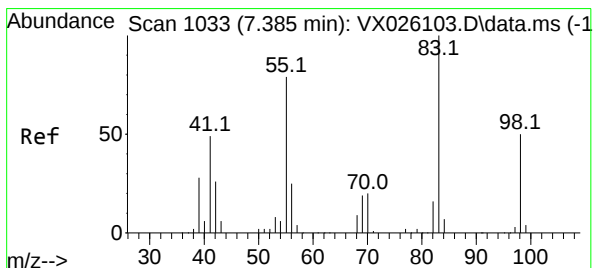
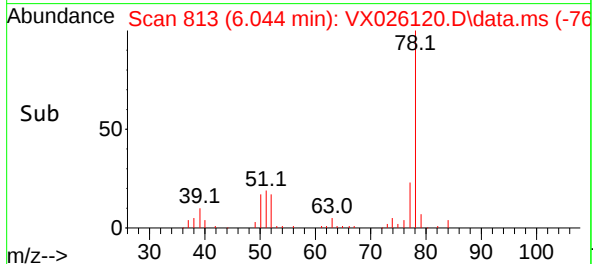
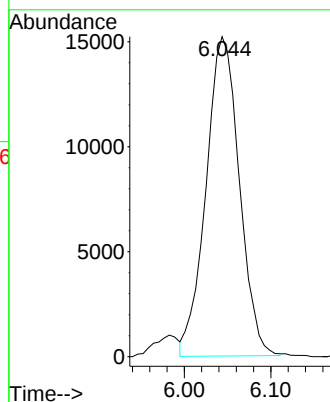
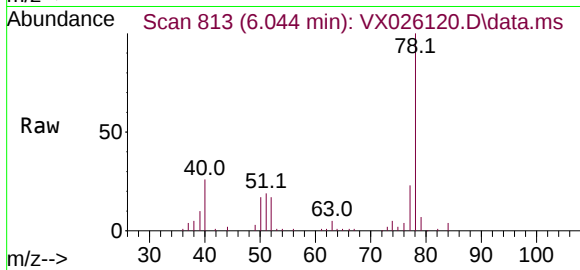




#33
Benzene
Concen: 8.139 ug/L
RT: 6.044 min Scan# 813
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

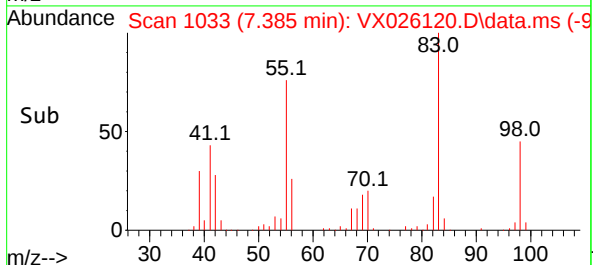
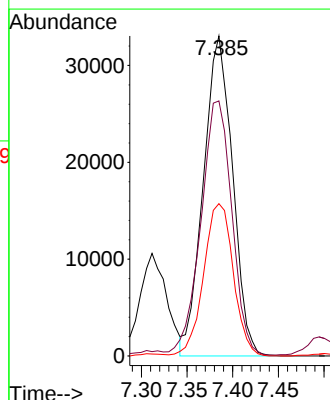
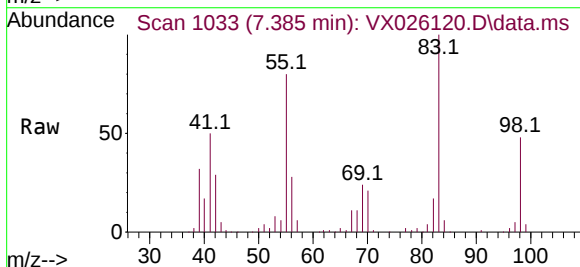
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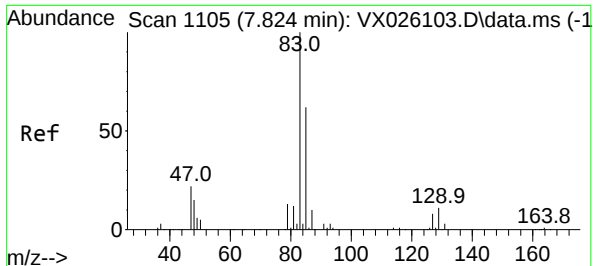
Tgt Ion: 78 Resp: 40667



#35
Methylcyclohexane
Concen: 36.132 ug/L
RT: 7.385 min Scan# 1033
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

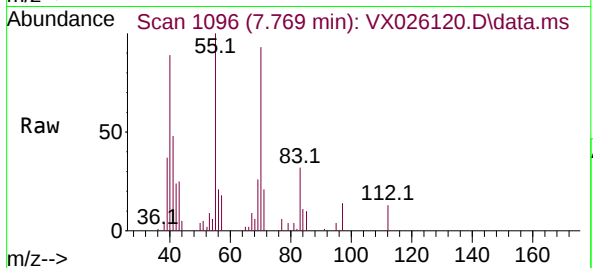
Tgt Ion: 83 Resp: 73320
Ion Ratio Lower Upper
83 100
55 84.5 62.9 94.3
98 48.4 40.6 61.0



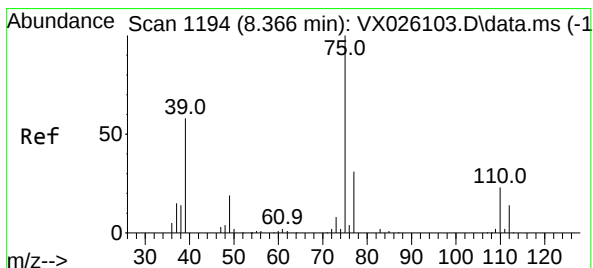
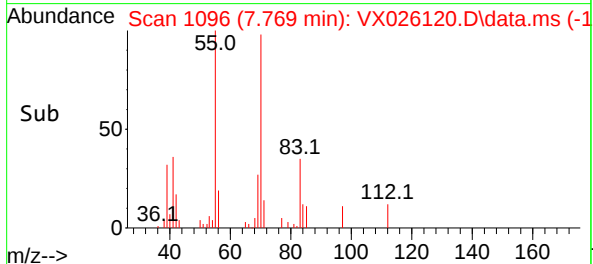
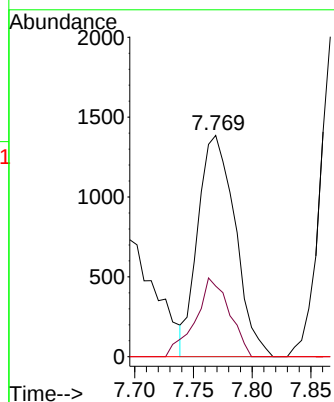


#38
Bromodichloromethane
Concen: 1.705 ug/L
RT: 7.769 min Scan# 1105
Delta R.T. -0.055 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Instrument :
MSVOA_X
ClientSampleId :

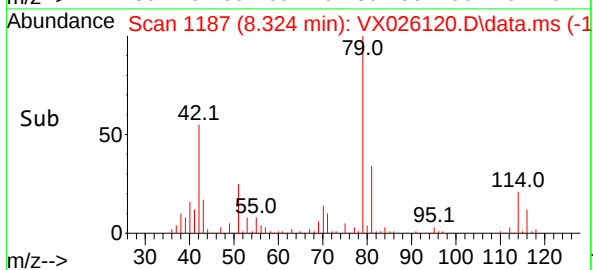
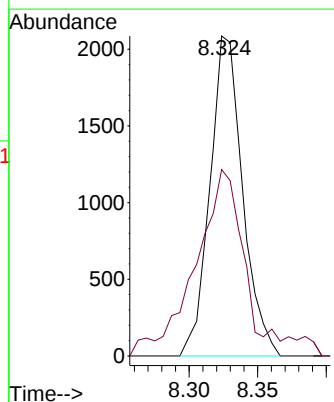
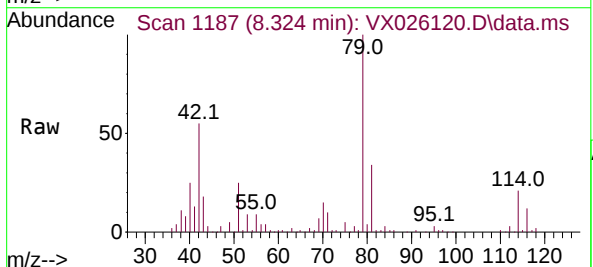


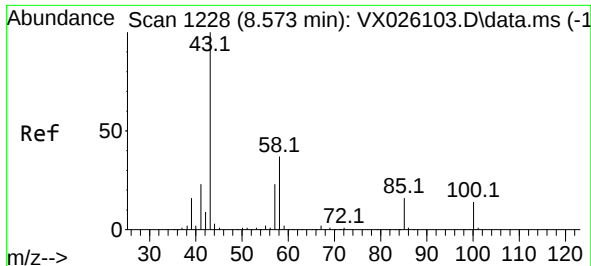
Tgt Ion: 83 Resp: 3048
Ion Ratio Lower Upper
83 100
85 31.9 44.8 83.2#
127 0.0 7.1 10.7#



#39
cis-1,3-Dichloropropene
Concen: 1.745 ug/L
RT: 8.324 min Scan# 1187
Delta R.T. -0.042 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Tgt Ion: 75 Resp: 3461
Ion Ratio Lower Upper
75 100
77 58.3 22.0 41.0#





#40

4-Methyl-2-pentanone

Concen: 2.375 ug/L

RT: 8.610 min Scan# 1234

Delta R.T. 0.037 min

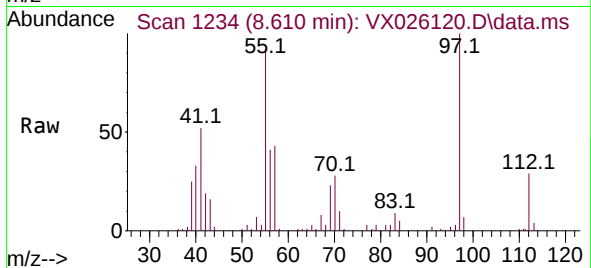
Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

Instrument :

MSVOA_X

ClientSampleId :



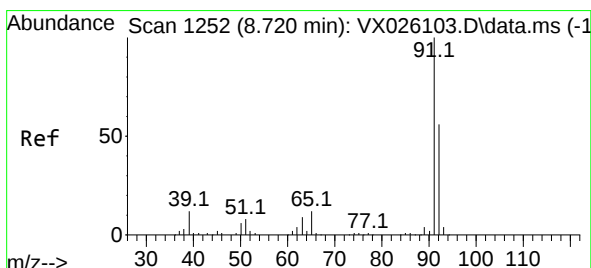
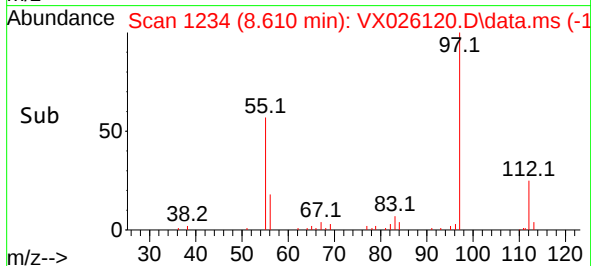
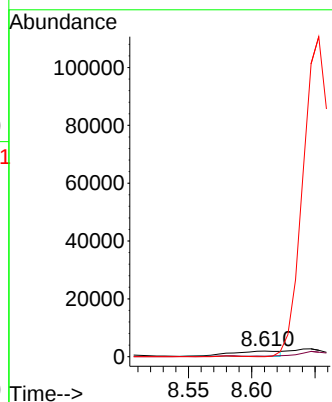
Tgt Ion: 43 Resp: 4929

Ion Ratio Lower Upper

43 100

58 2.9 29.5 44.3#

100 0.0 11.6 17.4#



#42

Toluene

Concen: 342.509 ug/L

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX026120.D

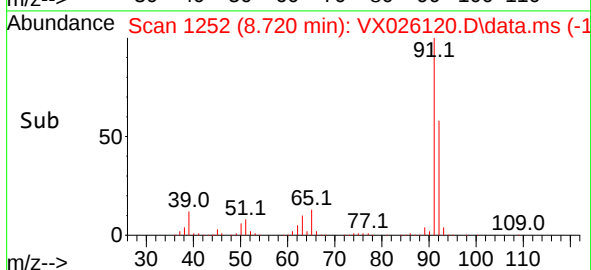
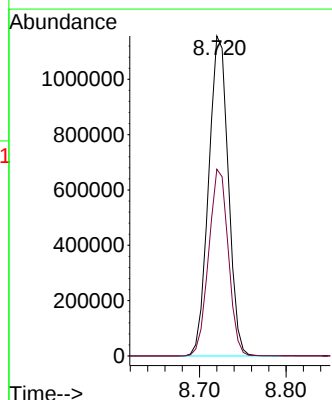
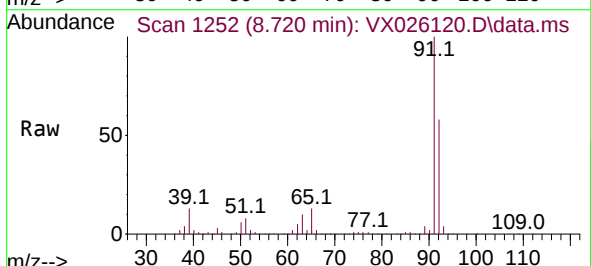
Acq: 29 Dec 2021 00:14

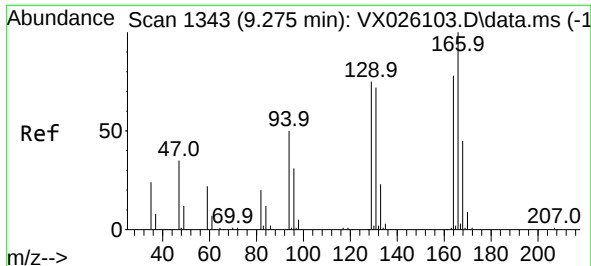
Tgt Ion: 91 Resp: 1822903

Ion Ratio Lower Upper

91 100

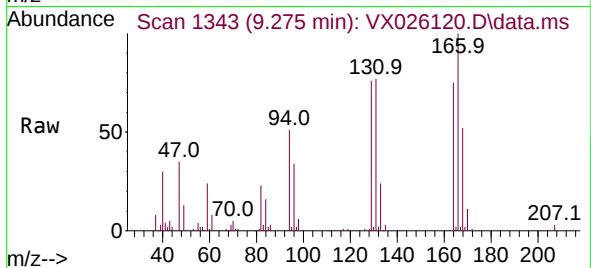
92 58.3 40.1 74.5



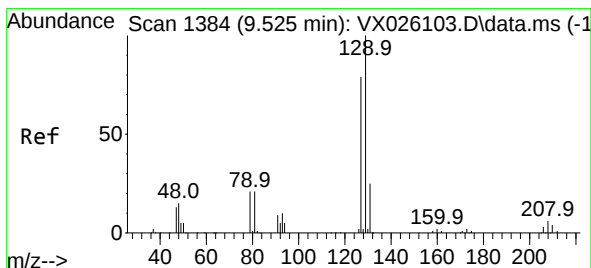
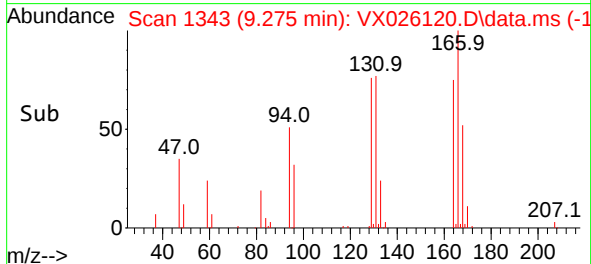
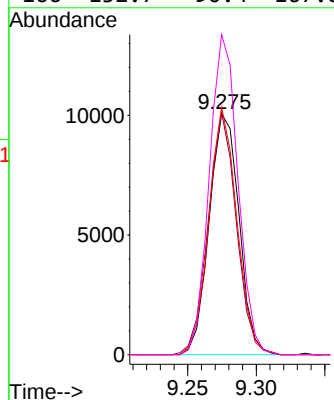


#46
Tetrachloroethene
Concen: 15.584 ug/L
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Instrument :
MSVOA_X
ClientSampleId :

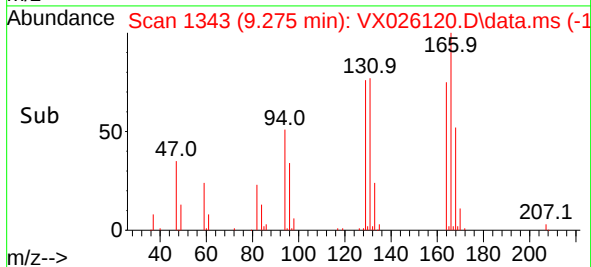
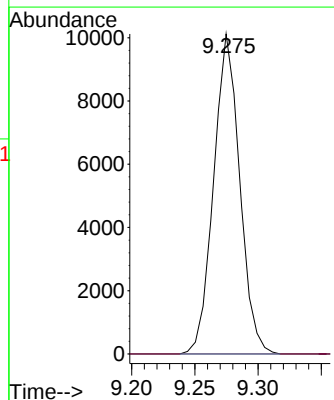
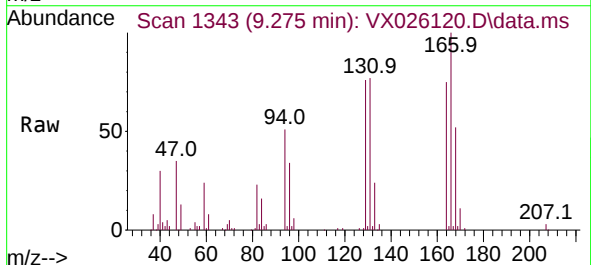


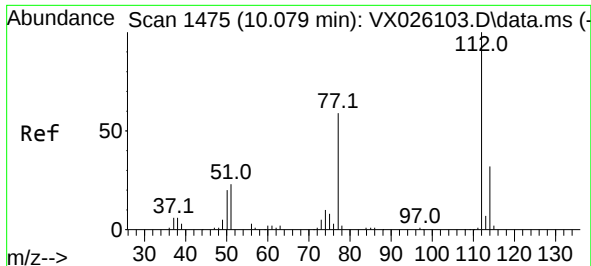
Tgt Ion:164 Resp: 15156
Ion Ratio Lower Upper
164 100
129 100.4 66.3 123.1
131 102.5 63.6 118.0
166 132.7 90.4 167.8



#49
Dibromochloromethane
Concen: 10.340 ug/L
RT: 9.275 min Scan# 1343
Delta R.T. -0.250 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Tgt Ion:129 Resp: 14485
Ion Ratio Lower Upper
129 100
127 0.0 54.0 100.2#

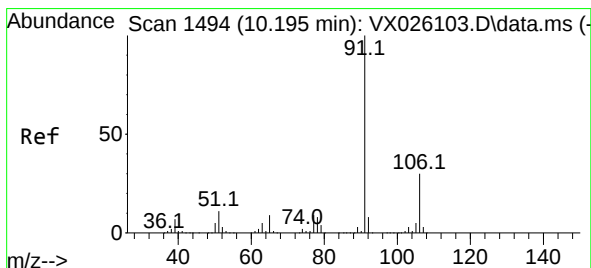
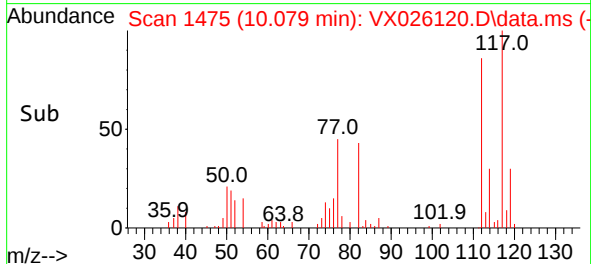
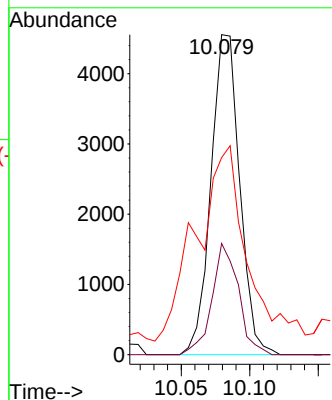
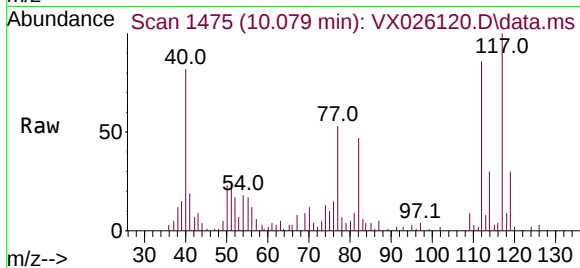




#51
Chlorobenzene
Concen: 2.026 ug/L
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

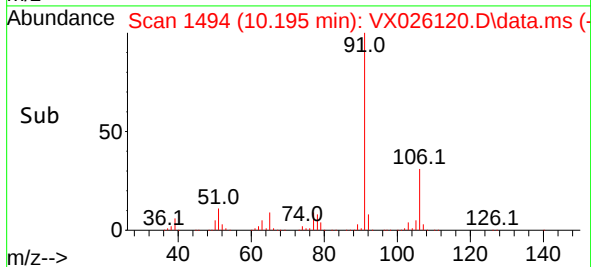
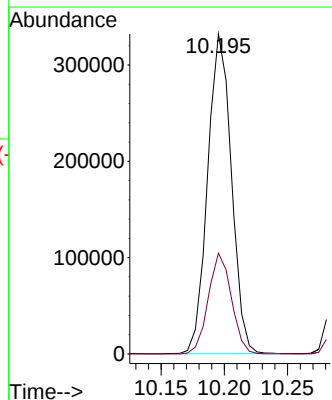
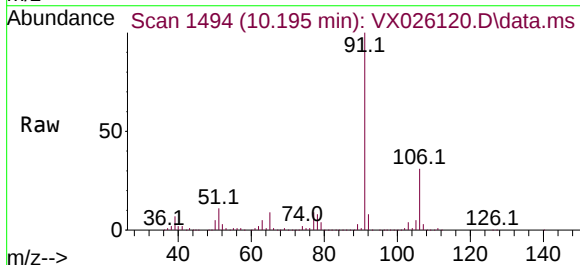
Instrument :
MSVOA_X
ClientSampleId :

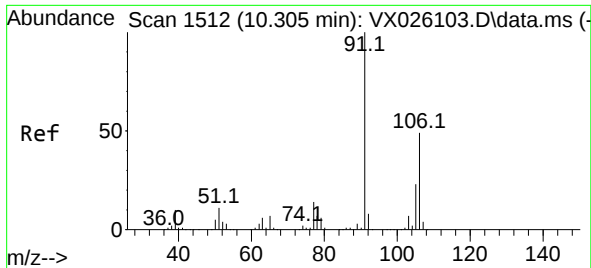
Tgt Ion:112 Resp: 6649
Ion Ratio Lower Upper
112 100
114 34.7 22.2 41.2
77 61.6 47.8 71.8



#52
Ethylbenzene
Concen: 77.558 ug/L
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Tgt Ion: 91 Resp: 433916
Ion Ratio Lower Upper
91 100
106 31.5 21.5 39.9

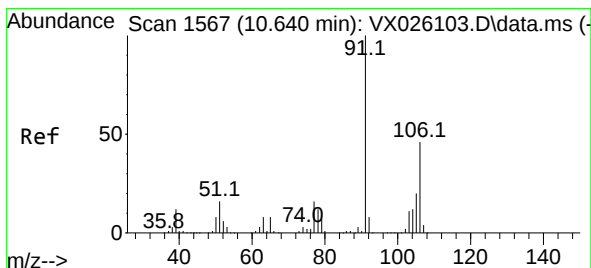
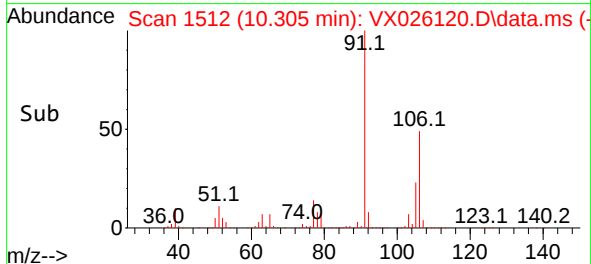
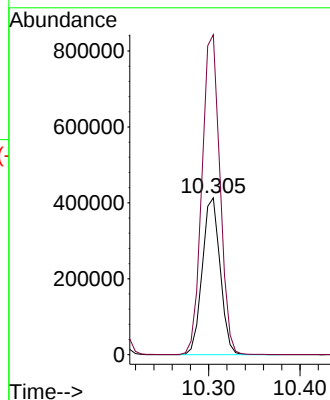
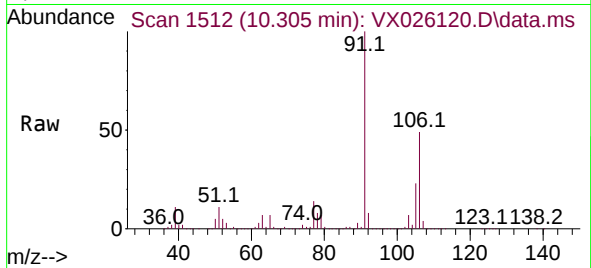




#53
m,p-Xylene
Concen: 262.138 ug/L
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

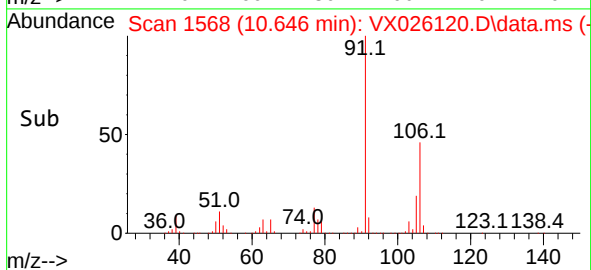
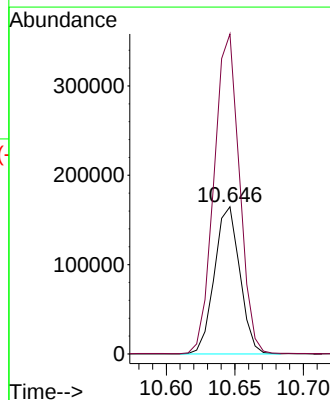
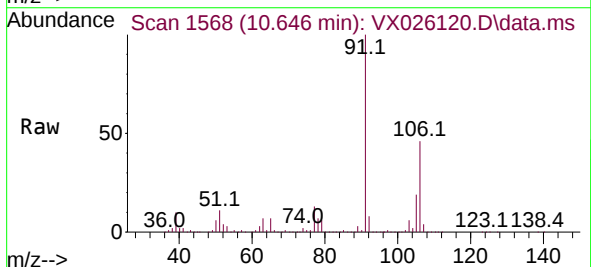
Instrument :
MSVOA_X
ClientSampleId :

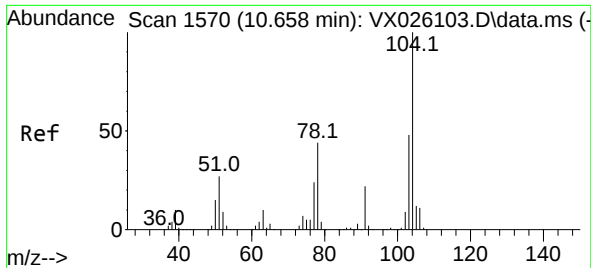
Tgt Ion:106 Resp: 559741
Ion Ratio Lower Upper
106 100
91 204.1 139.7 259.5



#54
o-Xylene
Concen: 102.307 ug/L
RT: 10.646 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Tgt Ion:106 Resp: 212212
Ion Ratio Lower Upper
106 100
91 217.4 149.1 276.9

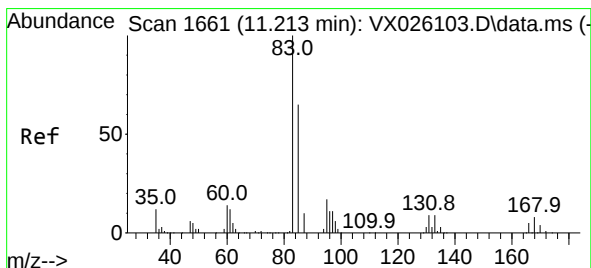
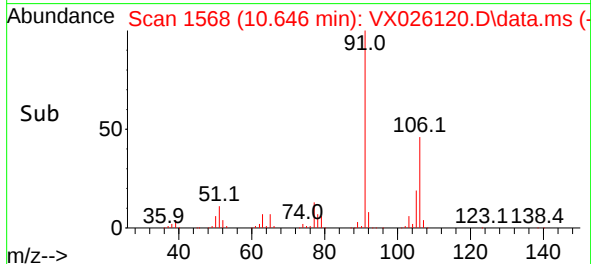
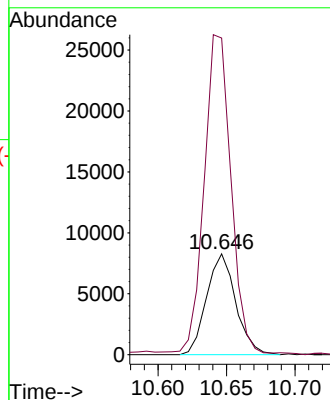
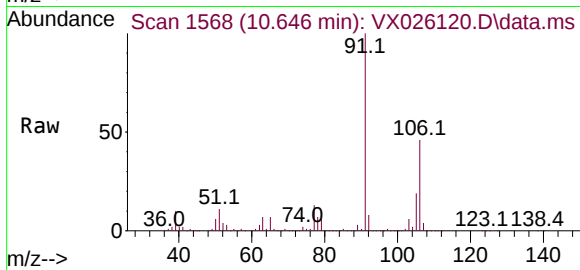




#55
Styrene
Concen: 3.437 ug/L
RT: 10.646 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

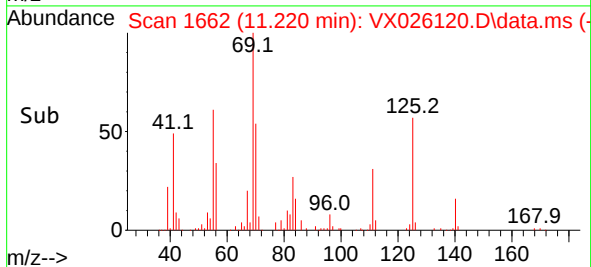
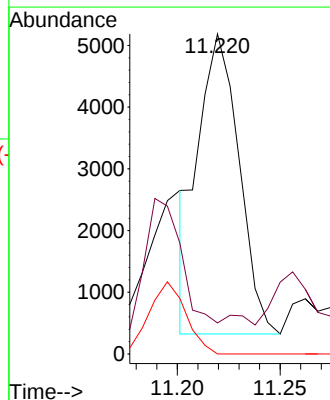
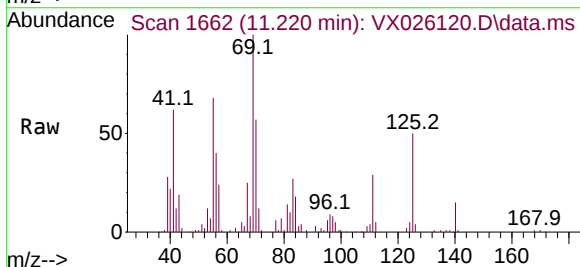
Instrument :
MSVOA_X
ClientSampleId :

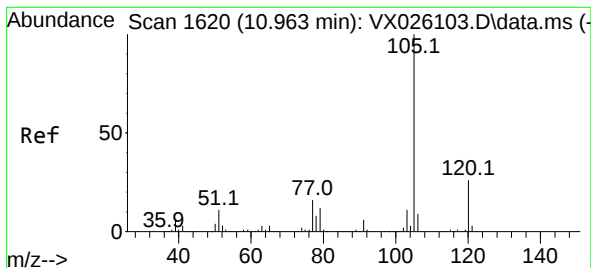
Tgt Ion:104 Resp: 12238
Ion Ratio Lower Upper
104 100
78 314.4 30.2 56.0#



#57
1,1,2,2-Tetrachloroethane
Concen: 3.491 ug/L
RT: 11.220 min Scan# 1662
Delta R.T. 0.006 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Tgt Ion: 83 Resp: 6729
Ion Ratio Lower Upper
83 100
85 9.7 45.5 84.5#
131 0.0 7.9 11.9#





#60

Isopropylbenzene

Concen: 13.514 ug/L

RT: 10.963 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX026120.D

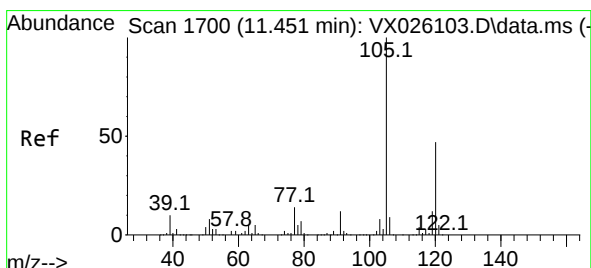
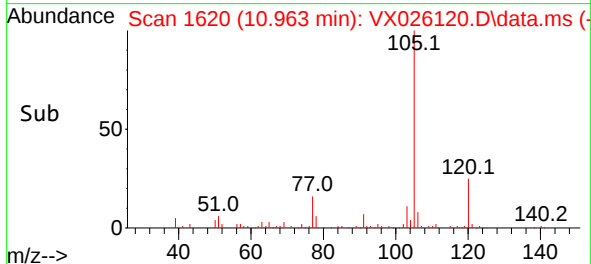
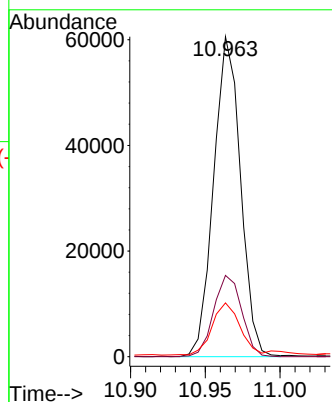
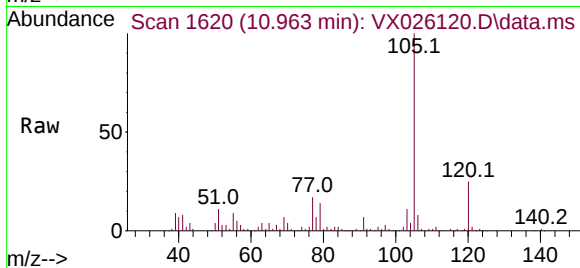
Acq: 29 Dec 2021 00:14

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:105	Resp:	75692
Ion Ratio	Lower	Upper
105	100	
120	26.4	21.2 31.8
77	16.5	13.2 19.8



#62

1,3,5-Trimethylbenzene

Concen: 50.936 ug/L

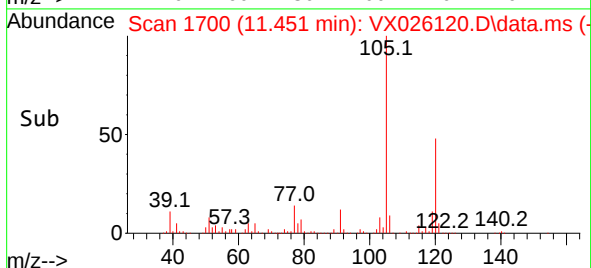
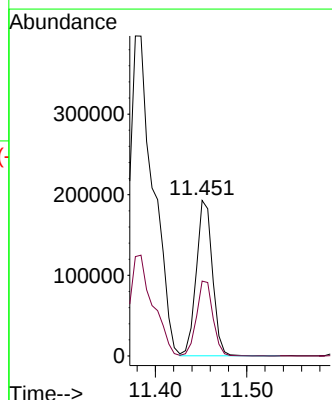
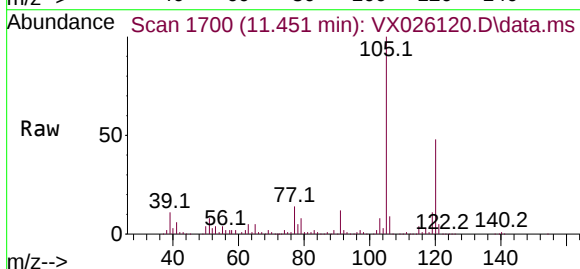
RT: 11.451 min Scan# 1700

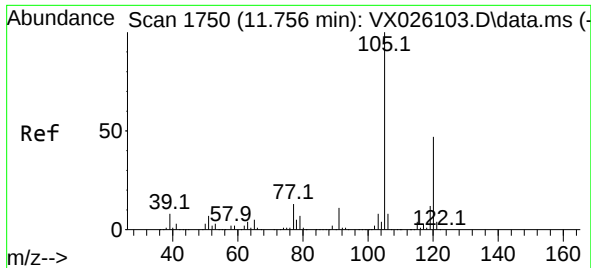
Delta R.T. 0.000 min

Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

Tgt Ion:105	Resp:	237542
Ion Ratio	Lower	Upper
105	100	
120	48.7	38.3 57.5

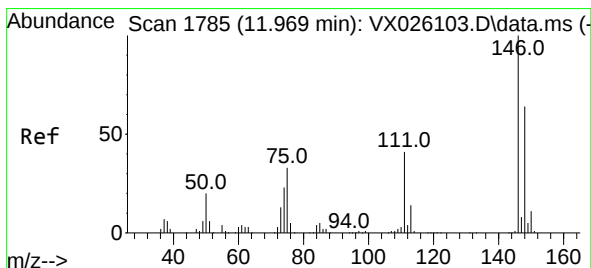
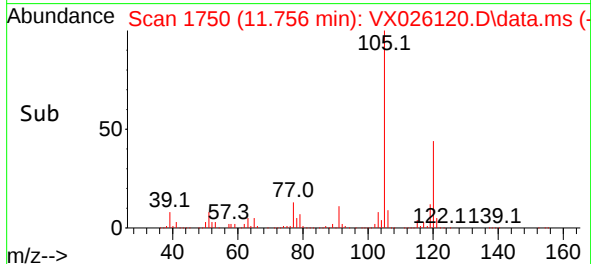
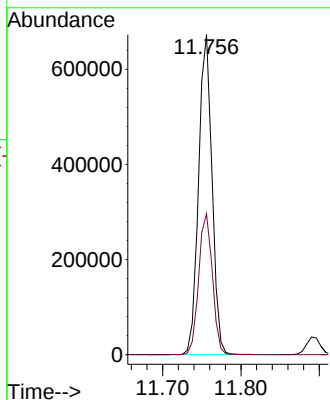
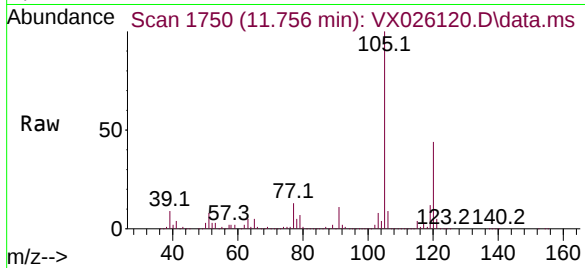




#63
1,2,4-Trimethylbenzene
Concen: 170.431 ug/L
RT: 11.756 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

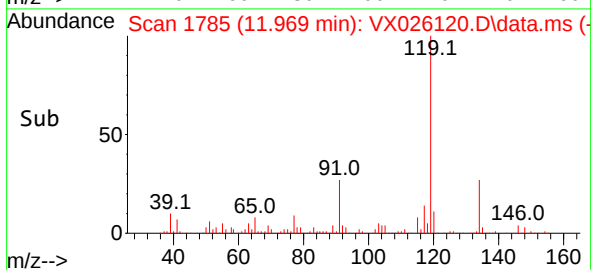
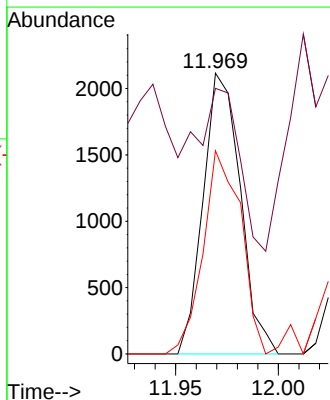
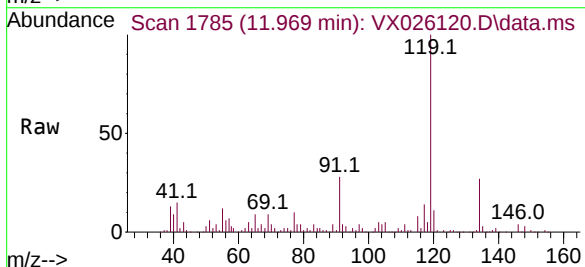
Instrument :
MSVOA_X
ClientSampleId :

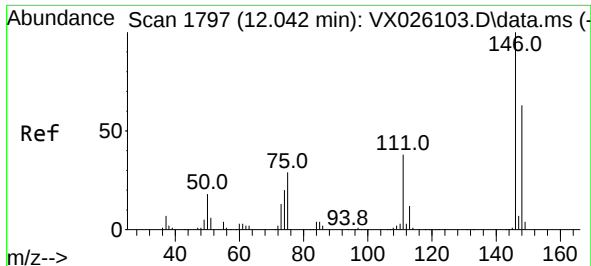
Tgt Ion:105 Resp: 801388
Ion Ratio Lower Upper
105 100
120 44.8 36.5 54.7



#64
1,3-Dichlorobenzene
Concen: 1.087 ug/L
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Tgt Ion:146 Resp: 2660
Ion Ratio Lower Upper
146 100
111 94.6 29.4 54.6#
148 72.4 45.1 83.9





#65

1,4-Dichlorobenzene

Concen: 3.297 ug/L

RT: 12.043 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX026120.D

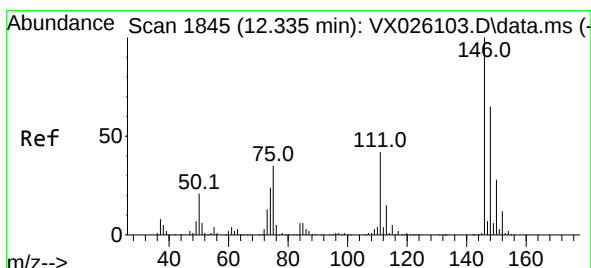
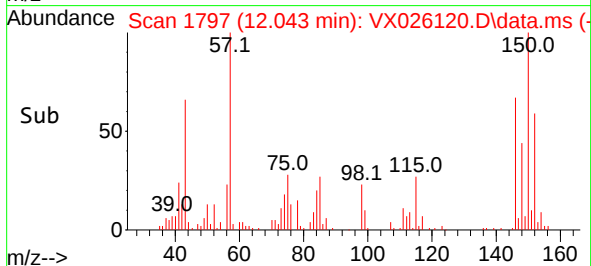
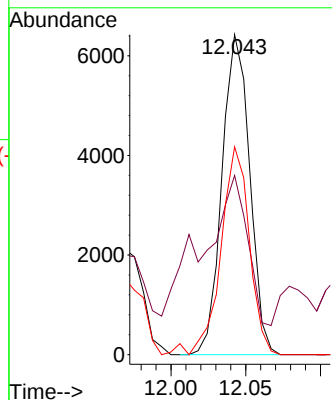
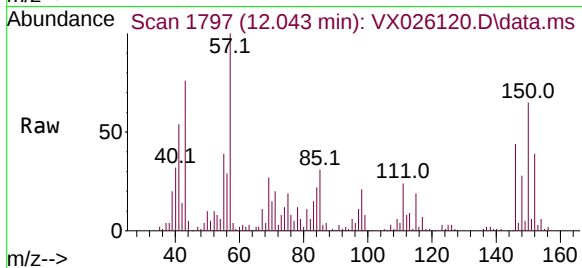
Acq: 29 Dec 2021 00:14

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:146 Resp: 8265
 Ion Ratio Lower Upper
 146 100
 111 56.0 27.4 51.0#
 148 64.9 44.3 82.3



#67

1,2-Dichlorobenzene

Concen: 10.209 ug/L

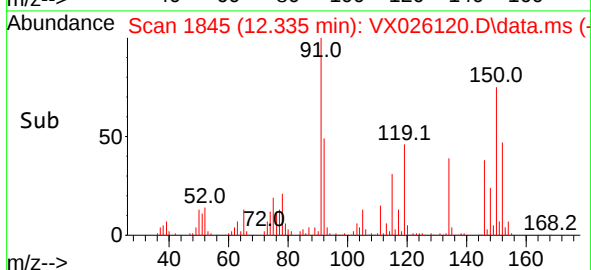
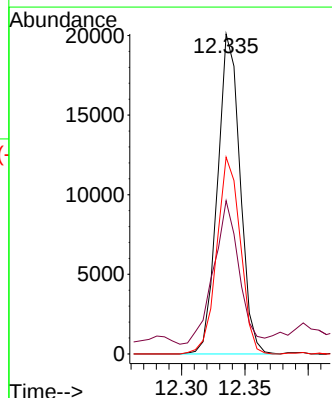
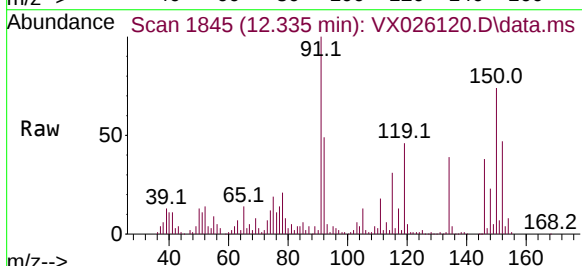
RT: 12.335 min Scan# 1845

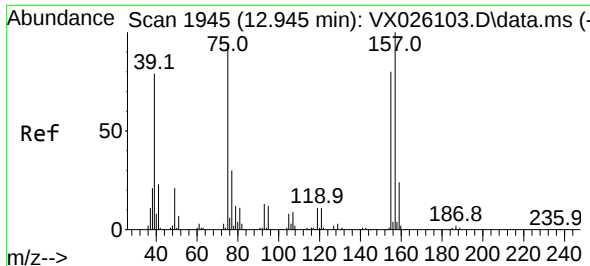
Delta R.T. 0.000 min

Lab File: VX026120.D

Acq: 29 Dec 2021 00:14

Tgt Ion:146 Resp: 24882
 Ion Ratio Lower Upper
 146 100
 111 47.9 33.1 49.7
 148 61.5 49.6 74.4

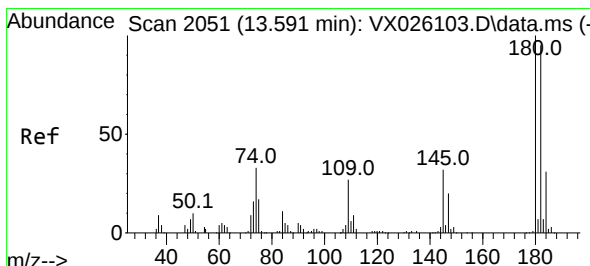
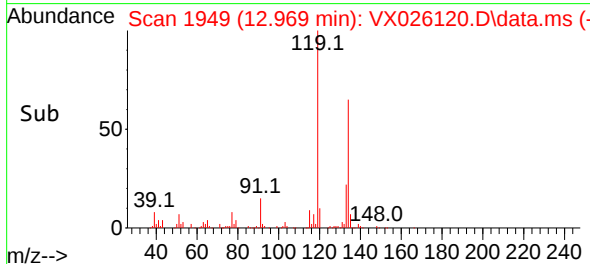
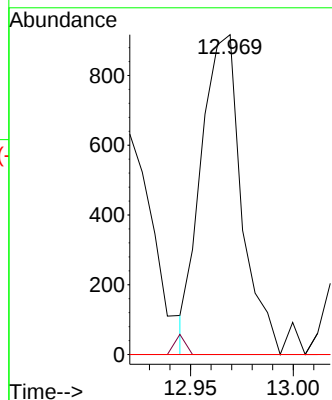
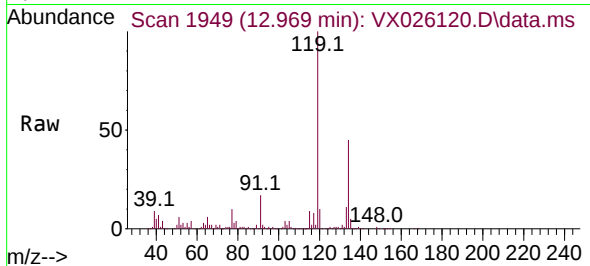




#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.649 ug/L
 RT: 12.969 min Scan# 1949
 Delta R.T. 0.025 min
 Lab File: VX026120.D
 Acq: 29 Dec 2021 00:14

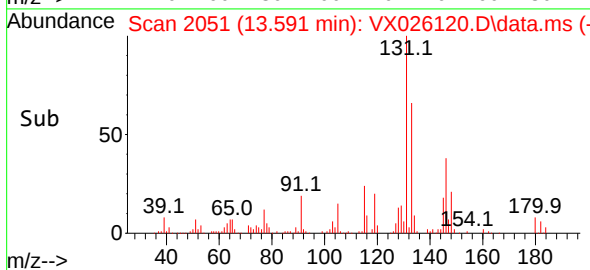
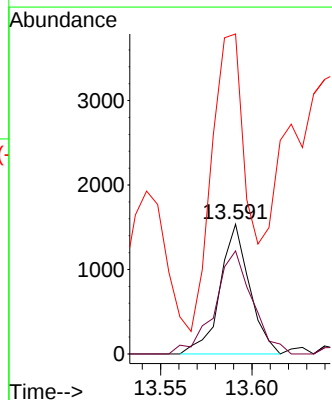
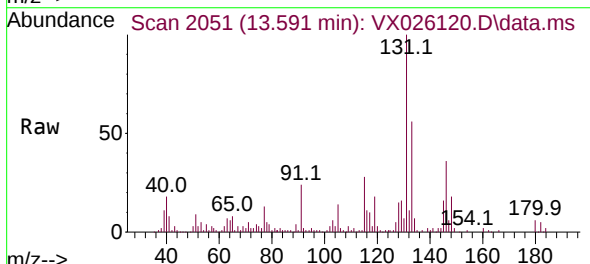
Instrument :
 MSVOA_X
 ClientSampleId :

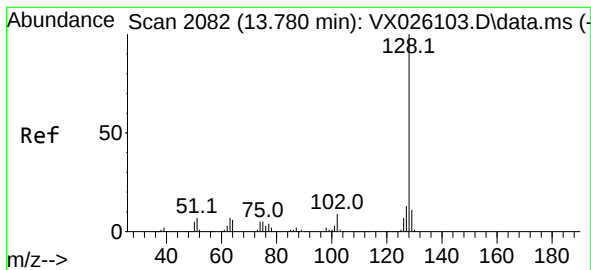
Tgt Ion: 75 Resp: 1261
 Ion Ratio Lower Upper
 75 100
 155 0.0 65.5 98.3#
 157 0.0 85.9 128.9#



#70
 1,2,4-trichlorobenzene
 Concen: 1.155 ug/L
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.000 min
 Lab File: VX026120.D
 Acq: 29 Dec 2021 00:14

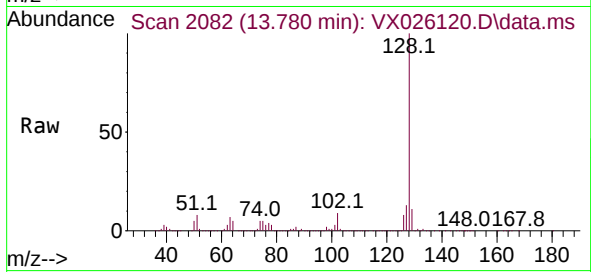
Tgt Ion:180 Resp: 1728
 Ion Ratio Lower Upper
 180 100
 182 100.5 74.8 112.2
 145 285.1 24.9 37.3#





#71
Naphthalene
Concen: 42.624 ug/L
RT: 13.780 min Scan# 2082
Delta R.T. 0.000 min
Lab File: VX026120.D
Acq: 29 Dec 2021 00:14

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:128 Resp: 239927
Ion Ratio Lower Upper
128 100
127 12.6 10.4 15.6
129 11.9 8.6 12.8

