

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042523\
 Data File : VX035296.D
 Acq On : 25 Apr 2023 20:05
 Operator : JC/MD
 Sample : 02429-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 230419084-02-VOA

Quant Time: Apr 26 01:45:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X042523W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 16:31:40 2023
 Response via : Initial Calibration

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

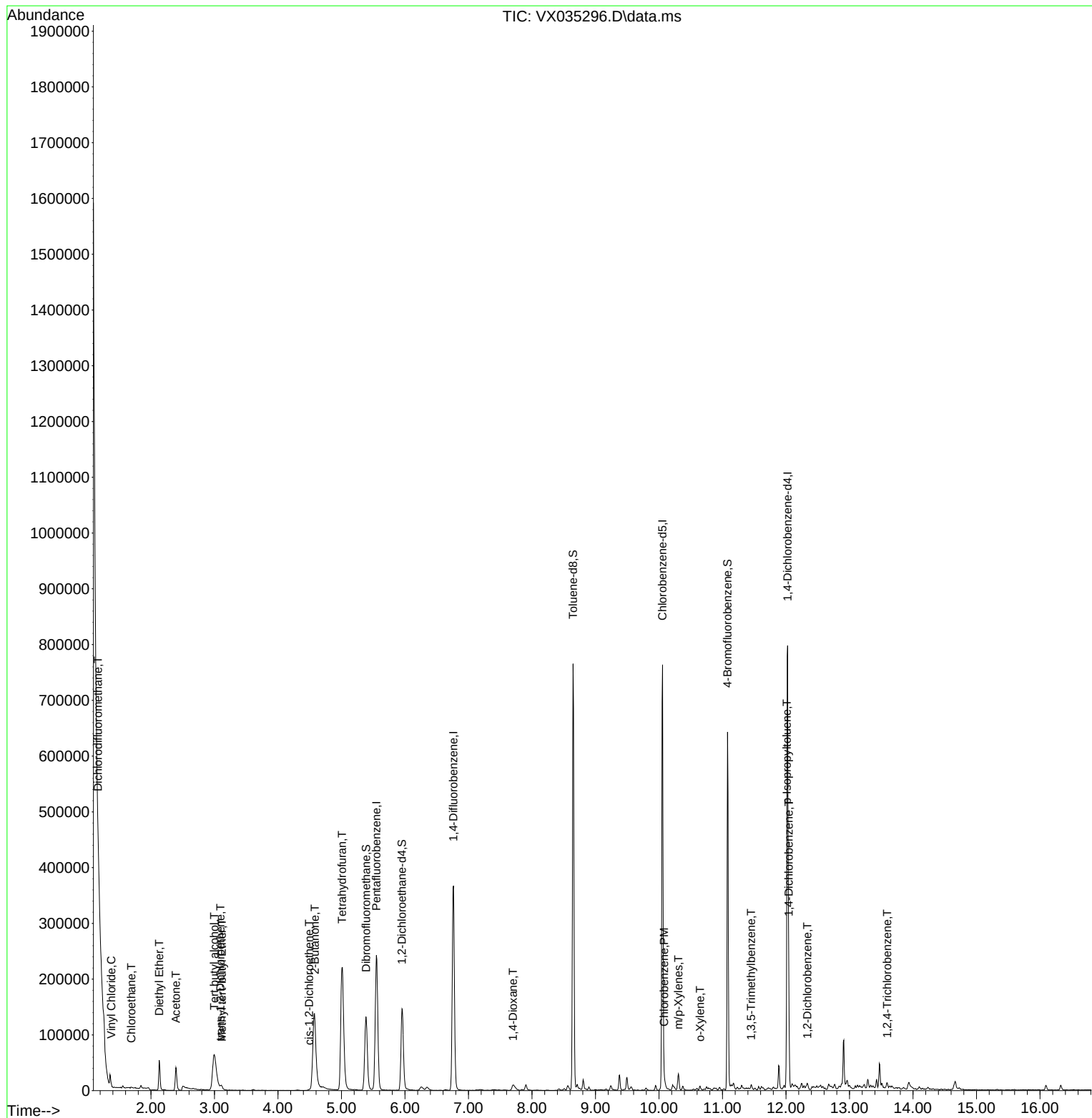
Internal Standards						
1) Pentafluorobenzene	5.550	168	236589	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	387940	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	350482	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	169634	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	143432	50.251	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	100.500%
35) Dibromofluoromethane	5.385	113	117109	49.184	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.360%
50) Toluene-d8	8.647	98	456251	50.795	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	101.600%
62) 4-Bromofluorobenzene	11.079	95	171608	50.788	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.580%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	1132	0.452	ug/l	92
4) Vinyl Chloride	1.374	62	868	0.380	ug/l #	71
6) Chloroethane	1.691	64	1204	0.901	ug/l	90
8) Diethyl Ether	2.130	74	17762	13.639	ug/l	99
11) Tert butyl alcohol	2.995	59	153002	294.398	ug/l	100
16) Acetone	2.392	43	10862	8.762	ug/l	98
19) Methyl tert-butyl Ether	3.117	73	6186	0.785	ug/l	91
21) trans-1,2-Dichloroethene	3.093	96	512	0.205	ug/l	81
25) 2-Butanone	4.581	43	11599	6.410	ug/l #	84
27) cis-1,2-Dichloroethene	4.489	96	1214	0.414	ug/l	69
29) Tetrahydrofuran	5.007	42	227306	195.965	ug/l	97
49) 1,4-Dioxane	7.702	88	13494	197.792	ug/l	91
65) Chlorobenzene	10.080	112	5544	0.731	ug/l #	88
68) m/p-Xylenes	10.305	106	5347	1.063	ug/l	93
69) o-Xylene	10.647	106	1657	0.336	ug/l	91
80) 1,3,5-Trimethylbenzene	11.451	105	2842	0.272	ug/l	93
86) p-Isopropyltoluene	12.012	119	5799	0.530	ug/l	89
88) 1,4-Dichlorobenzene	12.043	146	62482	10.173	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	2546	0.435	ug/l	98
93) 1,2,4-Trichlorobenzene	13.591	180	759	0.206	ug/l	88

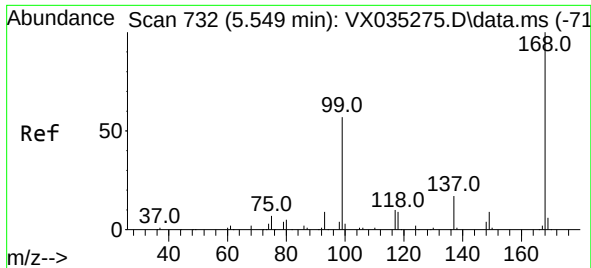
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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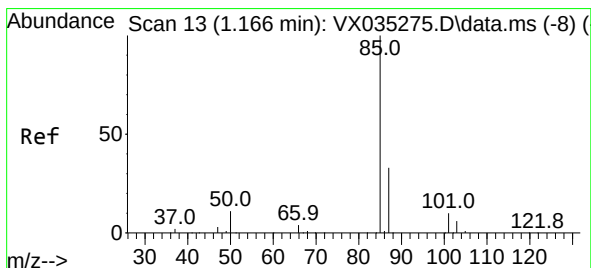
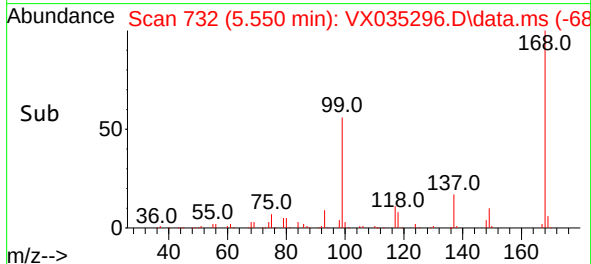
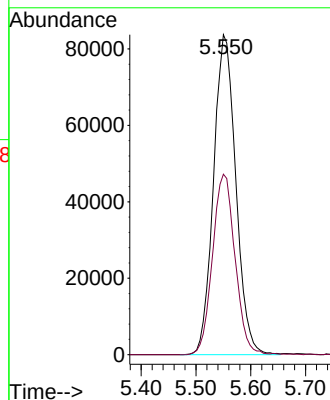
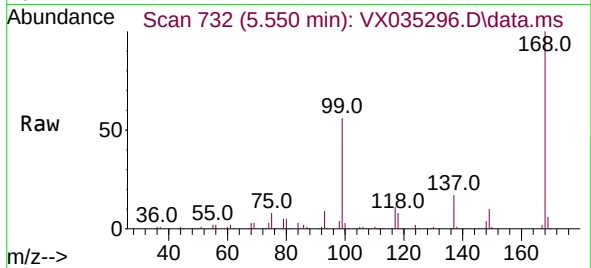




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.001 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

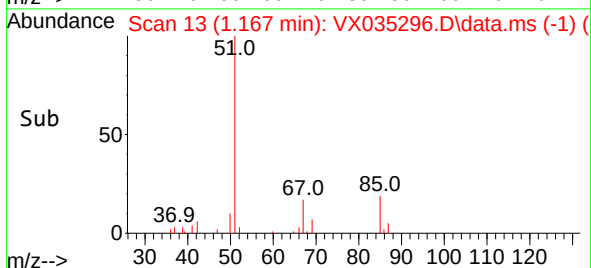
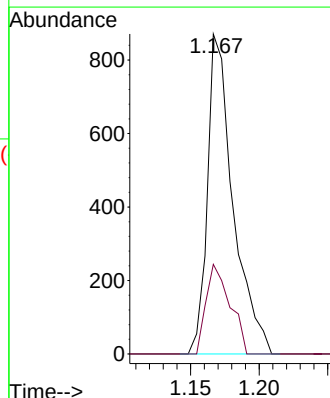
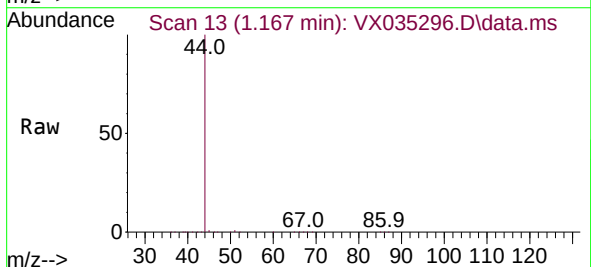
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

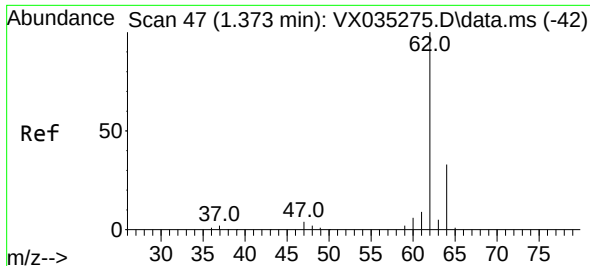
Tgt Ion:168 Resp: 236589
Ion Ratio Lower Upper
168 100
99 56.4 45.7 68.5



#2
Dichlorodifluoromethane
Concen: 0.452 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.001 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

Tgt Ion: 85 Resp: 1132
Ion Ratio Lower Upper
85 100
87 28.0 16.4 49.1

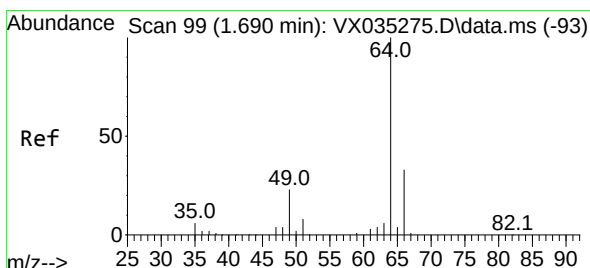
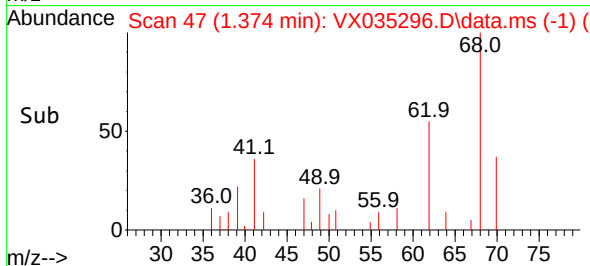
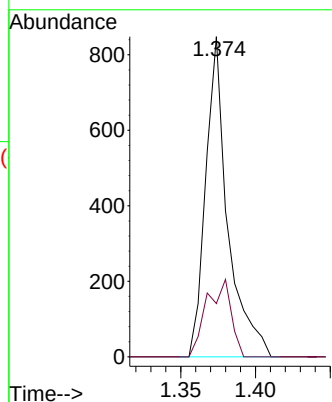
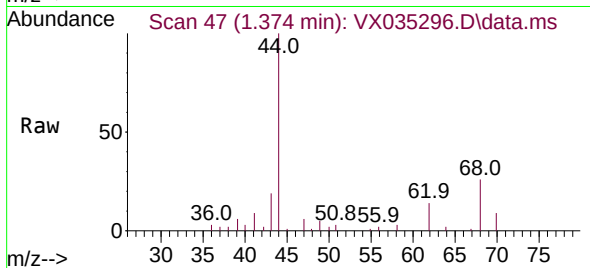




#4
 Vinyl Chloride
 Concen: 0.380 ug/l
 RT: 1.374 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VX035296.D
 Acq: 25 Apr 2023 20:05

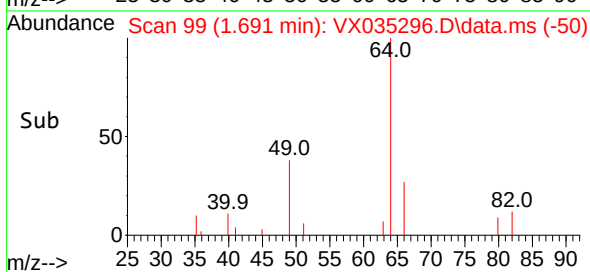
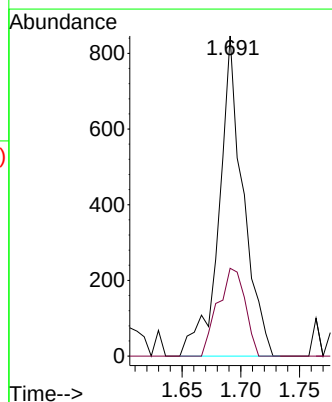
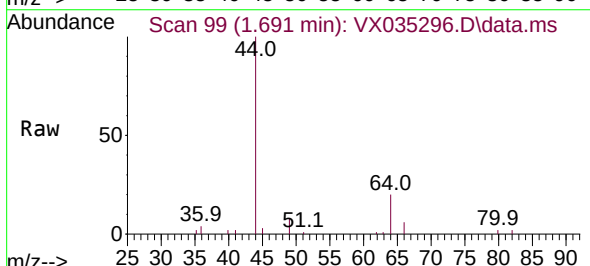
Instrument :
 MSVOA_X
 ClientSampleId :
 230419084-02-VOA

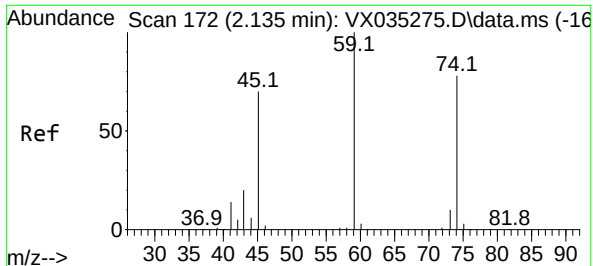
Tgt Ion: 62 Resp: 868
 Ion Ratio Lower Upper
 62 100
 64 16.6 26.4 39.6#



#6
 Chloroethane
 Concen: 0.901 ug/l
 RT: 1.691 min Scan# 99
 Delta R.T. 0.001 min
 Lab File: VX035296.D
 Acq: 25 Apr 2023 20:05

Tgt Ion: 64 Resp: 1204
 Ion Ratio Lower Upper
 64 100
 66 27.4 26.2 39.4

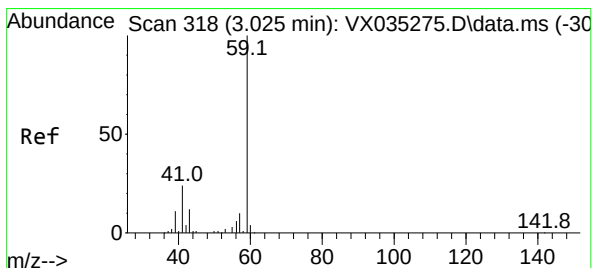
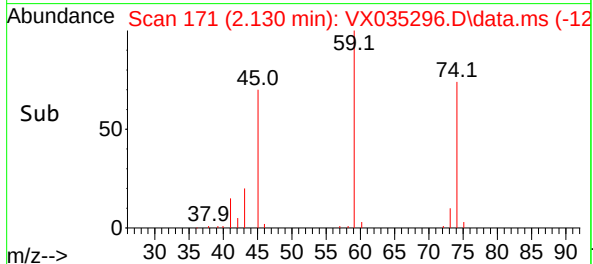
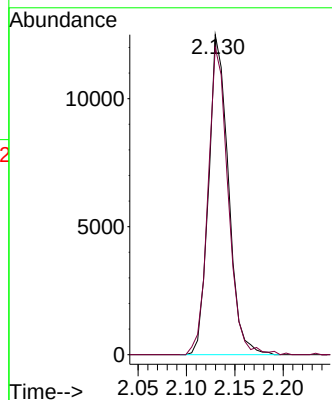
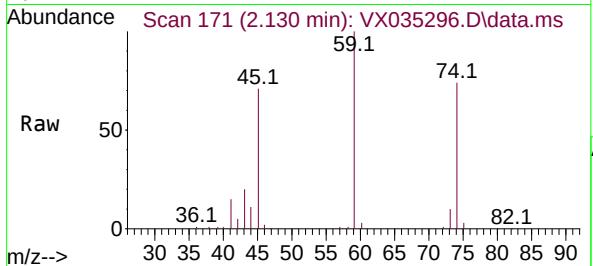




#8
Diethyl Ether
Concen: 13.639 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

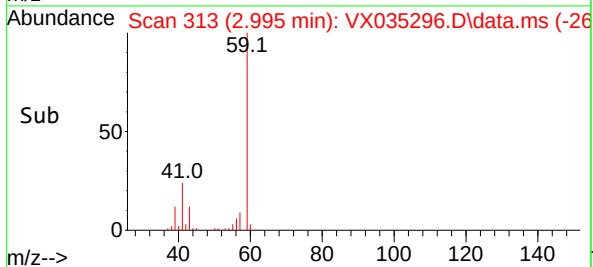
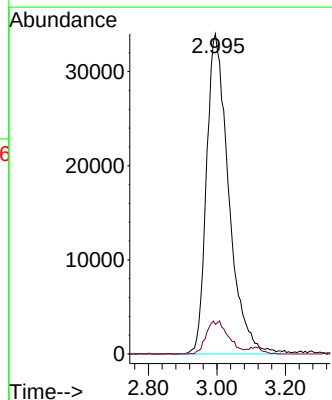
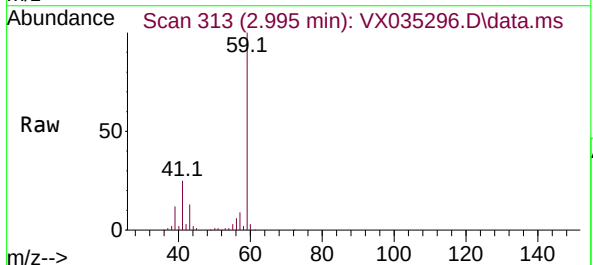
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

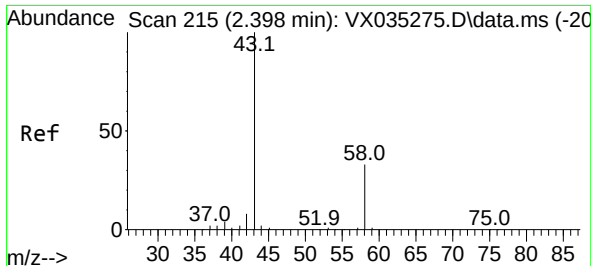
Tgt Ion: 74 Resp: 17762
Ion Ratio Lower Upper
74 100
45 98.1 49.8 149.3



#11
Tert butyl alcohol
Concen: 294.398 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.030 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

Tgt Ion: 59 Resp: 153002
Ion Ratio Lower Upper
59 100
57 10.3 8.1 12.1

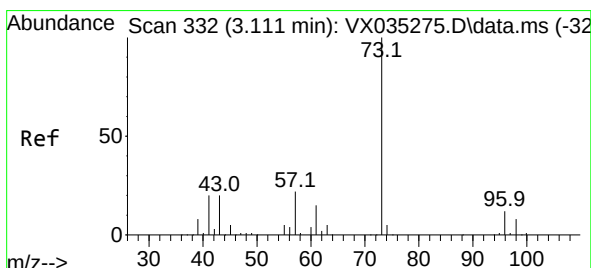
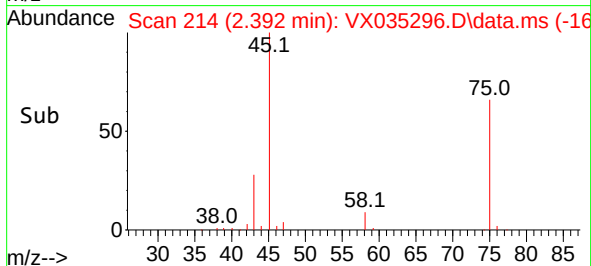
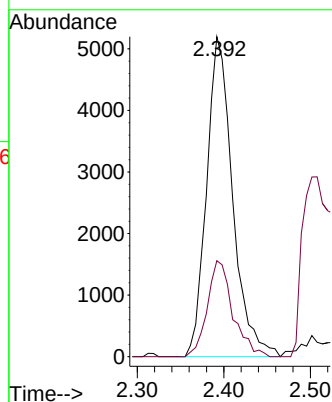
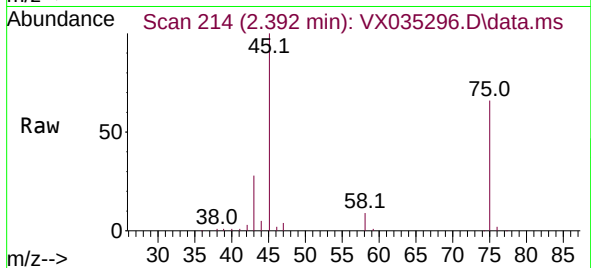




#16
Acetone
Concen: 8.762 ug/l
RT: 2.392 min Scan# 215
Delta R.T. -0.006 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

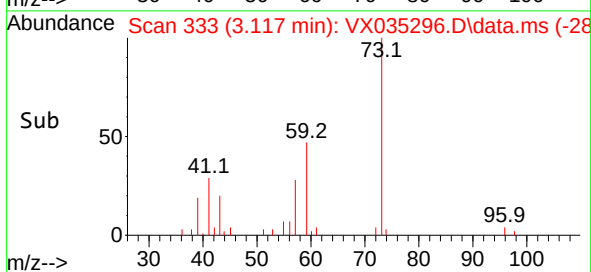
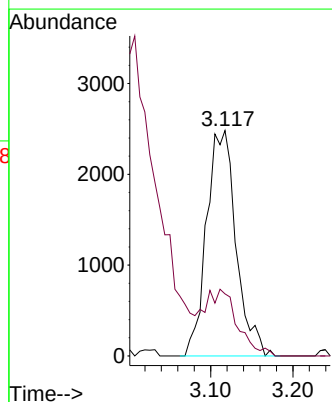
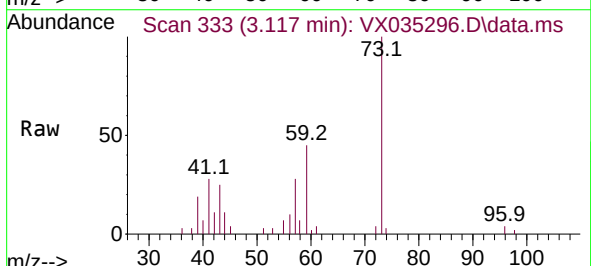
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

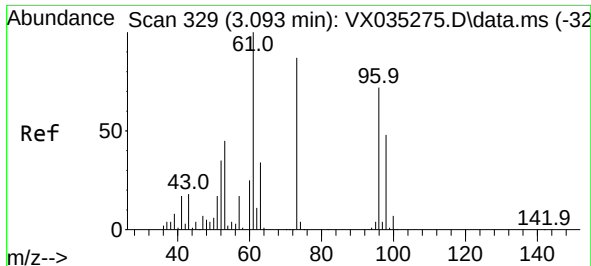
Tgt Ion: 43 Resp: 10862
Ion Ratio Lower Upper
43 100
58 30.0 24.7 37.1



#19
Methyl tert-butyl Ether
Concen: 0.785 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.007 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

Tgt Ion: 73 Resp: 6186
Ion Ratio Lower Upper
73 100
57 27.6 18.5 27.7

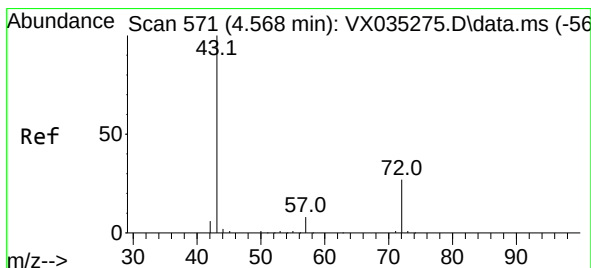
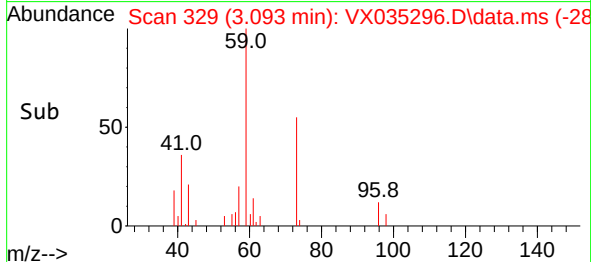
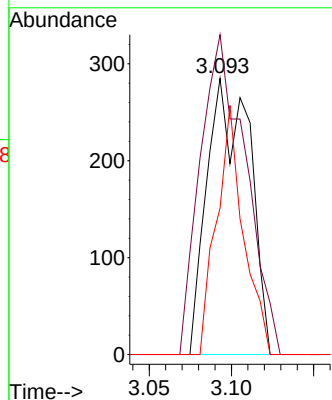
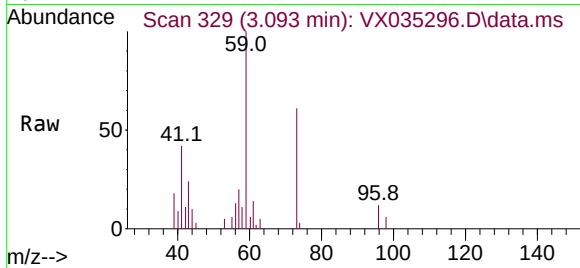




#21
trans-1,2-Dichloroethene
Concen: 0.205 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.001 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

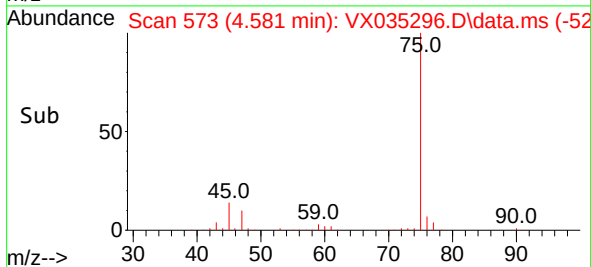
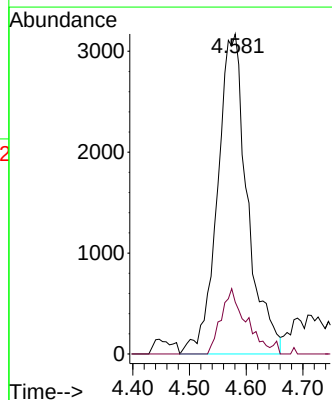
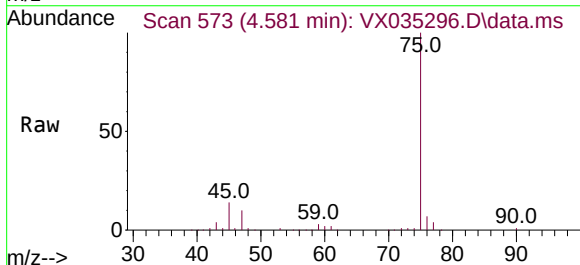
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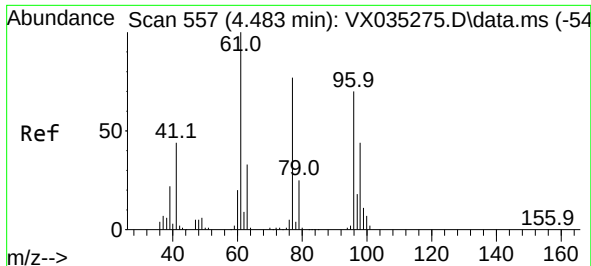
Tgt Ion: 96 Resp: 512
Ion Ratio Lower Upper
96 100
61 115.8 113.0 169.6
98 53.0 52.1 78.1



#25
2-Butanone
Concen: 6.410 ug/l
RT: 4.581 min Scan# 573
Delta R.T. 0.013 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

Tgt Ion: 43 Resp: 11599
Ion Ratio Lower Upper
43 100
72 16.2 19.3 28.9#





#27

cis-1,2-Dichloroethene

Concen: 0.414 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.007 min

Lab File: VX035296.D

Acq: 25 Apr 2023 20:05

Instrument :

MSVOA_X

ClientSampleId :

230419084-02-VOA

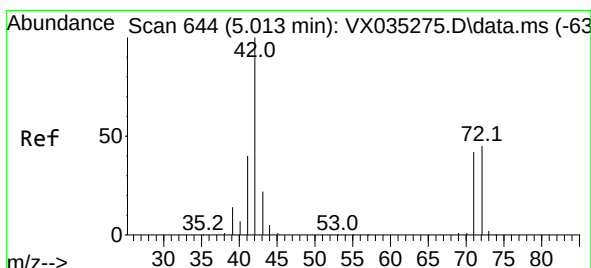
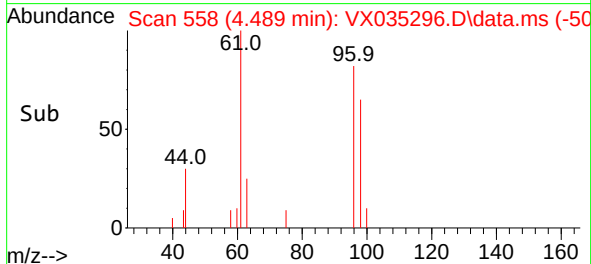
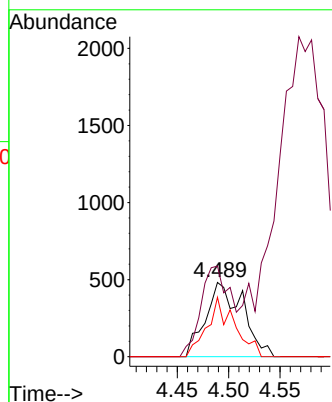
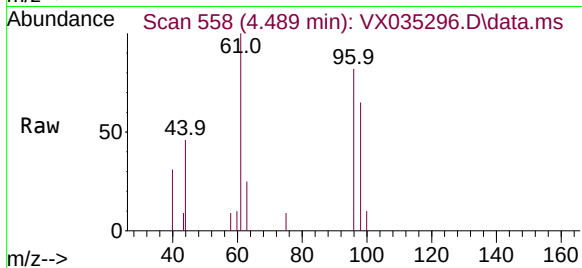
Tgt Ion: 96 Resp: 1214

Ion Ratio Lower Upper

96 100

61 97.1 0.0 300.4

98 58.9 0.0 129.0



#29

Tetrahydrofuran

Concen: 195.965 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.006 min

Lab File: VX035296.D

Acq: 25 Apr 2023 20:05

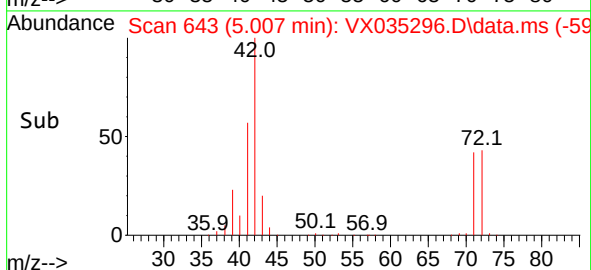
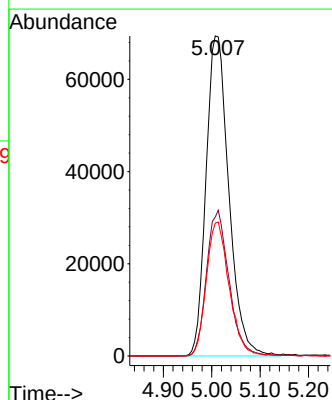
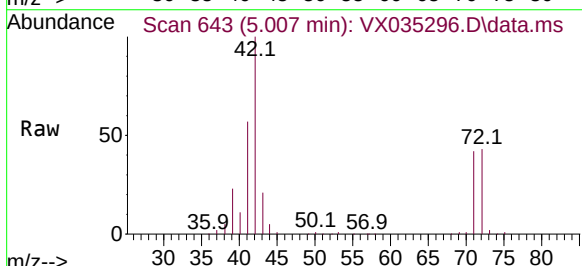
Tgt Ion: 42 Resp: 227306

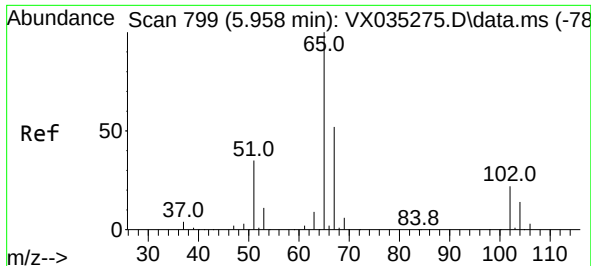
Ion Ratio Lower Upper

42 100

72 44.9 34.5 51.7

71 41.9 32.1 48.1





#33

1,2-Dichloroethane-d4

Concen: 50.251 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX035296.D

Acq: 25 Apr 2023 20:05

Instrument :

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ClientSampleId :

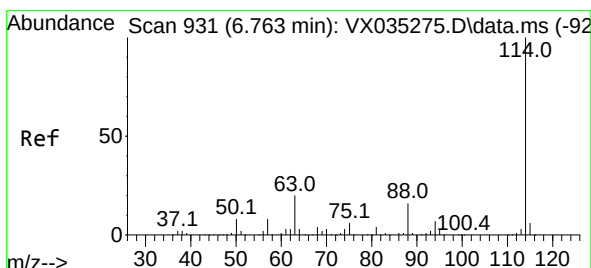
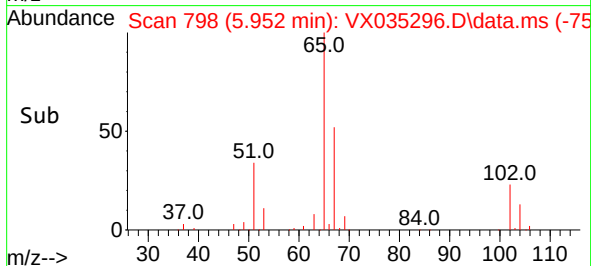
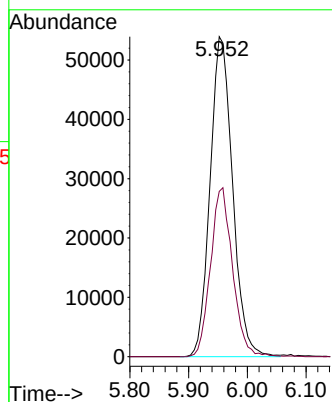
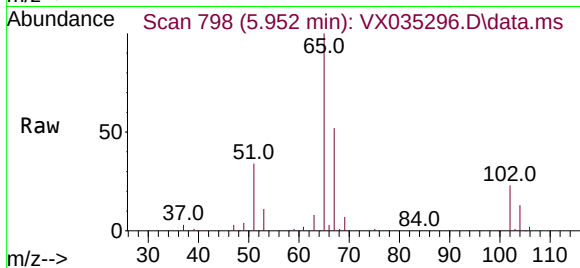
230419084-02-VOA

Tgt Ion: 65 Resp: 143432

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX035296.D

Acq: 25 Apr 2023 20:05

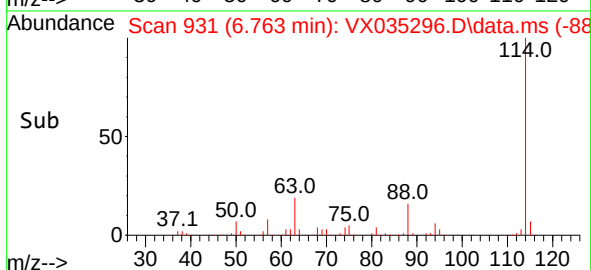
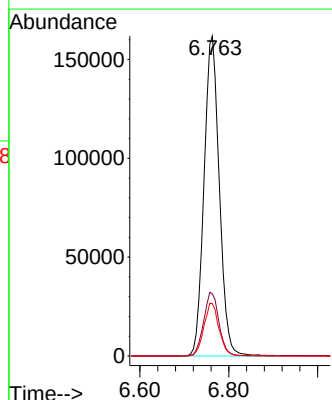
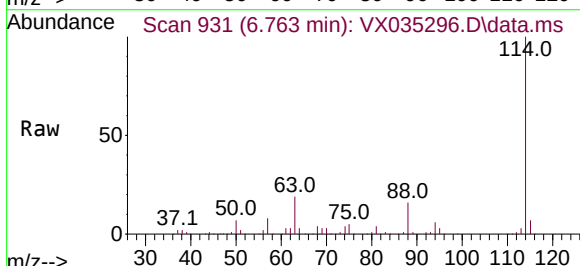
Tgt Ion: 114 Resp: 387940

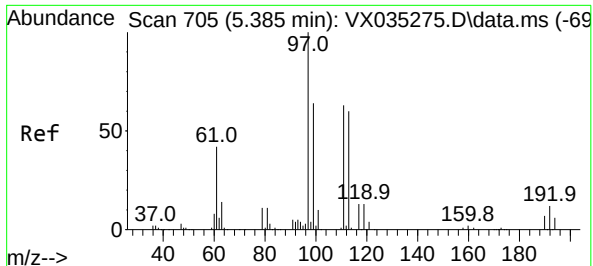
Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.2

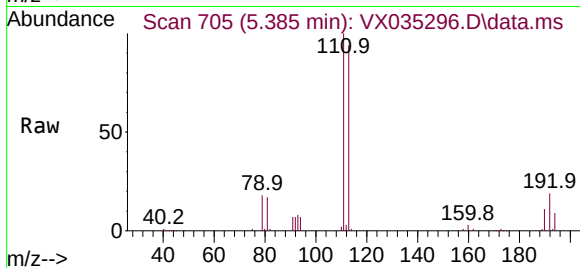
88 16.4 0.0 33.2



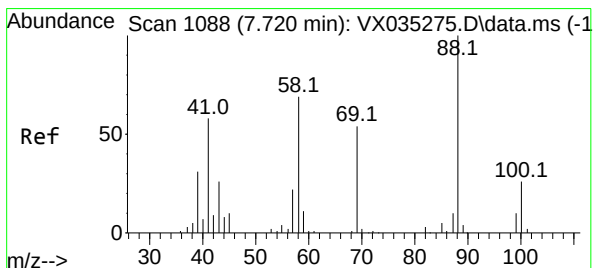
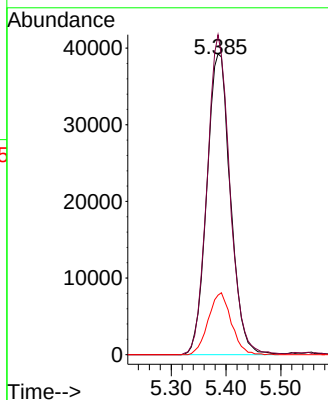
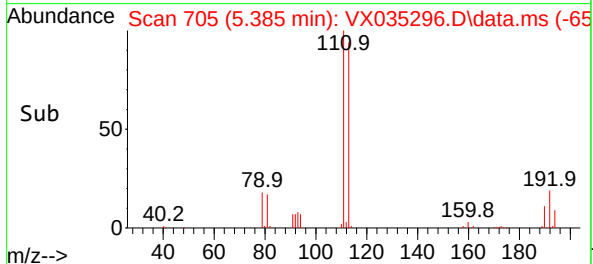


#35
Dibromofluoromethane
Concen: 49.184 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

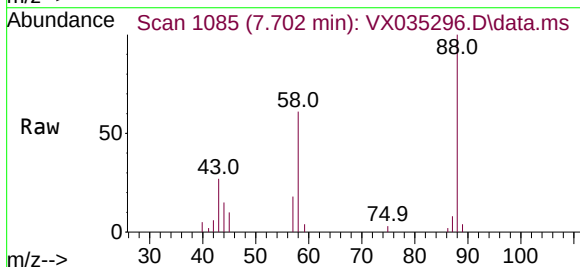
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA



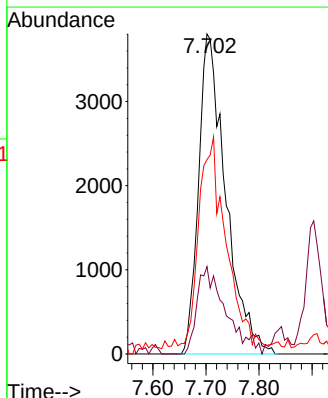
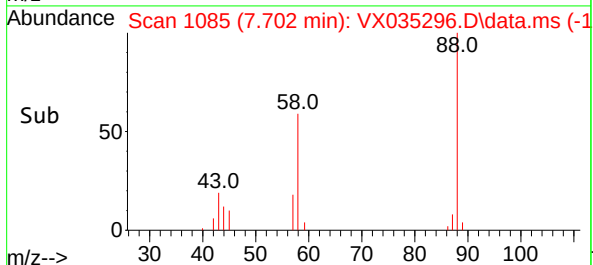
Tgt Ion:113 Resp: 117109
Ion Ratio Lower Upper
113 100
111 102.8 83.7 125.5
192 20.0 15.4 23.2

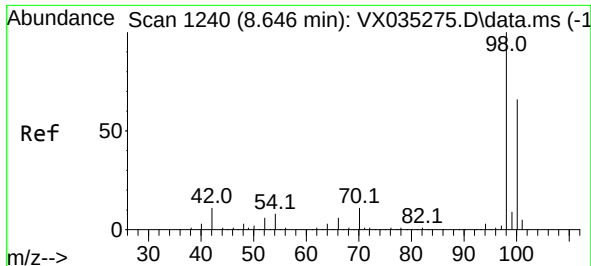


#49
1,4-Dioxane
Concen: 197.792 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. -0.018 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05



Tgt Ion: 88 Resp: 13494
Ion Ratio Lower Upper
88 100
43 28.8 27.7 41.5
58 63.5 56.8 85.2

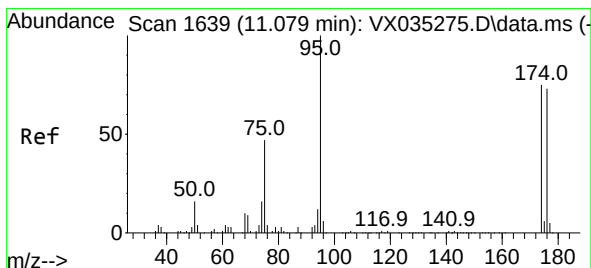
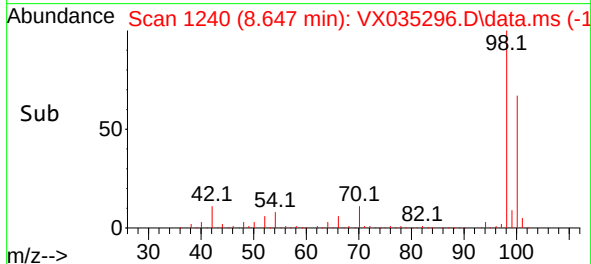
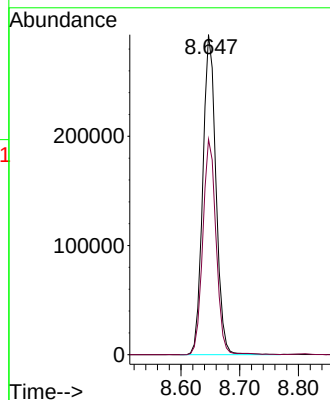
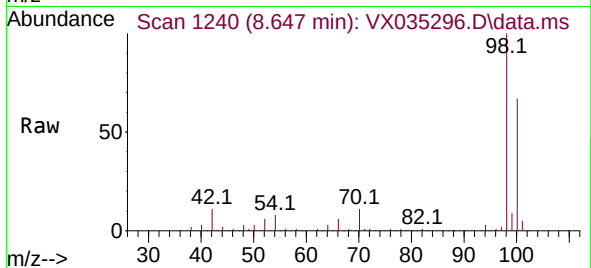




#50
Toluene-d8
Concen: 50.795 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

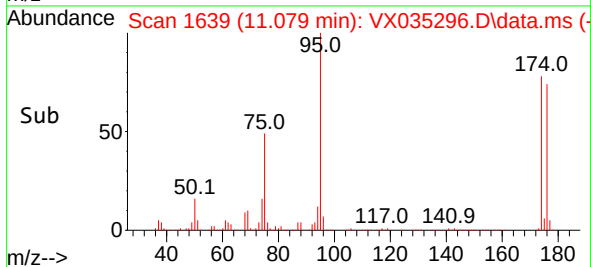
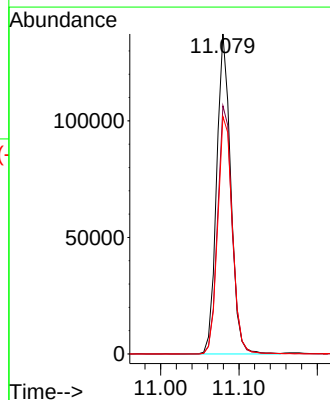
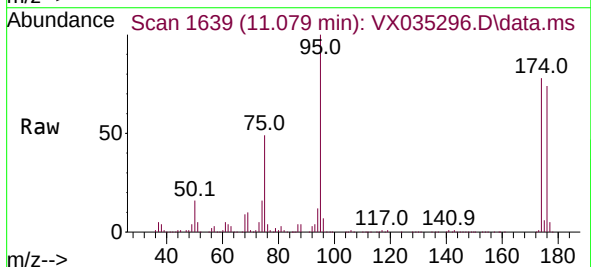
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

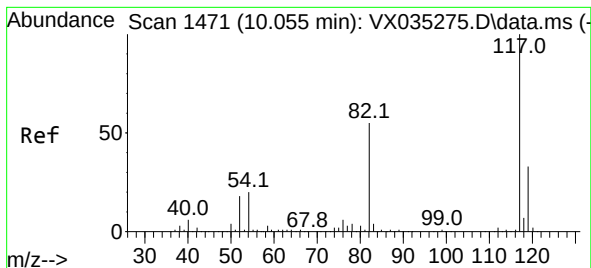
Tgt Ion: 98 Resp: 456251
Ion Ratio Lower Upper
98 100
100 67.4 52.5 78.7



#62
4-Bromofluorobenzene
Concen: 50.788 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

Tgt Ion: 95 Resp: 171608
Ion Ratio Lower Upper
95 100
174 79.6 0.0 147.4
176 77.5 0.0 140.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.001 min

Lab File: VX035296.D

Acq: 25 Apr 2023 20:05

Instrument :

MSVOA_X

ClientSampleId :

230419084-02-VOA

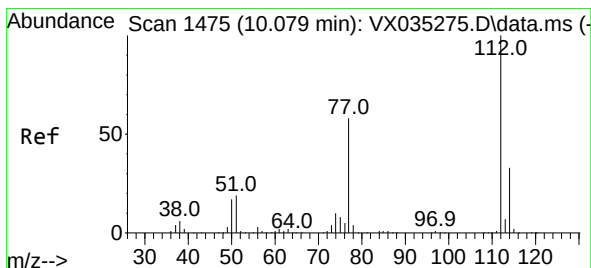
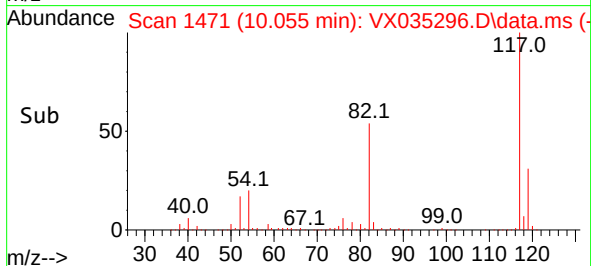
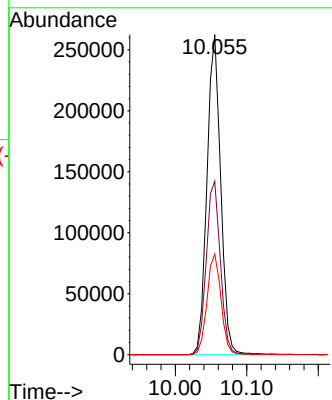
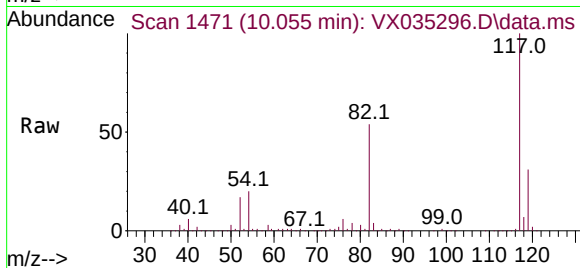
Tgt Ion:117 Resp: 350482

Ion Ratio Lower Upper

117 100

82 54.2 45.0 67.4

119 31.4 26.0 39.0



#65

Chlorobenzene

Concen: 0.731 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.001 min

Lab File: VX035296.D

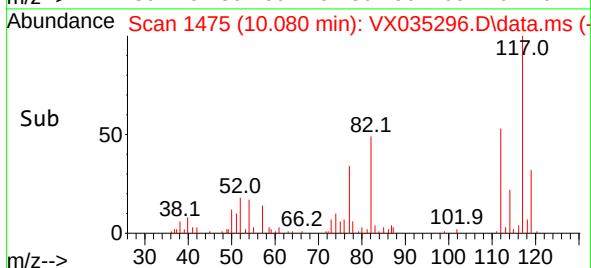
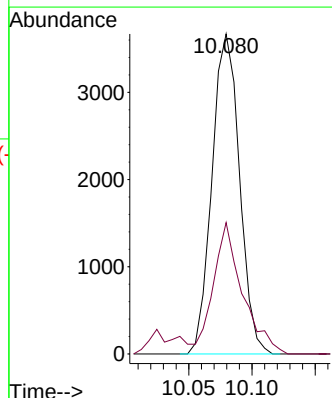
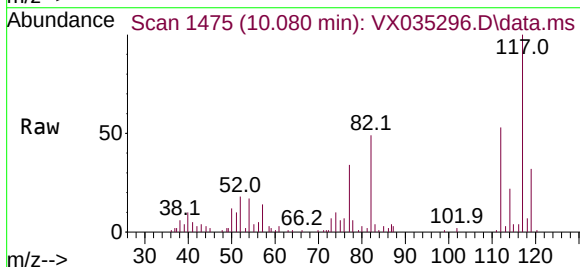
Acq: 25 Apr 2023 20:05

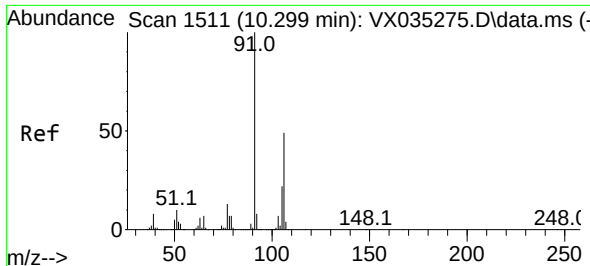
Tgt Ion:112 Resp: 5544

Ion Ratio Lower Upper

112 100

114 39.6 26.2 39.2#

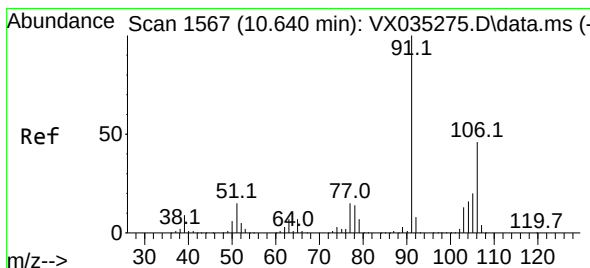
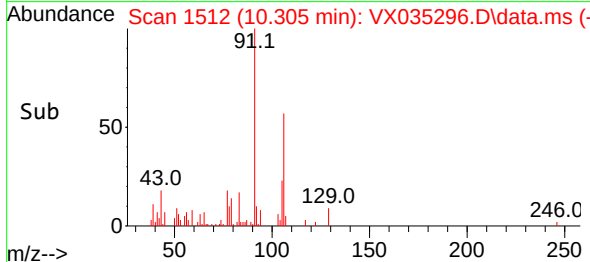
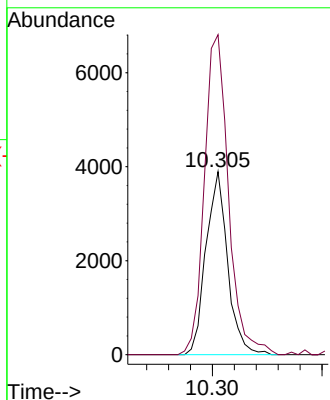
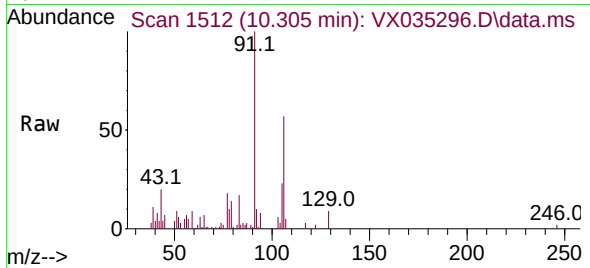




#68
m/p-Xylenes
Concen: 1.063 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.007 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

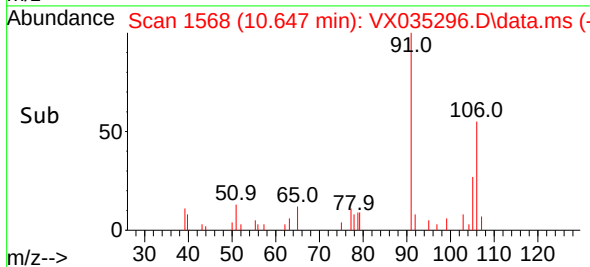
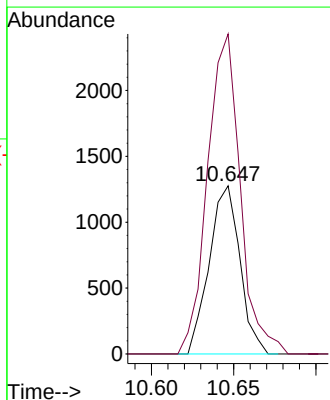
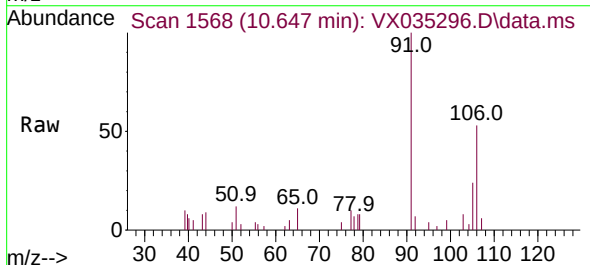
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

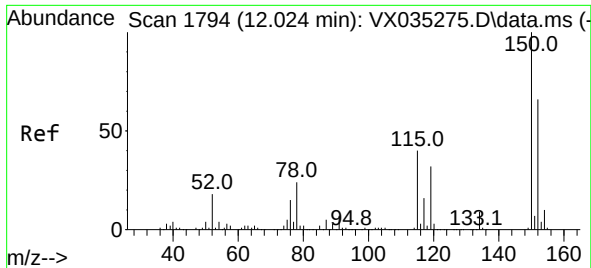
Tgt Ion:106 Resp: 5347
Ion Ratio Lower Upper
106 100
91 194.2 164.0 246.0



#69
o-Xylene
Concen: 0.336 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. 0.007 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

Tgt Ion:106 Resp: 1657
Ion Ratio Lower Upper
106 100
91 203.1 108.5 325.3

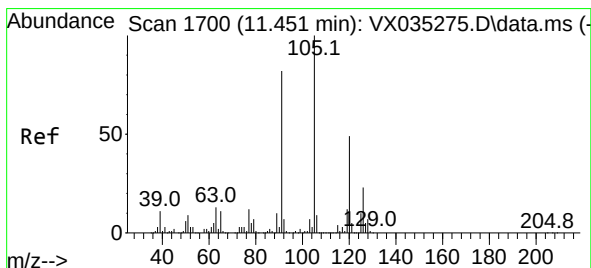
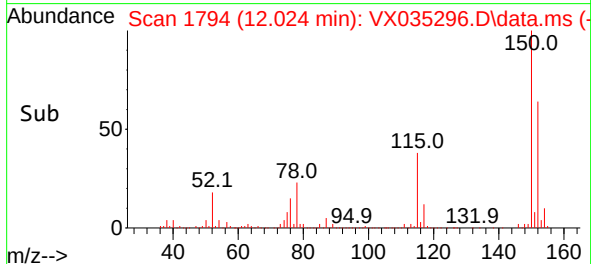
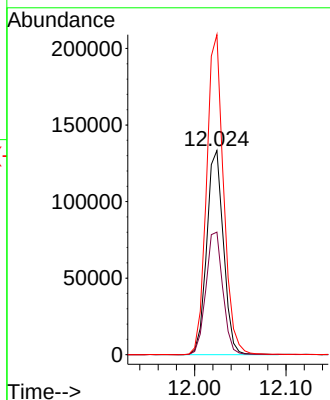
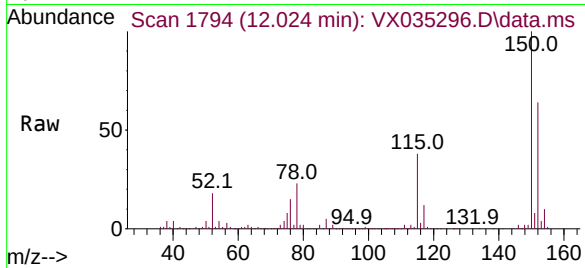




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.001 min
 Lab File: VX035296.D
 Acq: 25 Apr 2023 20:05

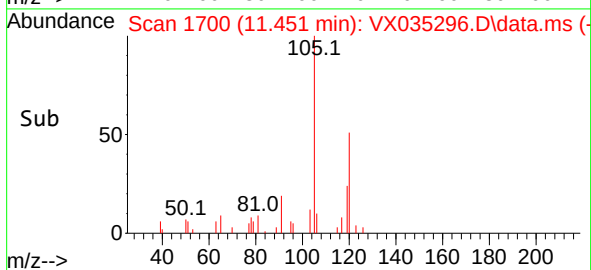
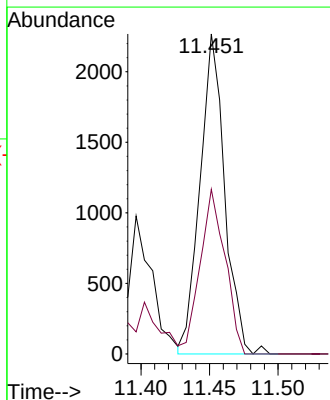
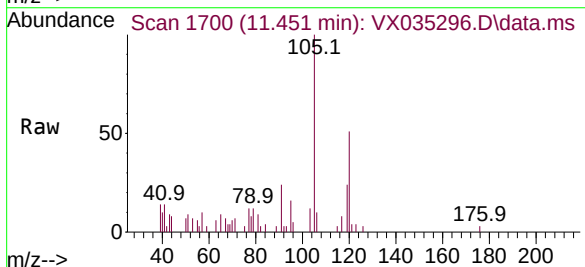
Instrument :
 MSVOA_X
 ClientSampleId :
 230419084-02-VOA

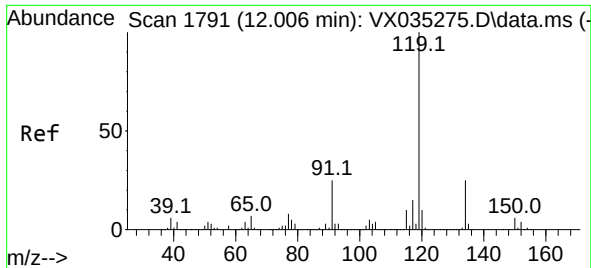
Tgt Ion:152 Resp: 169634
 Ion Ratio Lower Upper
 152 100
 115 60.9 45.0 135.0
 150 159.4 0.0 352.4



#80
 1,3,5-Trimethylbenzene
 Concen: 0.272 ug/l
 RT: 11.451 min Scan# 1700
 Delta R.T. 0.000 min
 Lab File: VX035296.D
 Acq: 25 Apr 2023 20:05

Tgt Ion:105 Resp: 2842
 Ion Ratio Lower Upper
 105 100
 120 52.1 23.7 71.1

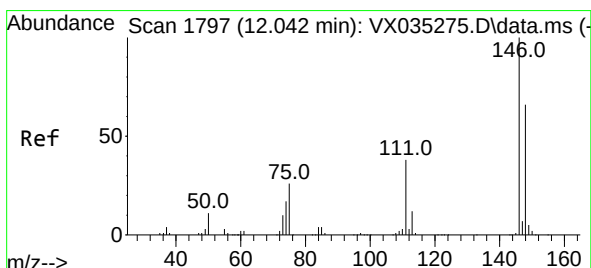
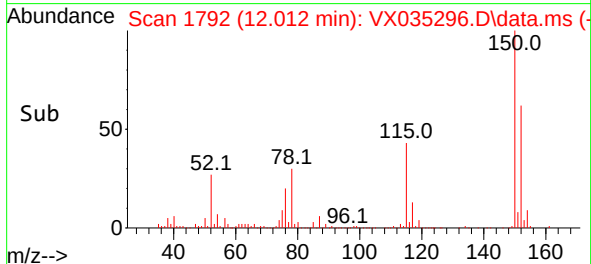
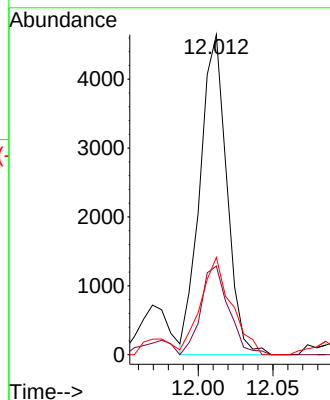
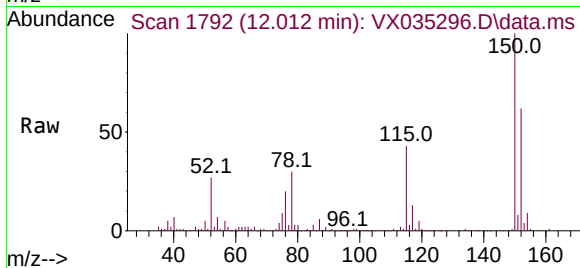




#86
p-Isopropyltoluene
Concen: 0.530 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

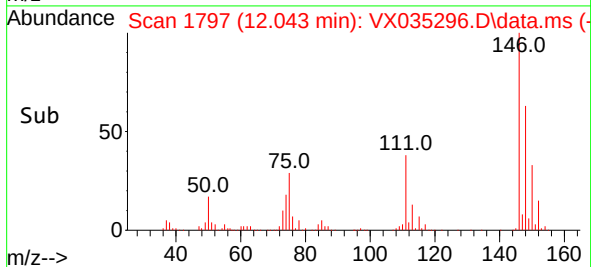
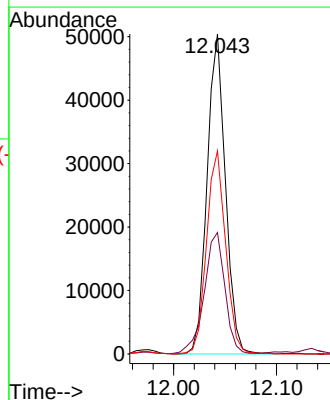
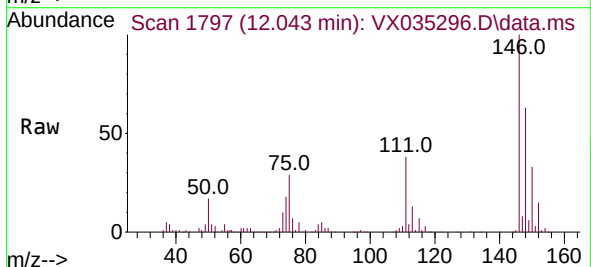
Instrument :
MSVOA_X
ClientSampleId :
230419084-02-VOA

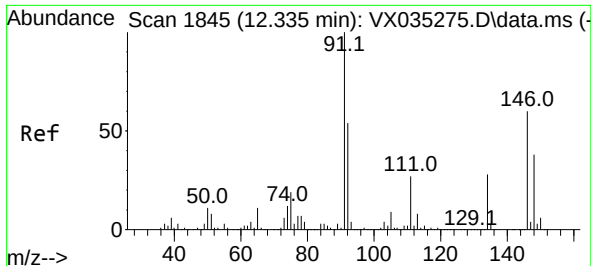
Tgt Ion:119 Resp: 5799
Ion Ratio Lower Upper
119 100
134 28.9 13.2 39.5
91 34.7 12.9 38.7



#88
1,4-Dichlorobenzene
Concen: 10.173 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.001 min
Lab File: VX035296.D
Acq: 25 Apr 2023 20:05

Tgt Ion:146 Resp: 62482
Ion Ratio Lower Upper
146 100
111 42.7 20.6 61.9
148 66.2 31.8 95.4

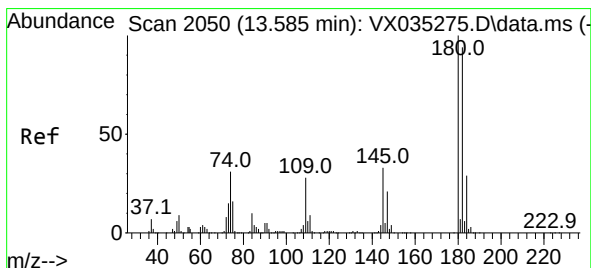
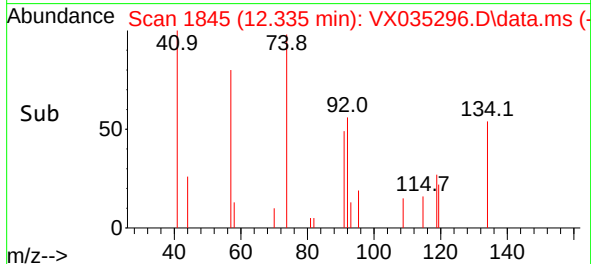
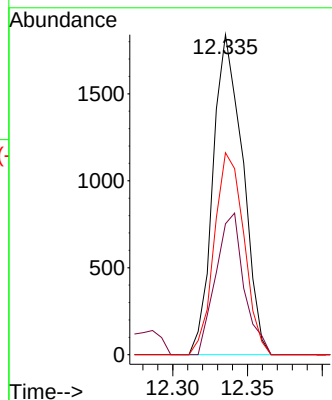
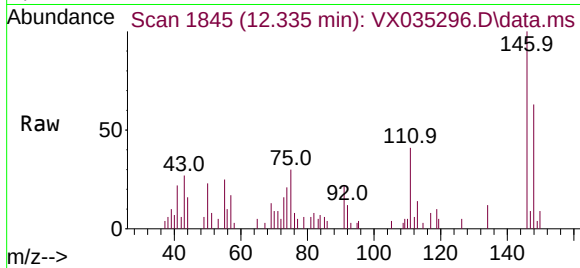




#91
 1,2-Dichlorobenzene
 Concen: 0.435 ug/l
 RT: 12.335 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX035296.D
 Acq: 25 Apr 2023 20:05

Instrument :
 MSVOA_X
 ClientSampleId :
 230419084-02-VOA

Tgt Ion:146	Resp:	2546
Ion Ratio	Lower	Upper
146	100	
111	42.1	22.0 66.0
148	63.0	32.0 96.0



#93
 1,2,4-Trichlorobenzene
 Concen: 0.206 ug/l
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX035296.D
 Acq: 25 Apr 2023 20:05

Tgt Ion:180	Resp:	759
Ion Ratio	Lower	Upper
180	100	
182	85.1	47.0 141.0
145	42.2	15.9 47.7

