

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062024\
 Data File : VX041963.D
 Acq On : 20 Jun 2024 14:11
 Operator : JC/MD
 Sample : P2981-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240619096-02-VOA

Quant Time: Jun 21 03:17:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

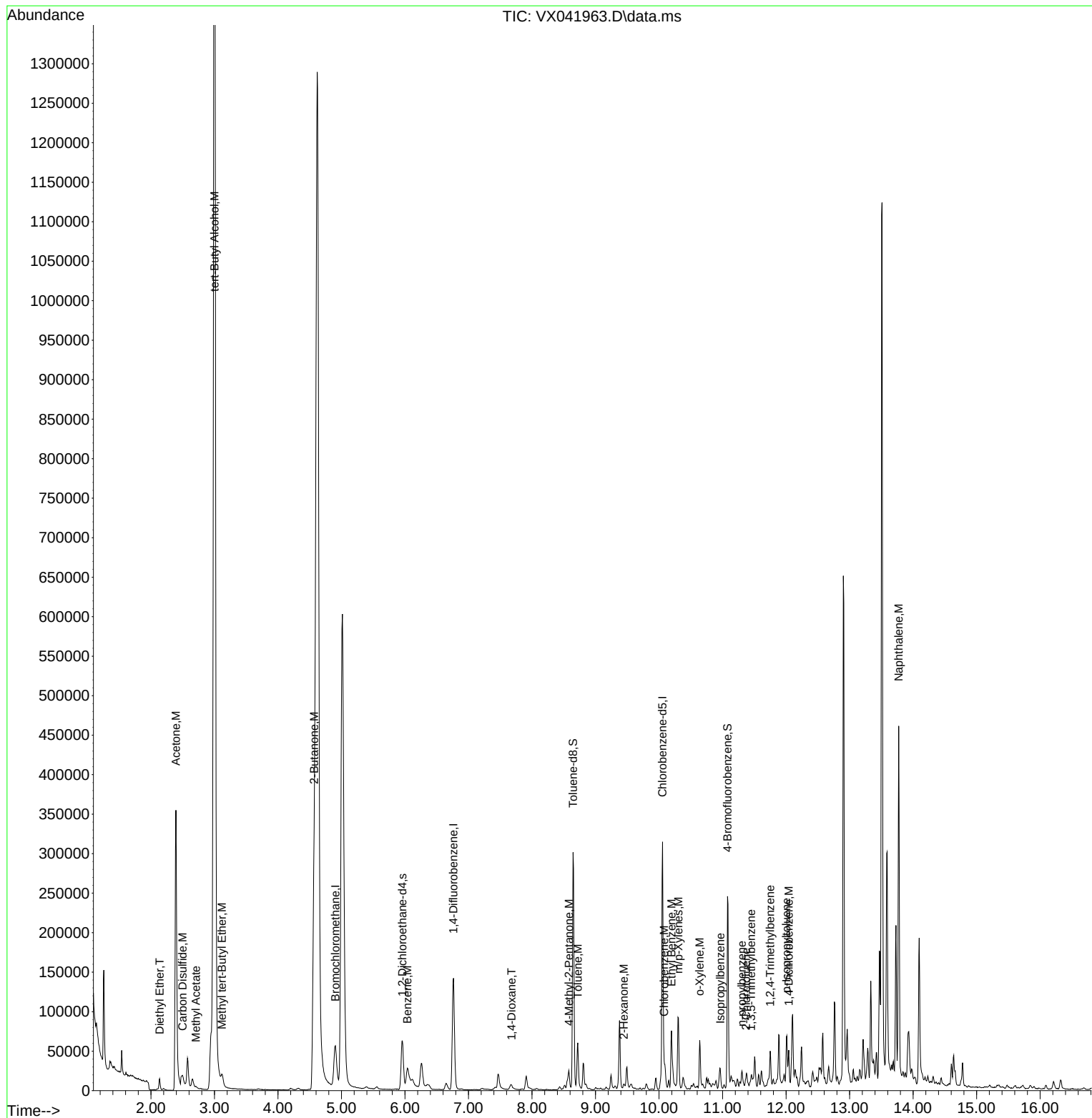
Internal Standards						
1) Bromochloromethane	4.904	128	28988	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	156856	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	144939	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	59518	29.826	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.433%
60) 4-Bromofluorobenzene	11.079	95	64957	28.953	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.500%
63) Toluene-d8	8.647	98	184901	29.818	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.400%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	4478	4.005	ug/l	97
12) Methyl Acetate	2.709	43	2119	0.938	ug/l	98
15) Acetone	2.392	58	127390	415.394	ug/l	99
16) Carbon Disulfide	2.495	76	7441	1.917	ug/l #	89
23) tert-Butyl Alcohol	3.001	59	2374875	5958.552	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	13280	2.423	ug/l #	76
30) 2-Butanone	4.568	43	493257	360.592	ug/l	96
34) Benzene	6.037	78	31652	4.641	ug/l	99
45) 1,4-Dioxane	7.677	88	4904	104.727	ug/l #	88
58) 4-Methyl-2-Pentanone	8.580	43	16267	6.263	ug/l #	87
59) 2-Hexanone	9.445	43	4185	2.088	ug/l #	79
62) Toluene	8.720	91	32195	4.390	ug/l	99
64) Chlorobenzene	10.079	112	7449	1.491	ug/l	91
66) Ethyl Benzene	10.195	91	42556	5.307	ug/l	96
67) m/p-Xylenes	10.305	106	22237	6.894	ug/l	100
68) o-Xylene	10.640	106	13988	4.350	ug/l	96
70) Isopropylbenzene	10.963	105	10688	1.322	ug/l	99
74) n-propylbenzene	11.305	91	5243	0.590	ug/l	98
75) 2-Chlorotoluene	11.372	91	2110	0.374	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	4562	0.673	ug/l	92
80) 1,2,4-Trimethylbenzene	11.750	105	19536	2.887	ug/l	100
82) p-Isopropyltoluene	12.006	119	21241	2.890	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	14772	3.529	ug/l	96
91) Naphthalene	13.774	128	270367	31.083	ug/l	100

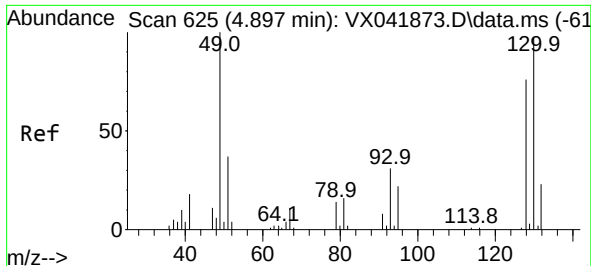
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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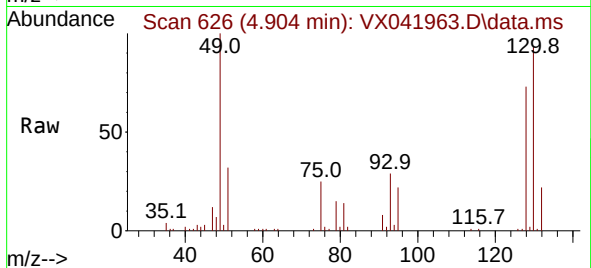
Quant Time: Jun 21 03:17:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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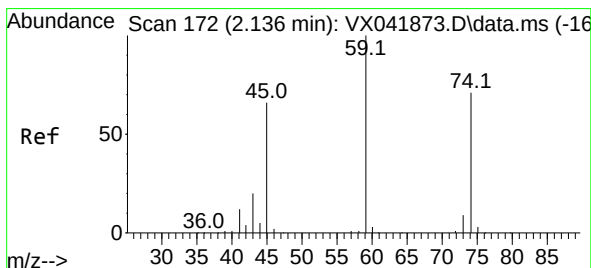
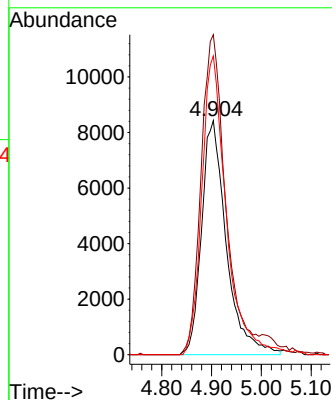
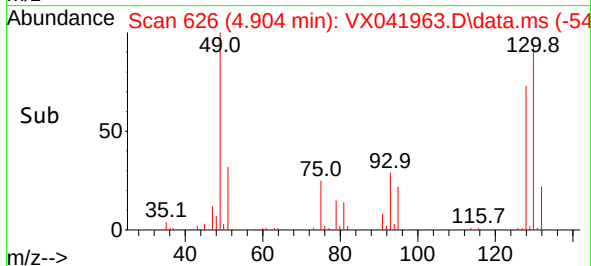


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA

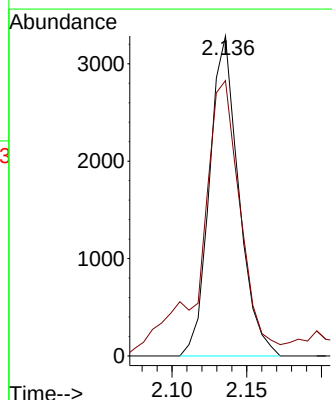
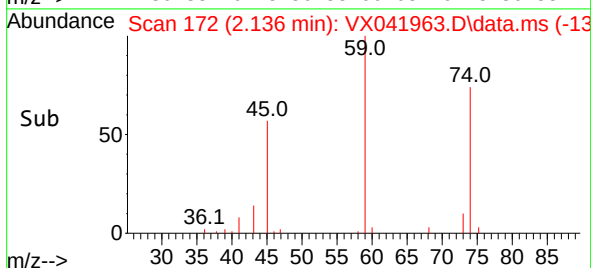
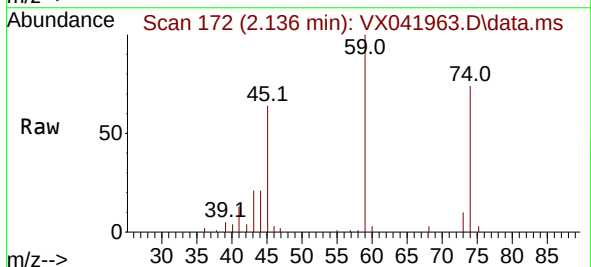


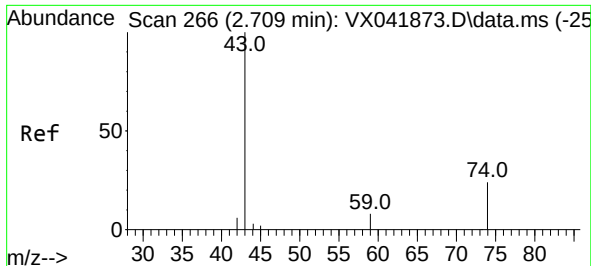
Tgt Ion:128 Resp: 28988
Ion Ratio Lower Upper
128 100
49 136.5 0.0 338.5
130 125.5 0.0 324.5



#8
Diethyl Ether
Concen: 4.005 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion: 74 Resp: 4478
Ion Ratio Lower Upper
74 100
45 91.2 18.7 168.7

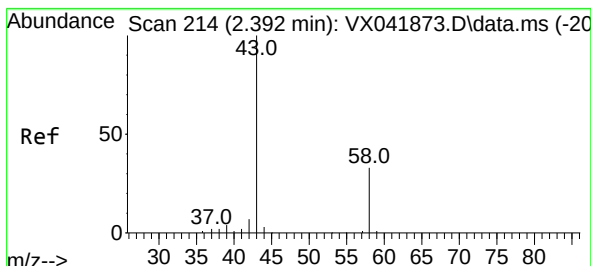
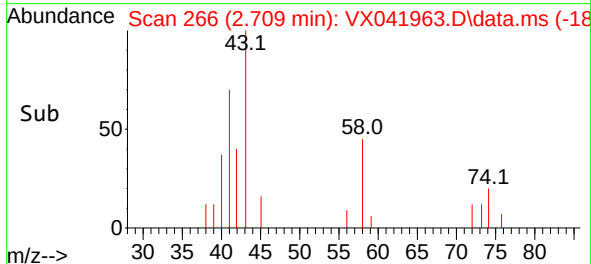
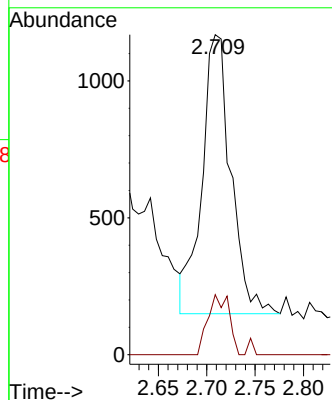
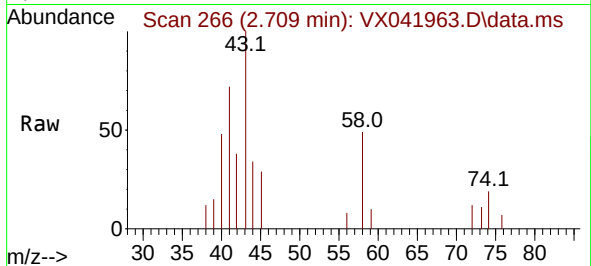




#12
Methyl Acetate
Concen: 0.938 ug/l
RT: 2.709 min Scan# 2119
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

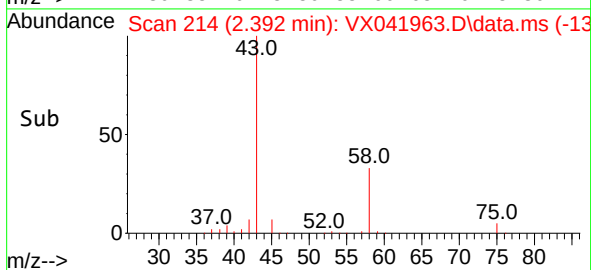
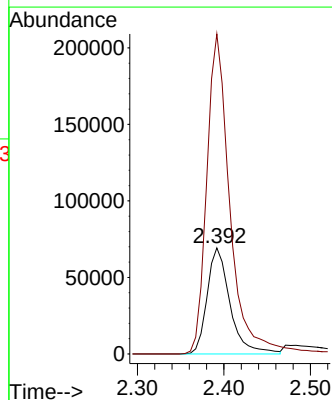
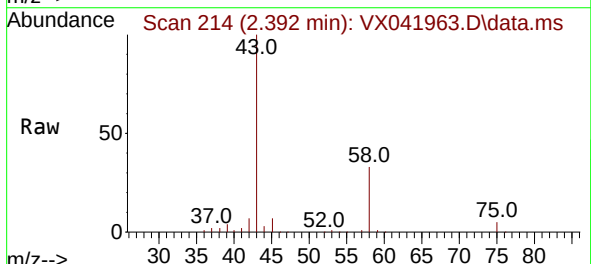
Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA

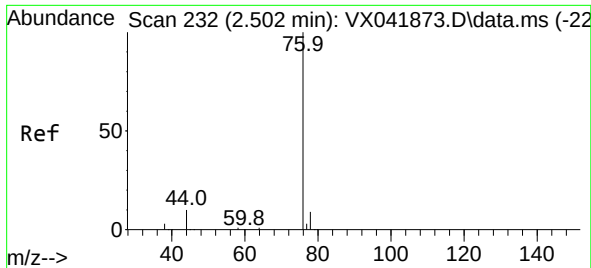
Tgt Ion: 43 Resp: 2119
Ion Ratio Lower Upper
43 100
74 23.1 19.4 29.2



#15
Acetone
Concen: 415.394 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion: 58 Resp: 127390
Ion Ratio Lower Upper
58 100
43 301.7 243.4 365.2





#16

Carbon Disulfide

Concen: 1.917 ug/l

RT: 2.495 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX041963.D

Acq: 20 Jun 2024 14:11

Instrument :

MSVOA_X

ClientSampleId :

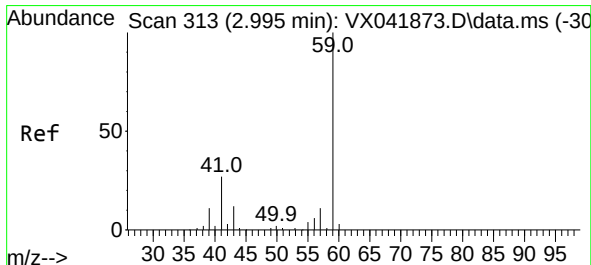
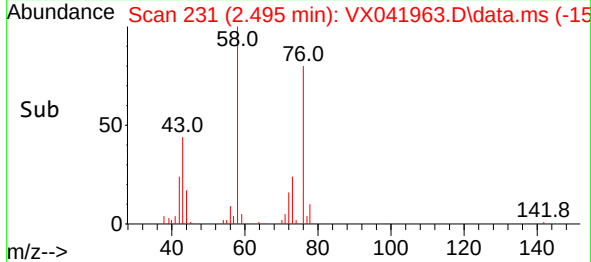
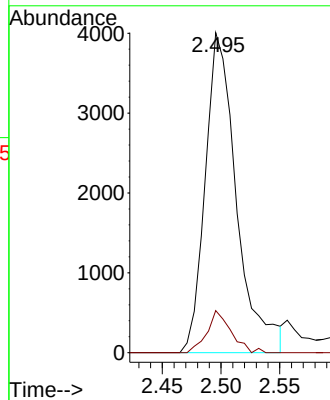
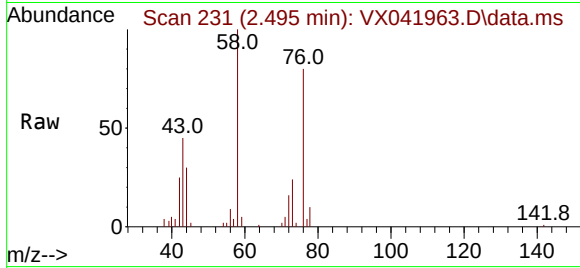
240619096-02-VOA

Tgt Ion: 76 Resp: 7441

Ion Ratio Lower Upper

76 100

78 13.2 7.3 10.9#



#23

tert-Butyl Alcohol

Concen: 5958.552 ug/l

RT: 3.001 min Scan# 314

Delta R.T. 0.006 min

Lab File: VX041963.D

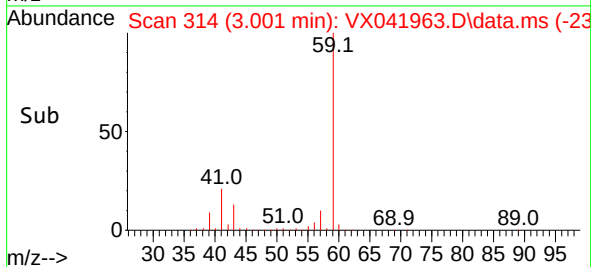
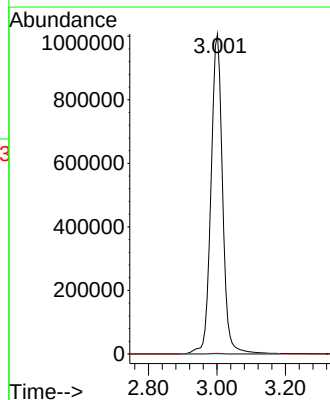
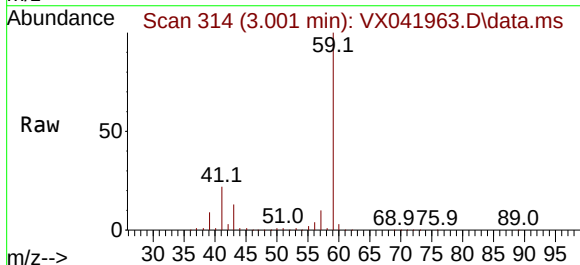
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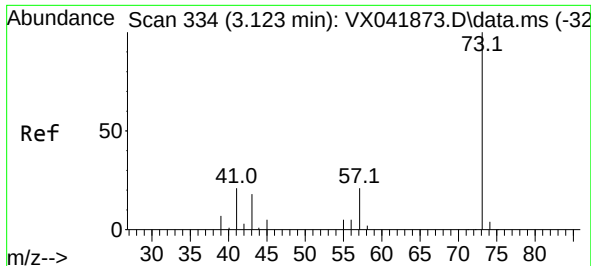
Tgt Ion: 59 Resp: 2374875

Ion Ratio Lower Upper

59 100

52 0.2 0.0 0.0#

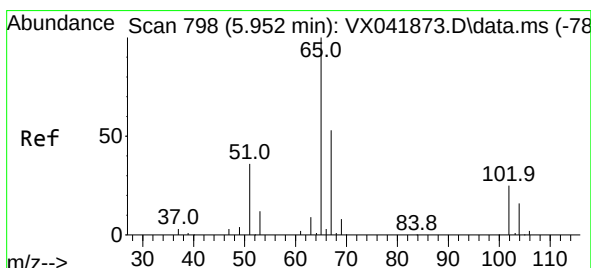
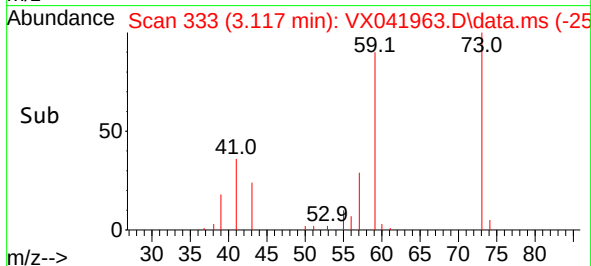
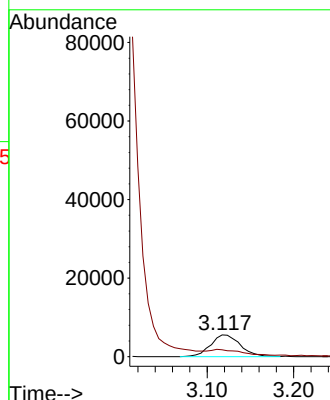
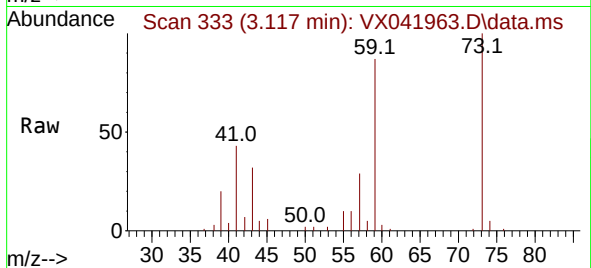




#24
Methyl tert-Butyl Ether
Concen: 2.423 ug/l
RT: 3.117 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

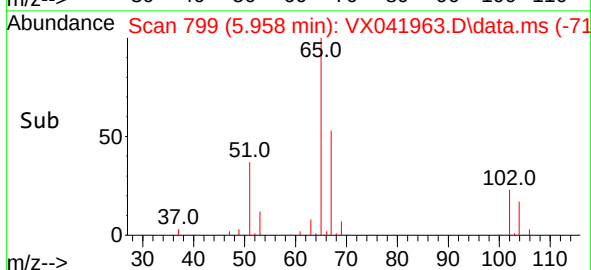
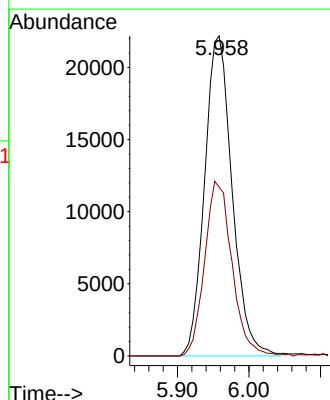
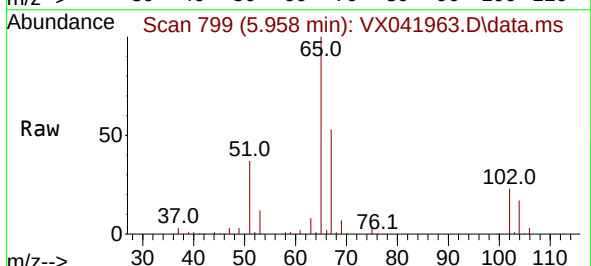
Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA

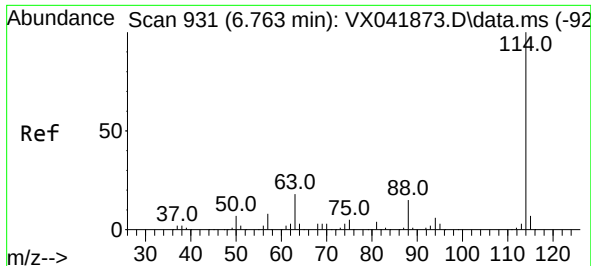
Tgt Ion: 73 Resp: 13280
Ion Ratio Lower Upper
73 100
43 29.6 15.1 22.7#



#27
1,2-Dichloroethane-d4
Concen: 29.826 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion: 65 Resp: 59518
Ion Ratio Lower Upper
65 100
67 54.1 43.4 65.0

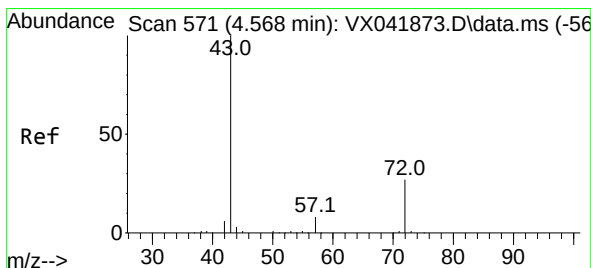
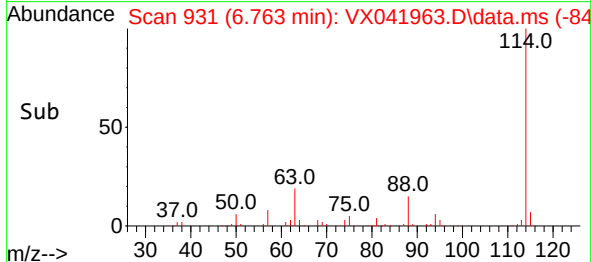
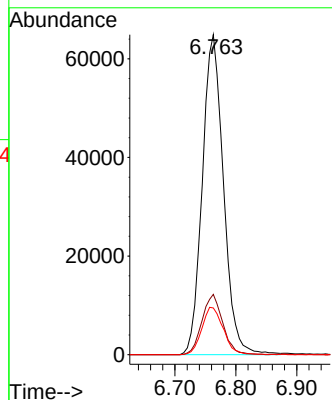
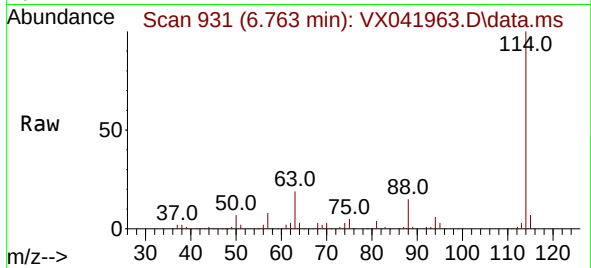




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 91
 Delta R.T. 0.000 min
 Lab File: VX041963.D
 Acq: 20 Jun 2024 14:11

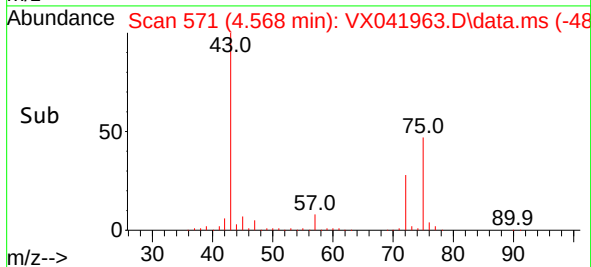
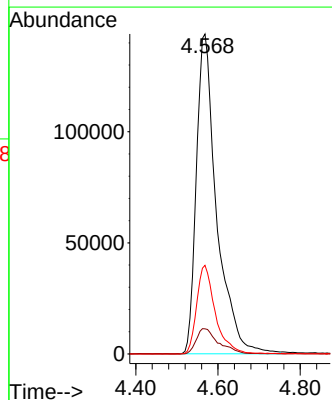
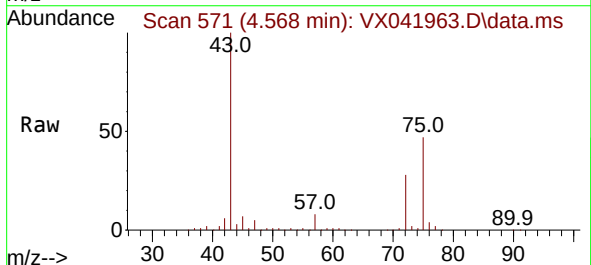
Instrument :
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 ClientSampleId :
 240619096-02-VOA

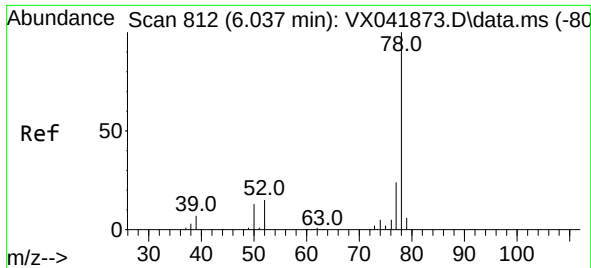
Tgt Ion:114 Resp: 156856
 Ion Ratio Lower Upper
 114 100
 63 18.4 14.6 21.8
 88 15.0 11.8 17.8



#30
 2-Butanone
 Concen: 360.592 ug/l
 RT: 4.568 min Scan# 571
 Delta R.T. 0.000 min
 Lab File: VX041963.D
 Acq: 20 Jun 2024 14:11

Tgt Ion: 43 Resp: 493257
 Ion Ratio Lower Upper
 43 100
 57 8.7 6.5 9.7
 72 25.4 22.0 33.0





#34

Benzene

Concen: 4.641 ug/l

RT: 6.037 min Scan# 81

Delta R.T. 0.000 min

Lab File: VX041963.D

Acq: 20 Jun 2024 14:11

Instrument :

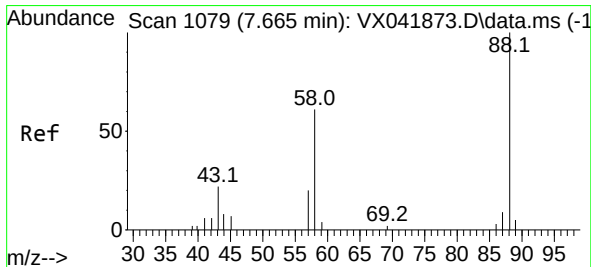
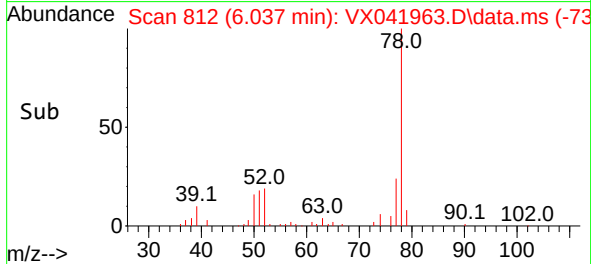
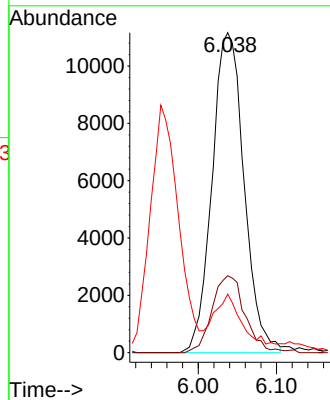
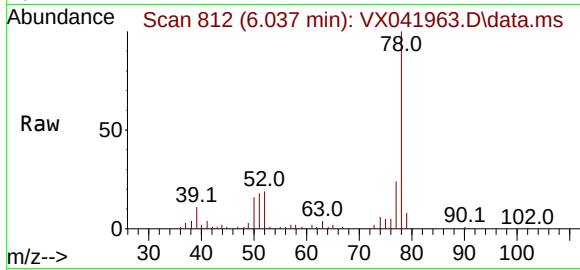
MSVOA_X

ClientSampleId :

240619096-02-VOA

Tgt Ion: 78 Resp: 31652

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.9	28.3
51	15.5	11.8	17.8



#45

1,4-Dioxane

Concen: 104.727 ug/l

RT: 7.677 min Scan# 1081

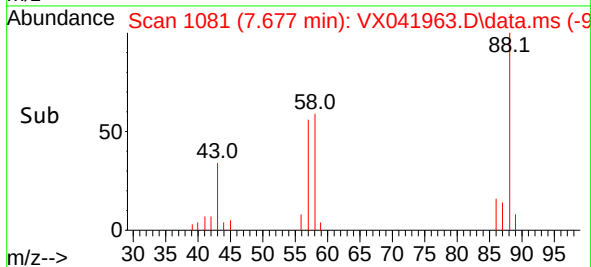
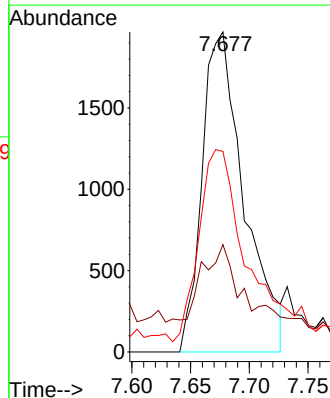
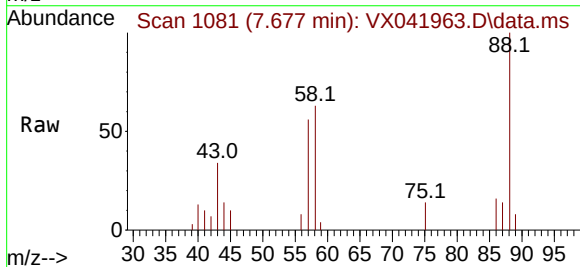
Delta R.T. 0.012 min

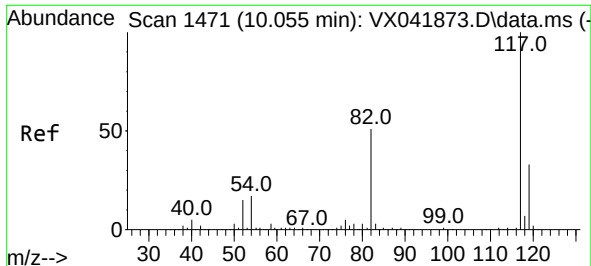
Lab File: VX041963.D

Acq: 20 Jun 2024 14:11

Tgt Ion: 88 Resp: 4904

Ion	Ratio	Lower	Upper
88	100		
43	11.2	23.2	34.8#
58	67.4	52.6	78.8

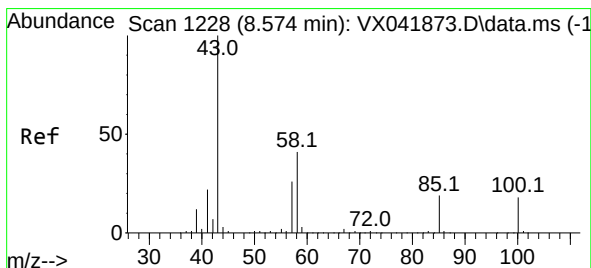
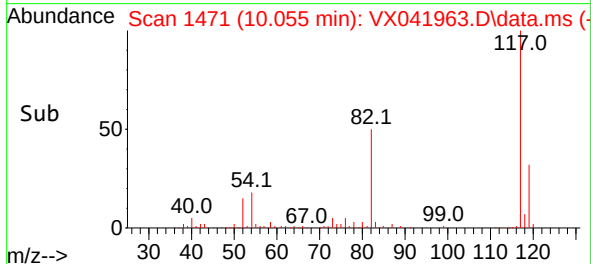
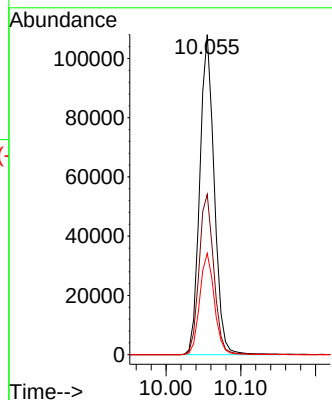
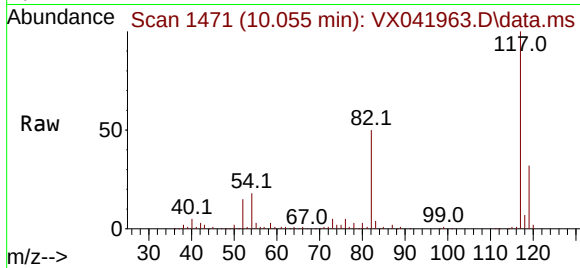




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

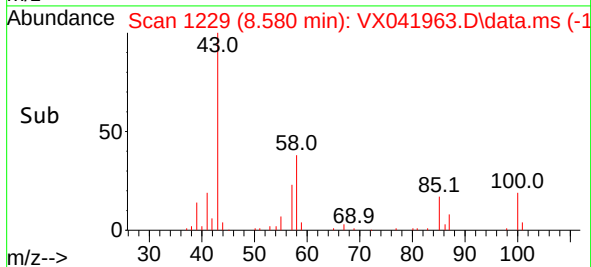
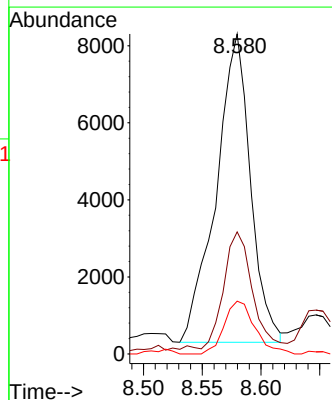
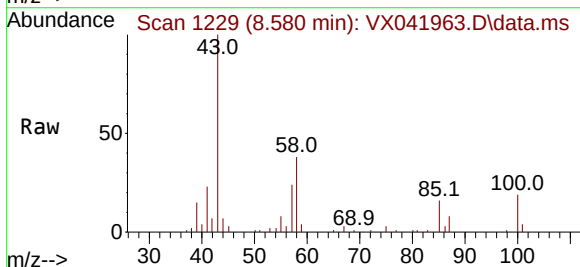
Instrument :
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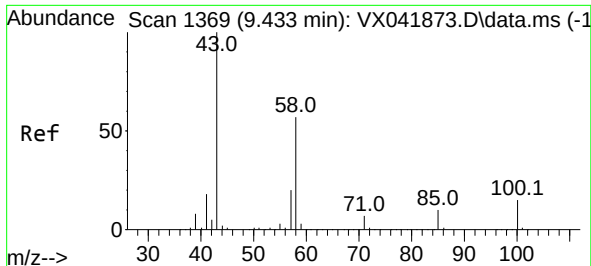
Tgt Ion:117 Resp: 144939
Ion Ratio Lower Upper
117 100
82 51.3 41.1 61.7
119 32.1 26.1 39.1



#58
4-Methyl-2-Pentanone
Concen: 6.263 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion: 43 Resp: 16267
Ion Ratio Lower Upper
43 100
58 32.4 33.2 49.8#
85 15.3 15.5 23.3#





#59

2-Hexanone

Concen: 2.088 ug/l

RT: 9.445 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX041963.D

Acq: 20 Jun 2024 14:11

Instrument :

MSVOA_X

ClientSampleId :

240619096-02-VOA

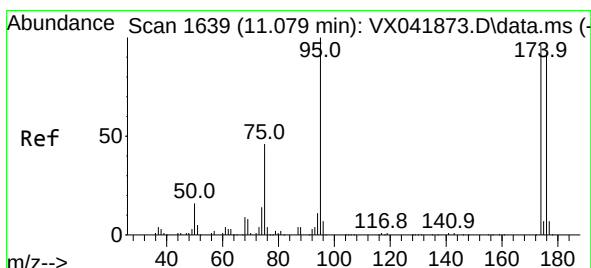
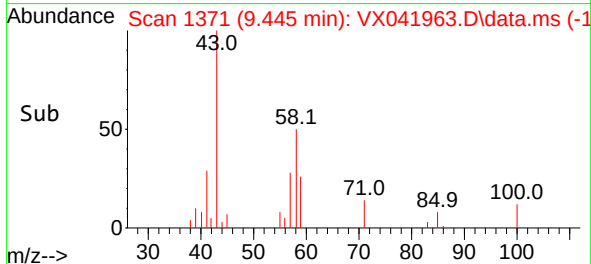
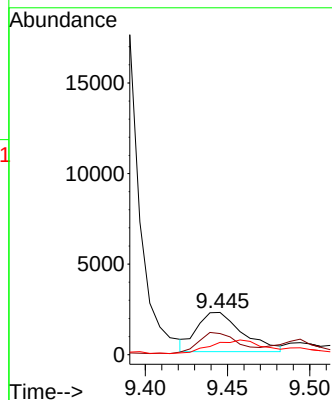
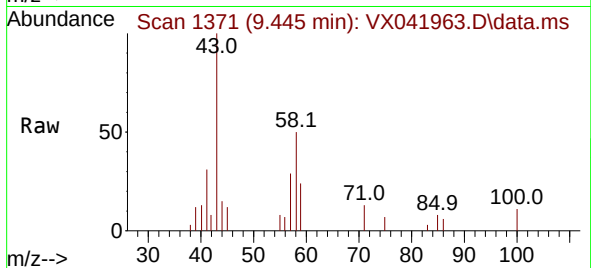
Tgt Ion: 43 Resp: 4185

Ion Ratio Lower Upper

43 100

58 47.4 46.0 69.0

57 38.7 15.8 23.6#



#60

4-Bromofluorobenzene

Concen: 28.953 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX041963.D

Acq: 20 Jun 2024 14:11

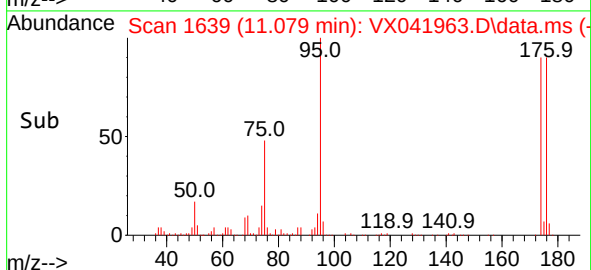
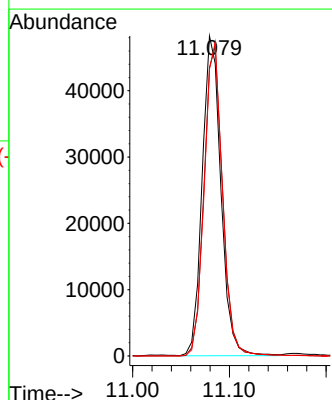
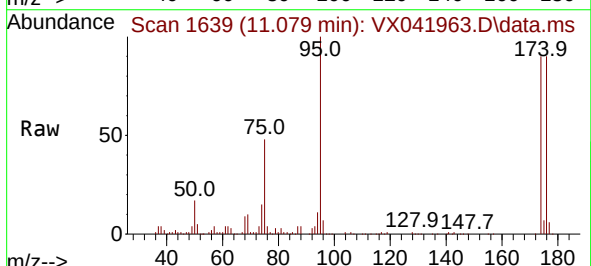
Tgt Ion: 95 Resp: 64957

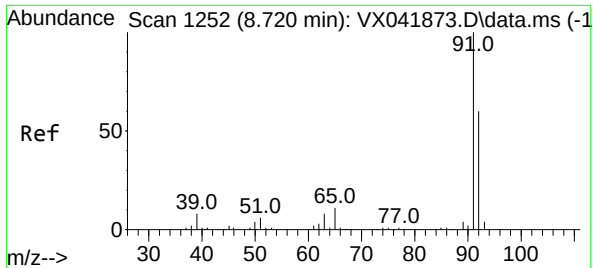
Ion Ratio Lower Upper

95 100

174 96.0 78.9 118.3

176 95.3 77.1 115.7

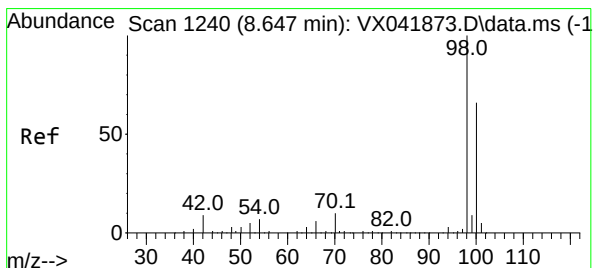
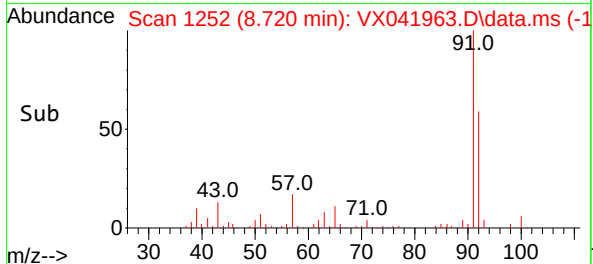
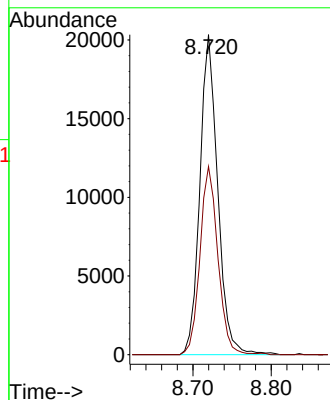
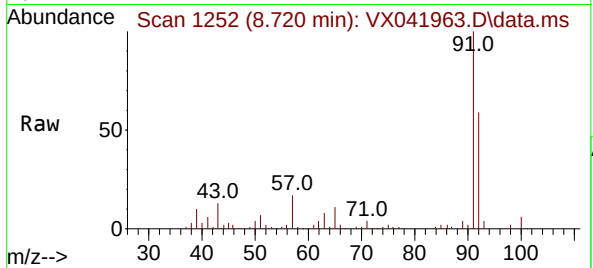




#62
Toluene
Concen: 4.390 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

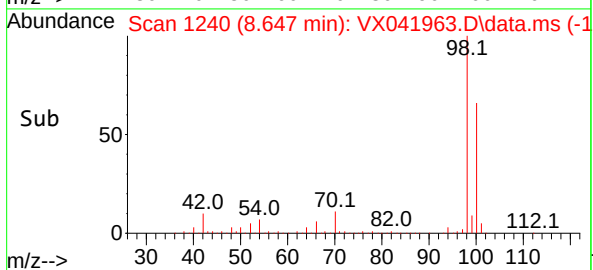
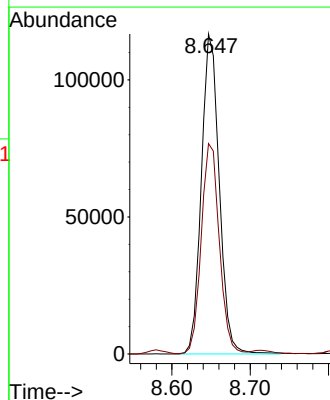
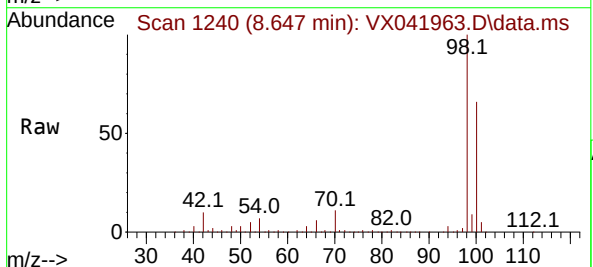
Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA

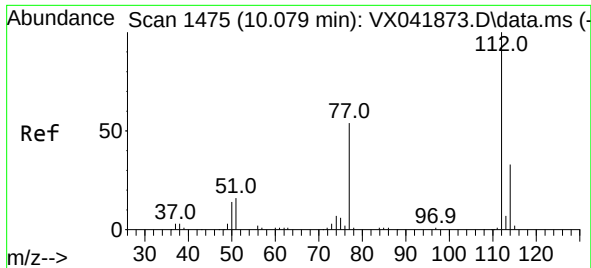
Tgt Ion: 91 Resp: 32195
Ion Ratio Lower Upper
91 100
92 58.8 47.4 71.2



#63
Toluene-d8
Concen: 29.818 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion: 98 Resp: 184901
Ion Ratio Lower Upper
98 100
100 66.6 52.7 79.1

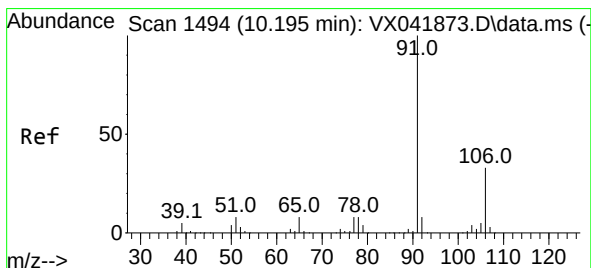
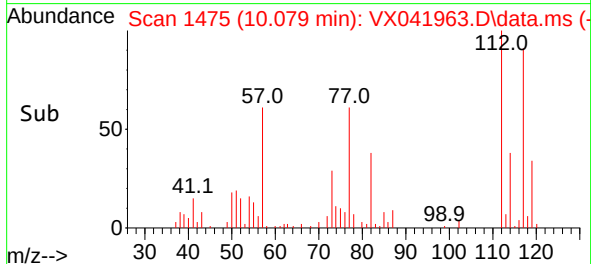
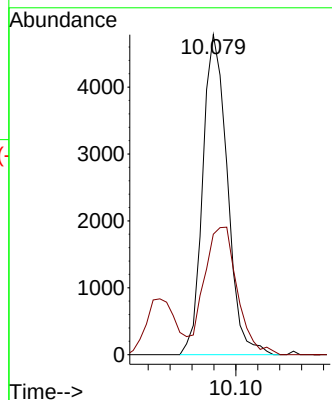
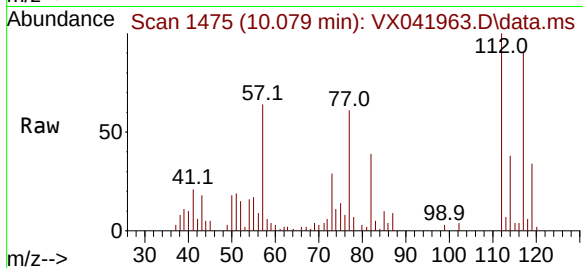




#64
Chlorobenzene
Concen: 1.491 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

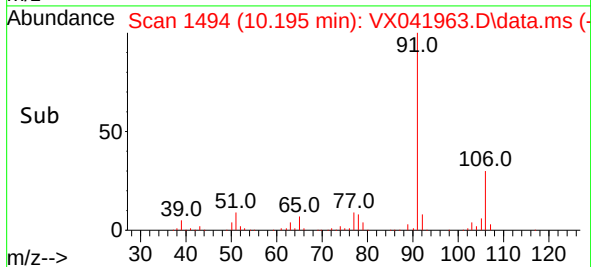
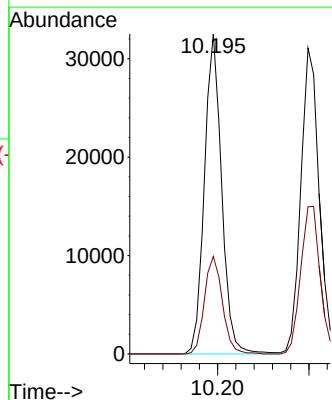
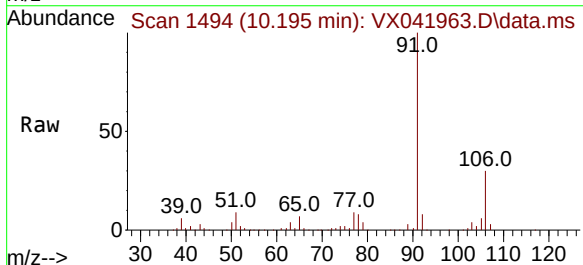
Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA

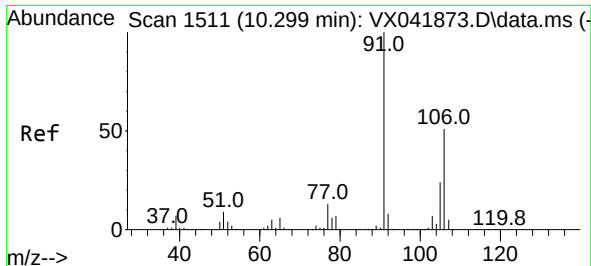
Tgt Ion:112 Resp: 7449
Ion Ratio Lower Upper
112 100
114 37.7 26.2 39.4



#66
Ethyl Benzene
Concen: 5.307 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion: 91 Resp: 42556
Ion Ratio Lower Upper
91 100
106 30.5 26.4 39.6

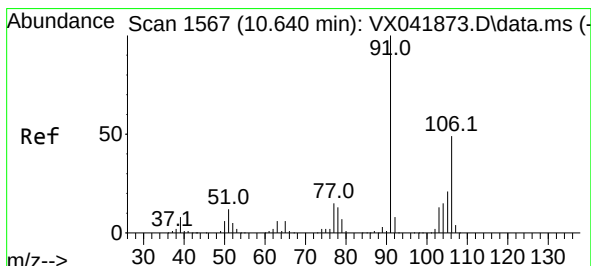
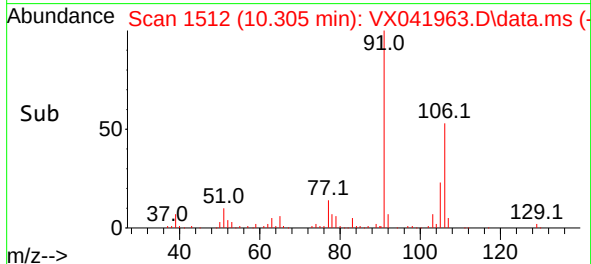
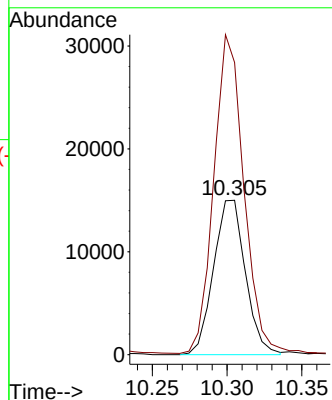
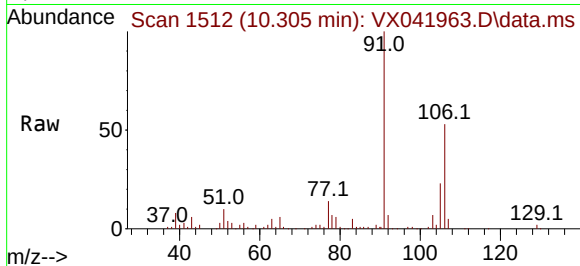




#67
m/p-Xylenes
Concen: 6.894 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

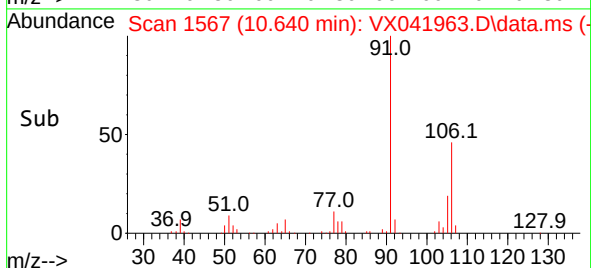
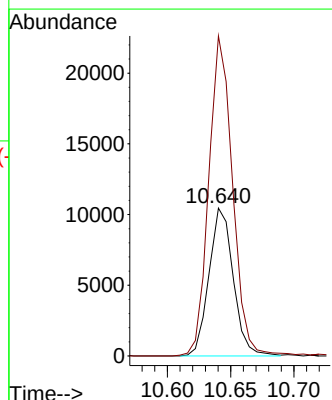
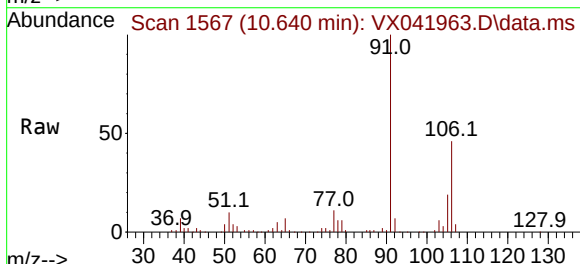
Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA

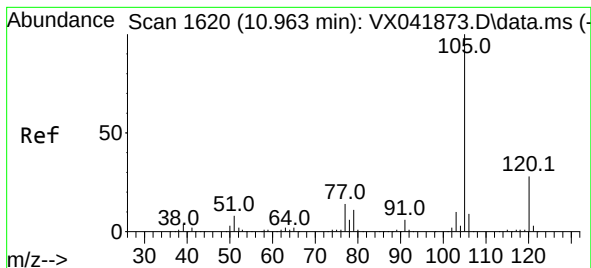
Tgt Ion:106 Resp: 22237
Ion Ratio Lower Upper
106 100
91 196.9 157.0 235.6



#68
o-Xylene
Concen: 4.350 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion:106 Resp: 13988
Ion Ratio Lower Upper
106 100
91 212.7 103.2 309.6





#70

Isopropylbenzene

Concen: 1.322 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX041963.D

Acq: 20 Jun 2024 14:11

Instrument :

MSVOA_X

ClientSampleId :

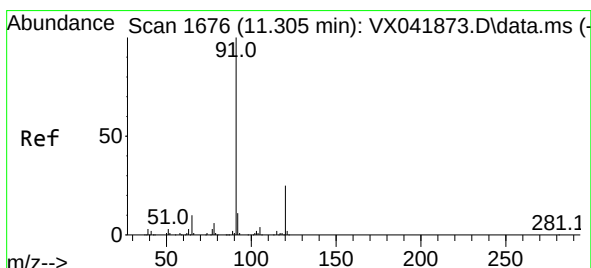
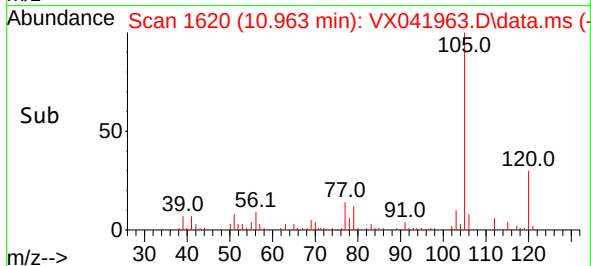
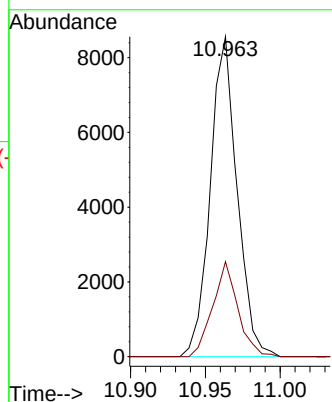
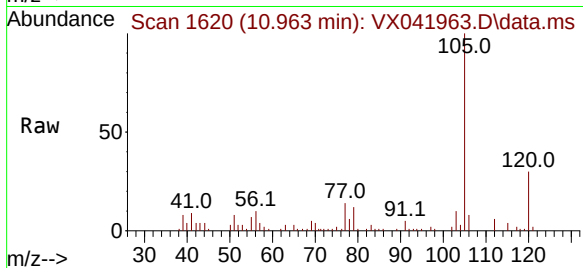
240619096-02-VOA

Tgt Ion:105 Resp: 10688

Ion Ratio Lower Upper

105 100

120 27.9 19.2 35.6



#74

n-propylbenzene

Concen: 0.590 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX041963.D

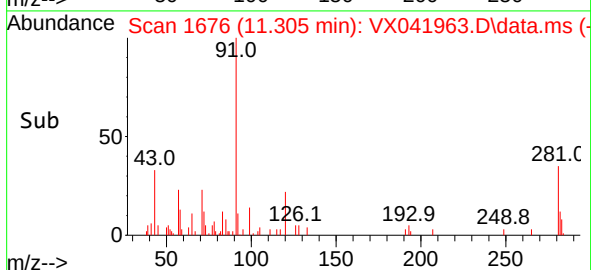
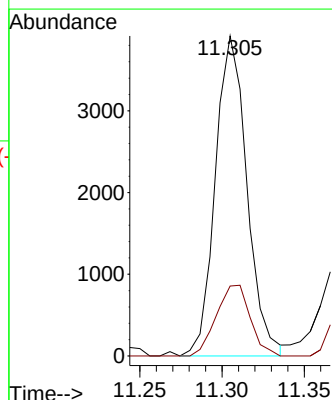
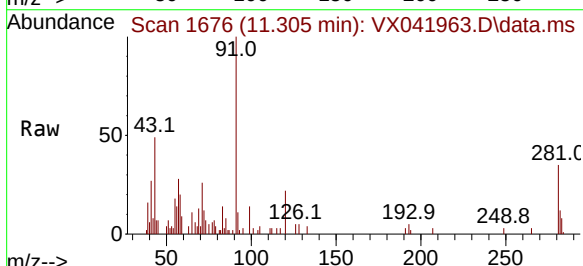
Acq: 20 Jun 2024 14:11

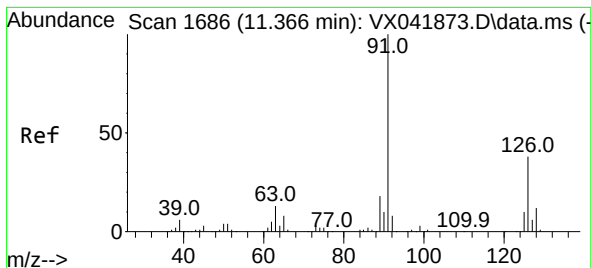
Tgt Ion: 91 Resp: 5243

Ion Ratio Lower Upper

91 100

120 23.7 0.0 49.6





#75

2-Chlorotoluene

Concen: 0.374 ug/l

RT: 11.372 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX041963.D

Acq: 20 Jun 2024 14:11

Instrument :

MSVOA_X

ClientSampleId :

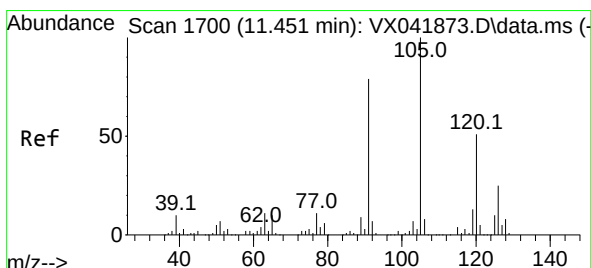
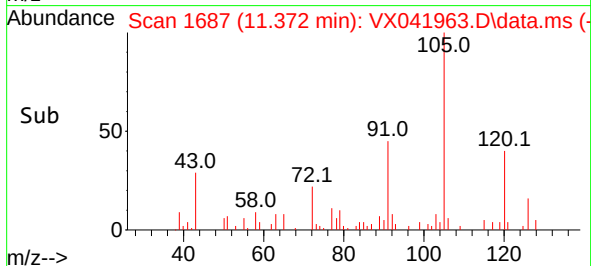
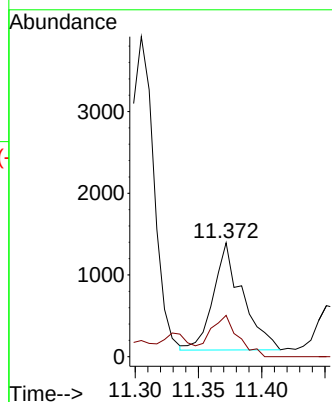
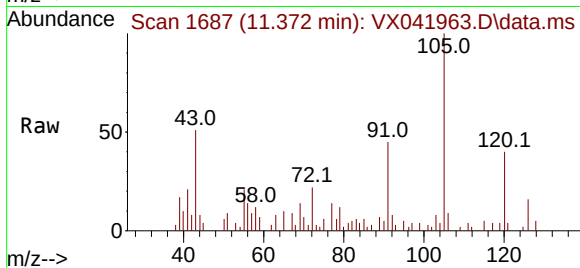
240619096-02-VOA

Tgt Ion: 91 Resp: 2110

Ion Ratio Lower Upper

91 100

126 36.5 0.0 72.6



#76

1,3,5-Trimethylbenzene

Concen: 0.673 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX041963.D

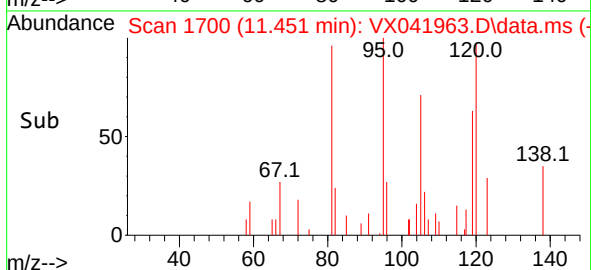
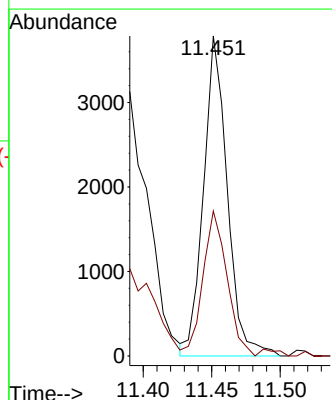
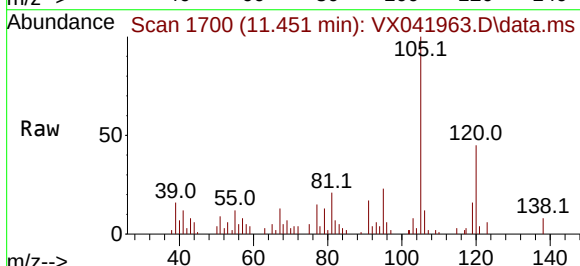
Acq: 20 Jun 2024 14:11

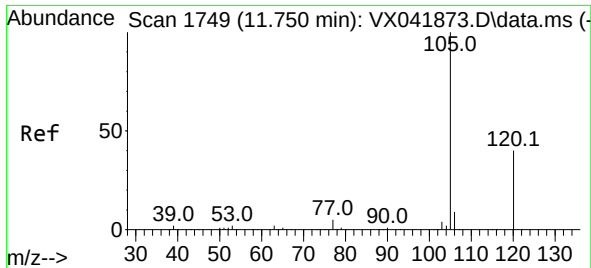
Tgt Ion: 105 Resp: 4562

Ion Ratio Lower Upper

105 100

120 45.9 0.0 103.0

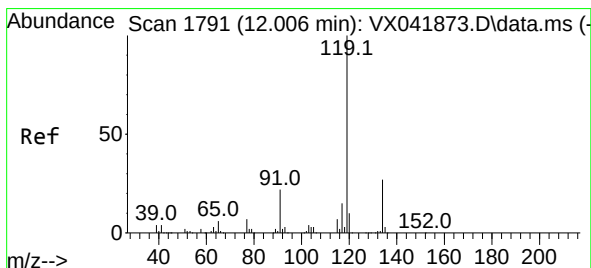
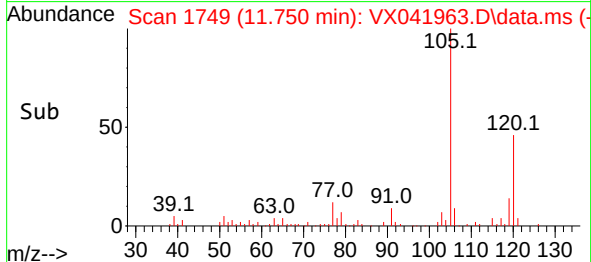
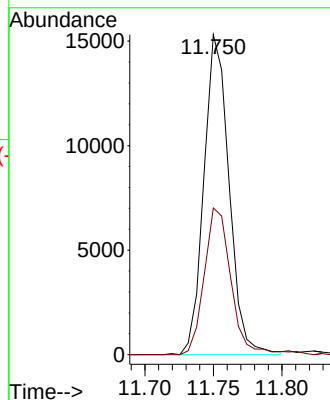
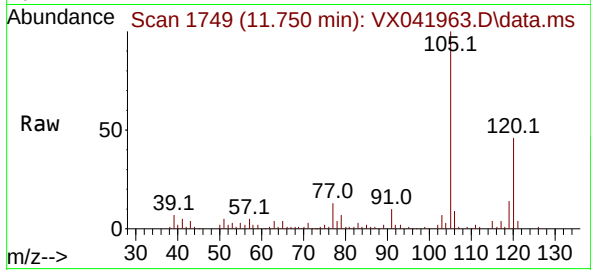




#80
1,2,4-Trimethylbenzene
Concen: 2.887 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

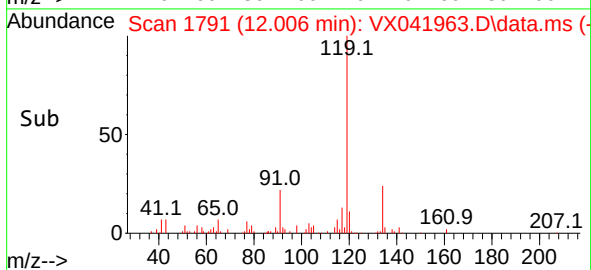
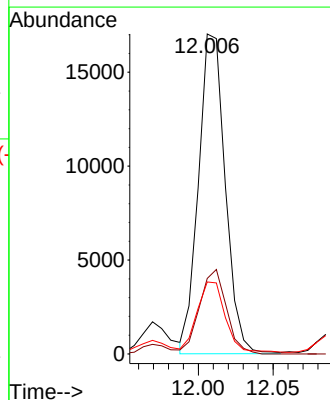
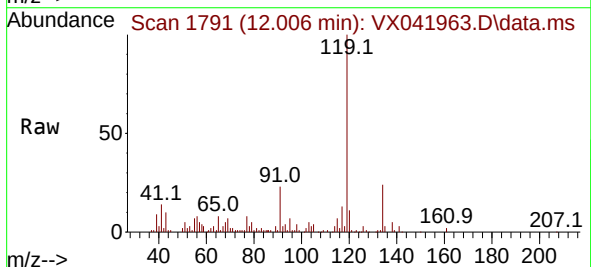
Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA

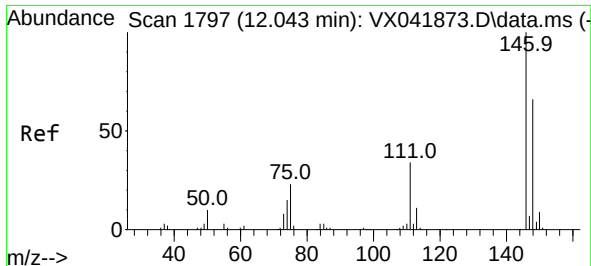
Tgt Ion:105 Resp: 19536
Ion Ratio Lower Upper
105 100
120 47.9 0.0 96.2



#82
p-Isopropyltoluene
Concen: 2.890 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

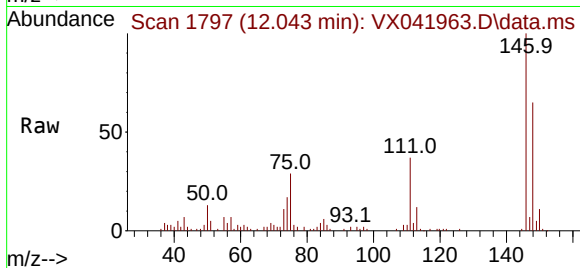
Tgt Ion:119 Resp: 21241
Ion Ratio Lower Upper
119 100
134 26.4 0.0 54.0
91 23.0 0.0 42.2



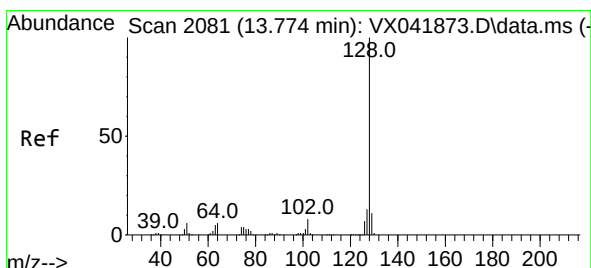
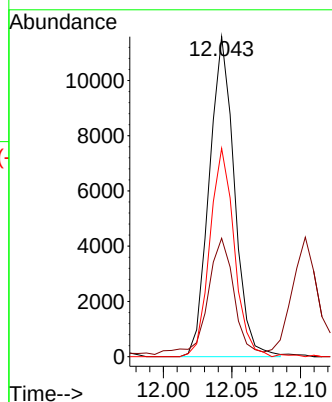
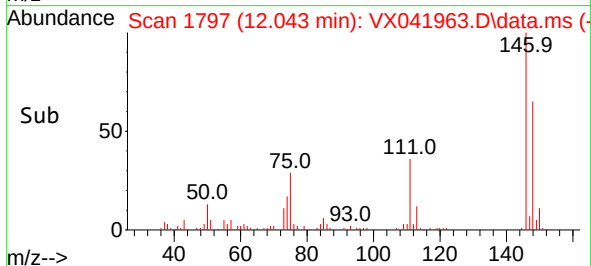


#84
1,4-Dichlorobenzene
Concen: 3.529 ug/l
RT: 12.043 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Instrument :
MSVOA_X
ClientSampleId :
240619096-02-VOA



Tgt Ion:146 Resp: 14772
Ion Ratio Lower Upper
146 100
111 40.1 17.4 52.3
148 63.1 32.3 96.9



#91
Naphthalene
Concen: 31.083 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX041963.D
Acq: 20 Jun 2024 14:11

Tgt Ion:128 Resp: 270367
Ion Ratio Lower Upper
128 100
127 13.1 10.4 15.6
129 11.2 8.7 13.1

