

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102722\
 Data File : VX032439.D
 Acq On : 27 Oct 2022 19:23
 Operator : JC/MD
 Sample : N5314-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 221026069-02-VOA

Quant Time: Oct 28 07:14:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 08:28:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	123362	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	198418	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	176653	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	81930	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	83156	48.513	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	97.020%
35) Dibromofluoromethane	5.385	113	64123	45.306	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.620%
50) Toluene-d8	8.647	98	240493	48.866	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.740%
62) 4-Bromofluorobenzene	11.079	95	90309	46.977	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.960%

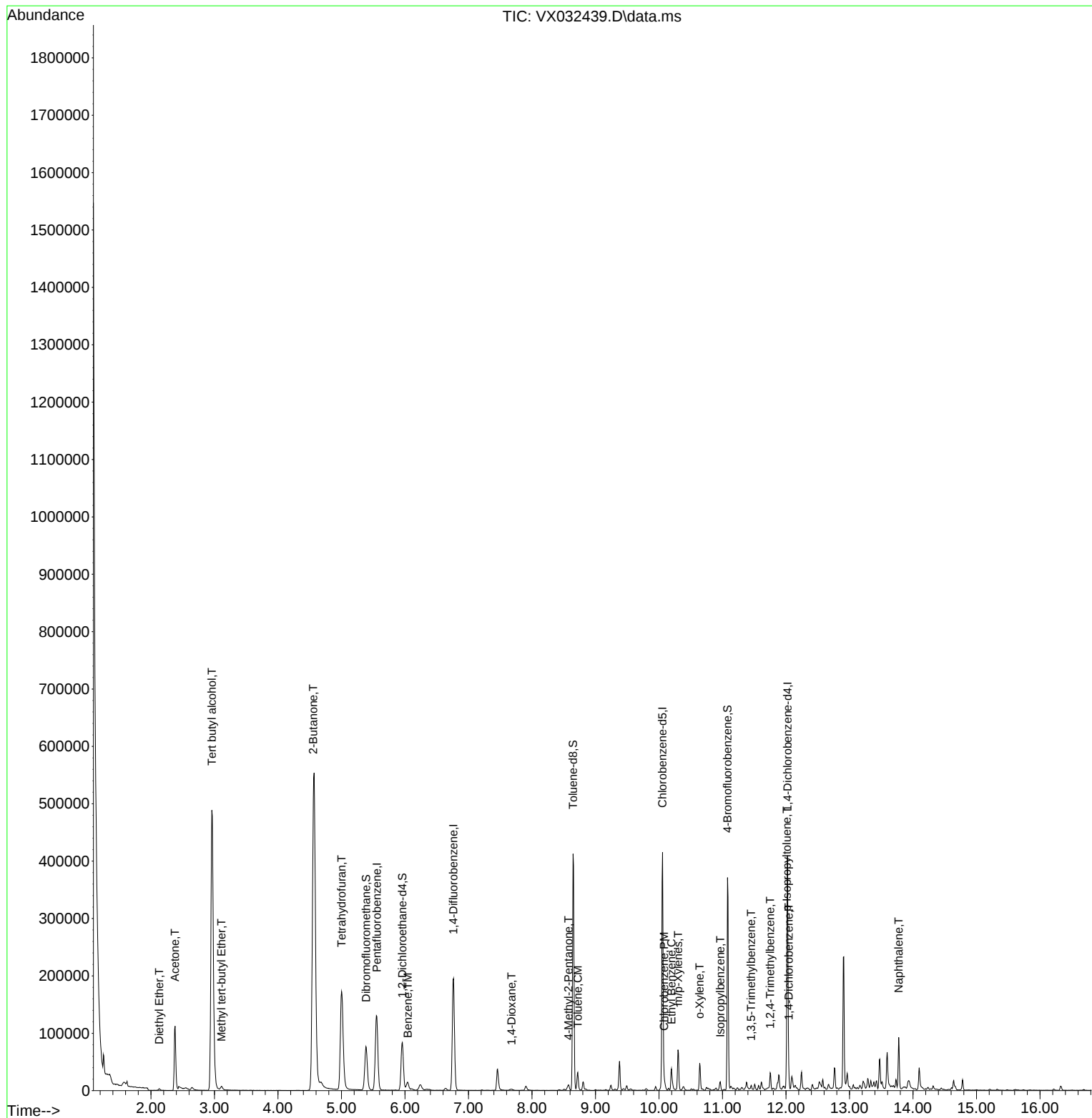
Target Compounds						Qvalue
8) Diethyl Ether	2.130	74	962	1.183	ug/l	72
11) Tert butyl alcohol	2.959	59	646355	2590.775	ug/l	99
16) Acetone	2.380	43	117043	187.873	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	5807	1.335	ug/l #	86
25) 2-Butanone	4.556	43	350563	363.207	ug/l	96
29) Tetrahydrofuran	5.001	42	156811	254.785	ug/l	98
40) Benzene	6.044	78	16110	2.888	ug/l	97
49) 1,4-Dioxane	7.678	88	1652	53.284	ug/l #	71
51) 4-Methyl-2-Pentanone	8.574	43	6814	3.434	ug/l	92
52) Toluene	8.720	92	10044	2.760	ug/l	94
65) Chlorobenzene	10.080	112	5065	1.280	ug/l	91
67) Ethyl Benzene	10.195	91	20646	2.918	ug/l	96
68) m/p-Xylenes	10.299	106	15706	5.716	ug/l	97
69) o-Xylene	10.640	106	9625	3.603	ug/l	97
73) Isopropylbenzene	10.964	105	6612	1.018	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	3098	0.558	ug/l	92
84) 1,2,4-Trimethylbenzene	11.750	105	12479	2.261	ug/l	97
86) p-Isopropyltoluene	12.012	119	8976	1.587	ug/l	97
88) 1,4-Dichlorobenzene	12.043	146	8321	2.671	ug/l	89
95) Naphthalene	13.774	128	47024	7.311	ug/l	100

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

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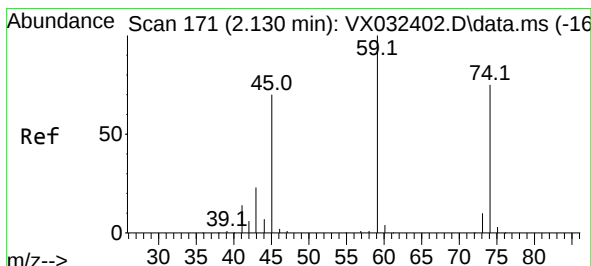
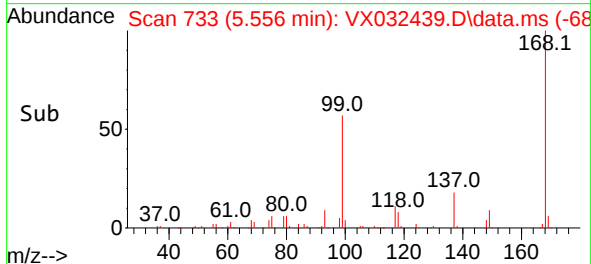
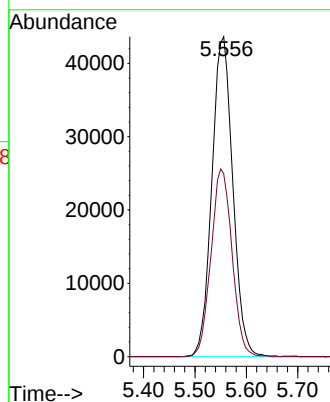
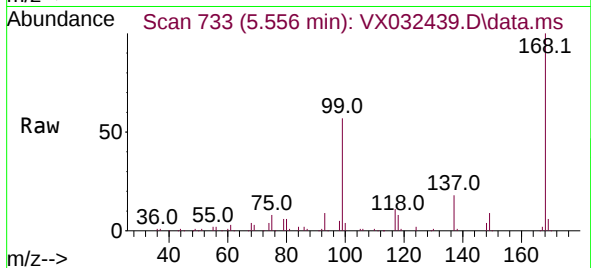




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

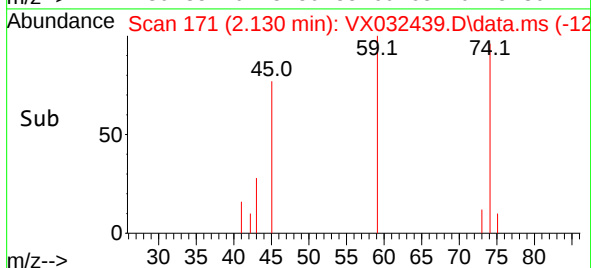
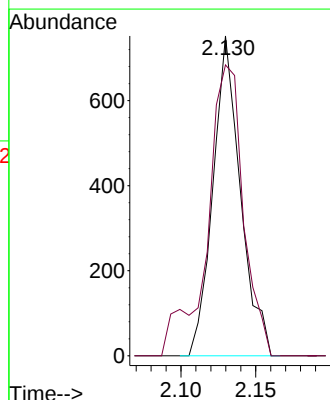
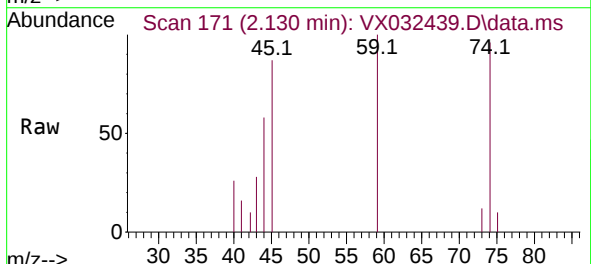
Instrument :
MSVOA_X
ClientSampleId :
221026069-02-VOA

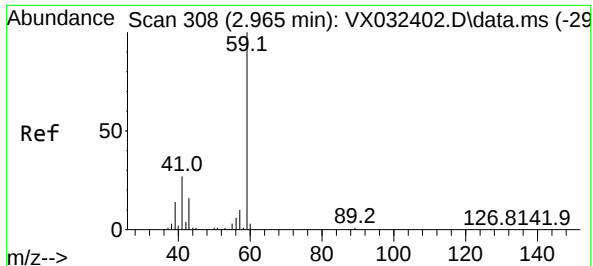
Tgt Ion:168 Resp: 123362
Ion Ratio Lower Upper
168 100
99 57.2 46.1 69.1



#8
Diethyl Ether
Concen: 1.183 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion: 74 Resp: 962
Ion Ratio Lower Upper
74 100
45 119.6 46.6 139.7





#11

Tert butyl alcohol

Concen: 2590.775 ug/l

RT: 2.959 min Scan# 308

Delta R.T. -0.006 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

Instrument :

MSVOA_X

ClientSampleId :

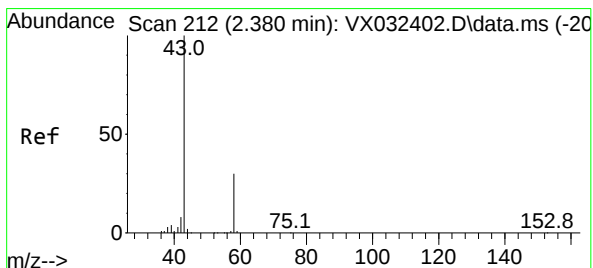
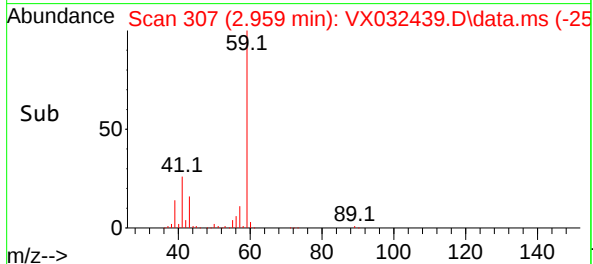
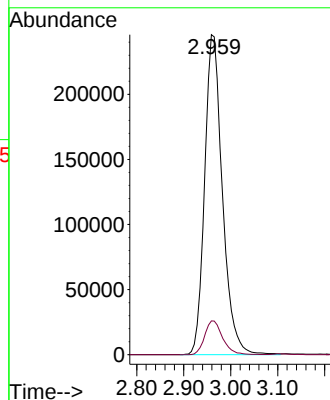
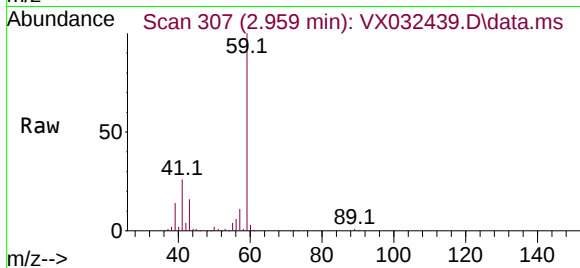
221026069-02-VOA

Tgt Ion: 59 Resp: 646355

Ion Ratio Lower Upper

59 100

57 10.7 8.2 12.4



#16

Acetone

Concen: 187.873 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX032439.D

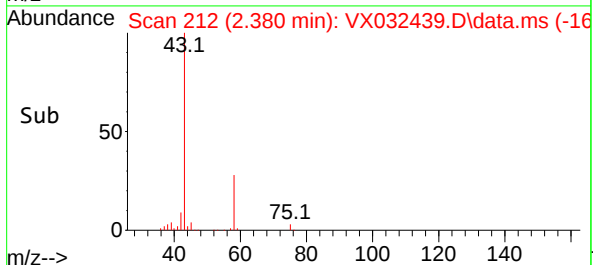
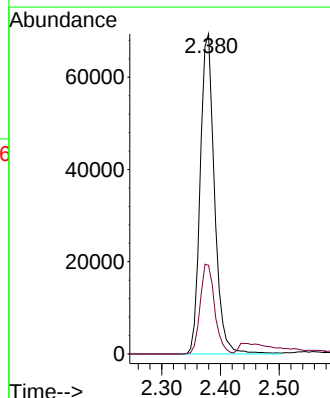
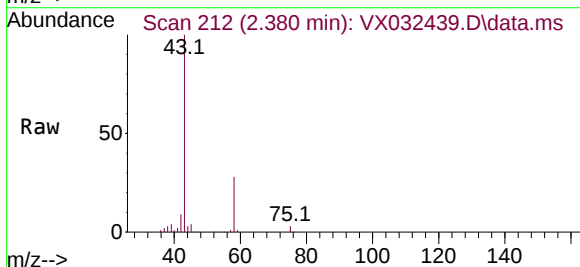
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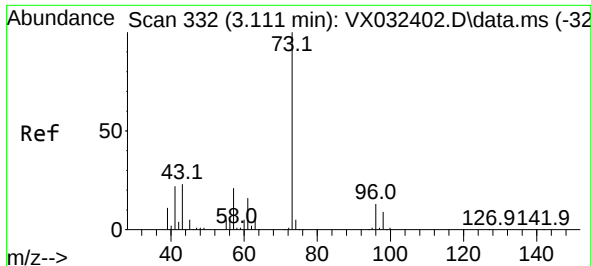
Tgt Ion: 43 Resp: 117043

Ion Ratio Lower Upper

43 100

58 27.7 23.8 35.8

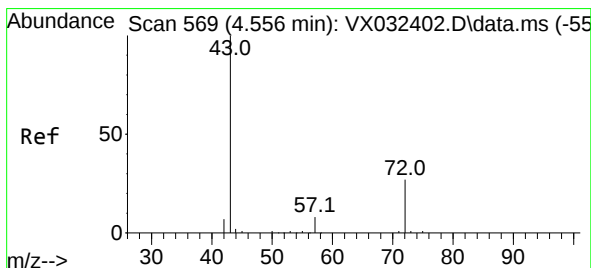
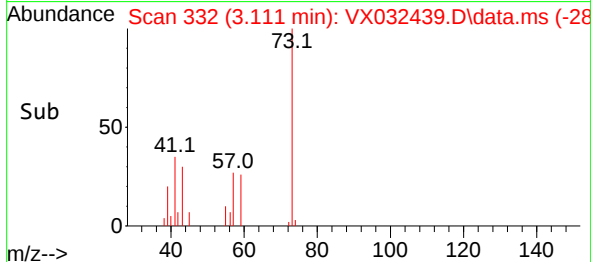
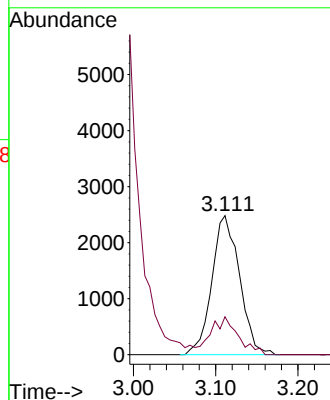
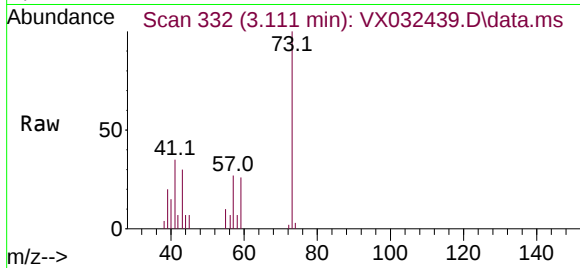




#19
Methyl tert-butyl Ether
Concen: 1.335 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

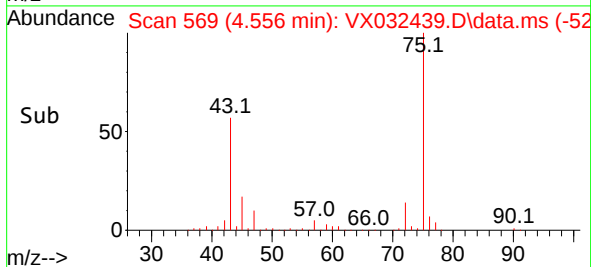
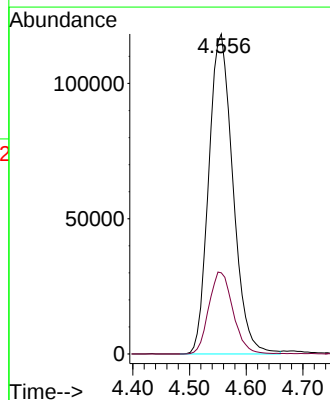
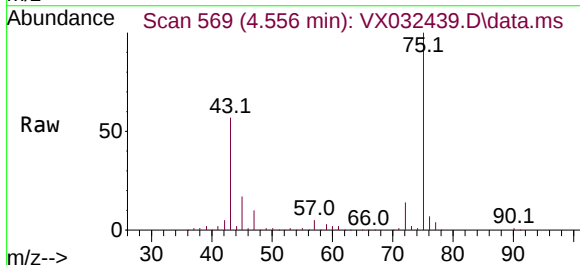
Instrument :
MSVOA_X
ClientSampleId :
221026069-02-VOA

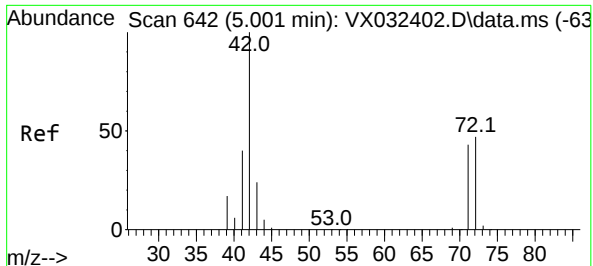
Tgt Ion: 73 Resp: 5807
Ion Ratio Lower Upper
73 100
57 27.3 16.6 25.0#



#25
2-Butanone
Concen: 363.207 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion: 43 Resp: 350563
Ion Ratio Lower Upper
43 100
72 25.4 22.2 33.2





#29

Tetrahydrofuran

Concen: 254.785 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

Instrument :

MSVOA_X

ClientSampleId :

221026069-02-VOA

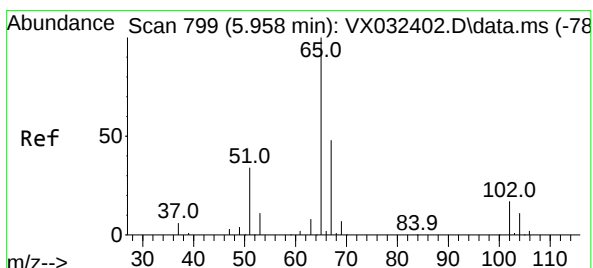
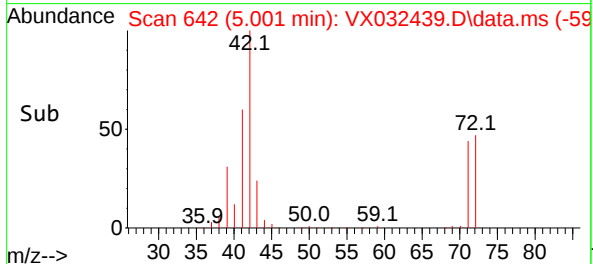
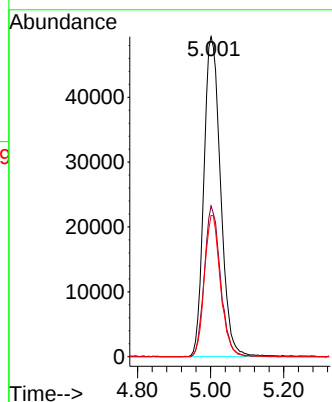
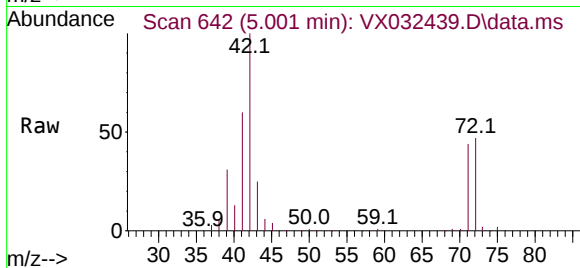
Tgt Ion: 42 Resp: 156811

Ion Ratio Lower Upper

42 100

72 45.3 37.6 56.4

71 42.2 34.7 52.1



#33

1,2-Dichloroethane-d4

Concen: 48.513 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX032439.D

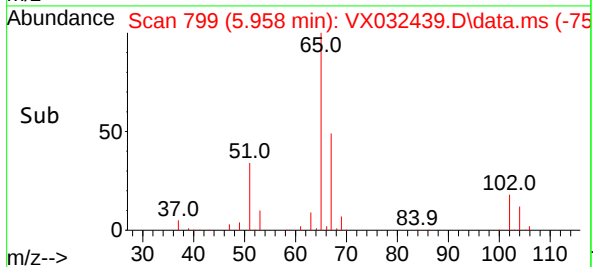
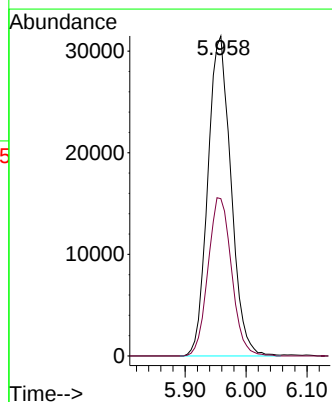
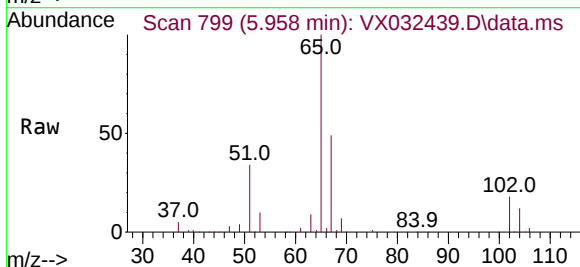
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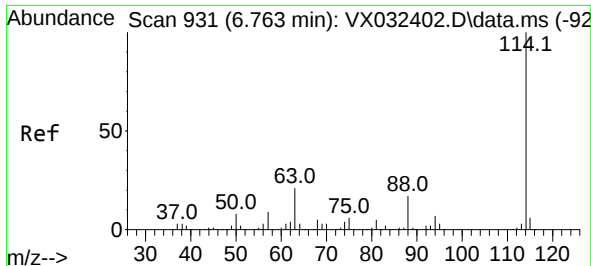
Tgt Ion: 65 Resp: 83156

Ion Ratio Lower Upper

65 100

67 50.2 0.0 101.8

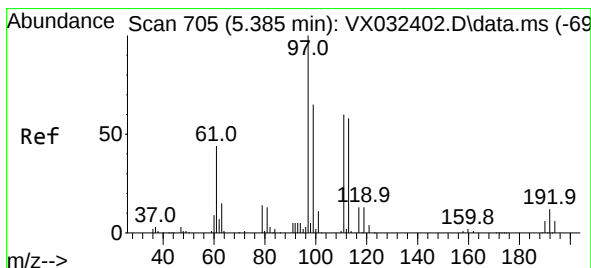
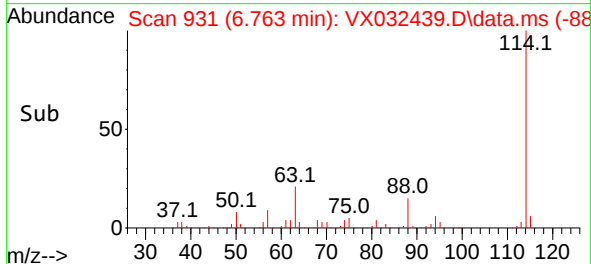
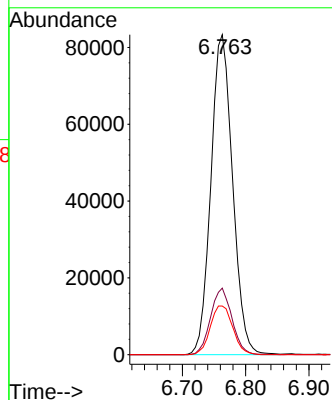
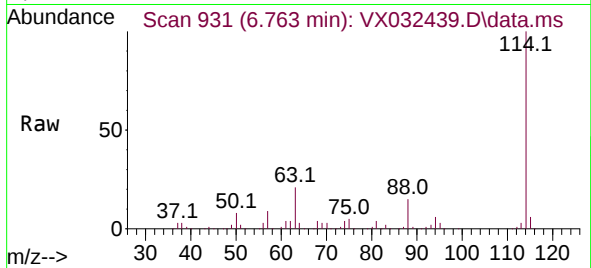




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

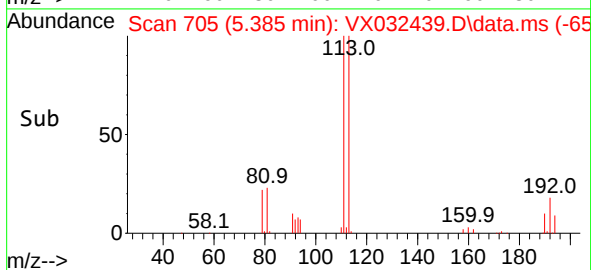
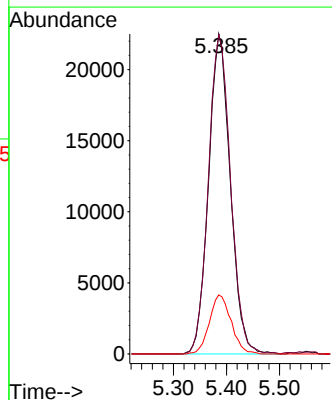
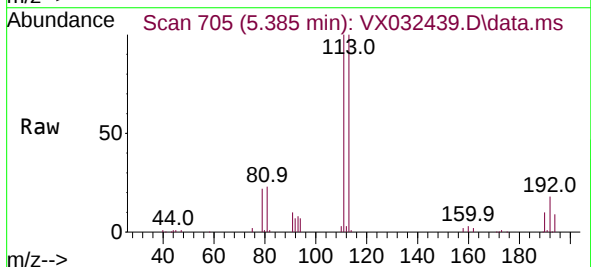
Instrument :
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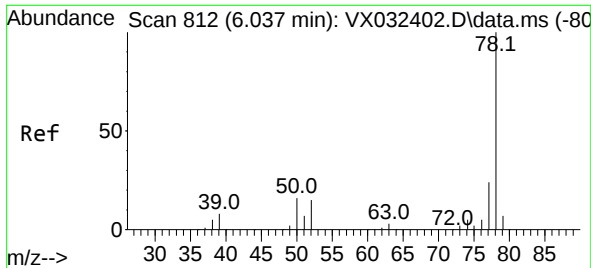
Tgt Ion:114 Resp: 198418
Ion Ratio Lower Upper
114 100
63 20.8 0.0 41.6
88 15.2 0.0 33.4



#35
Dibromofluoromethane
Concen: 45.306 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion:113 Resp: 64123
Ion Ratio Lower Upper
113 100
111 102.1 82.4 123.6
192 18.4 15.4 23.2





#40

Benzene

Concen: 2.888 ug/l

RT: 6.044 min Scan# 81

Delta R.T. 0.006 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

Instrument :

MSVOA_X

ClientSampleId :

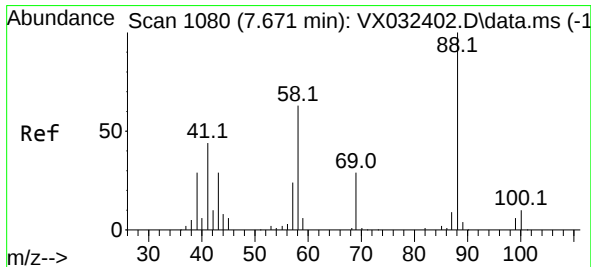
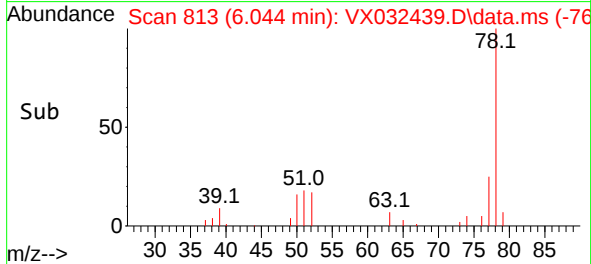
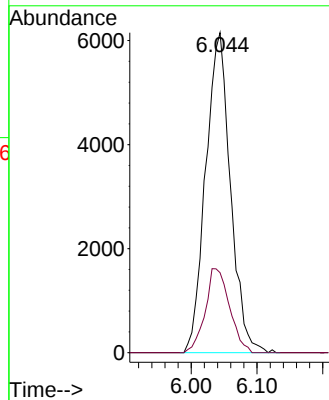
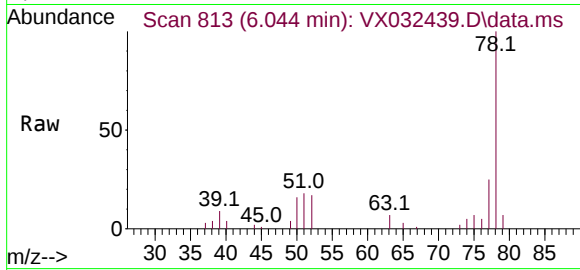
221026069-02-VOA

Tgt Ion: 78 Resp: 16110

Ion Ratio Lower Upper

78 100

77 25.0 19.0 28.4



#49

1,4-Dioxane

Concen: 53.284 ug/l

RT: 7.678 min Scan# 1081

Delta R.T. 0.006 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

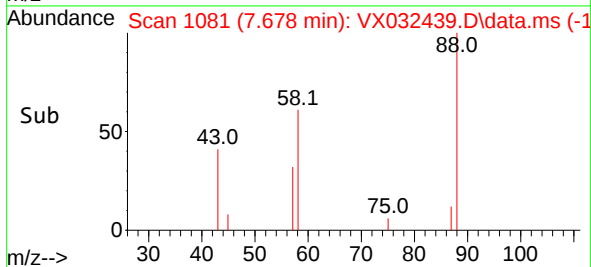
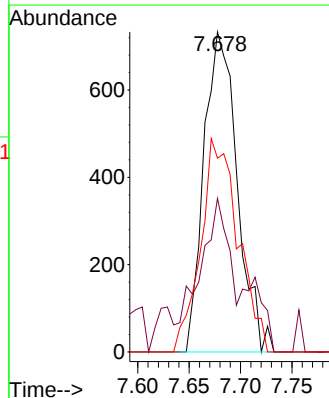
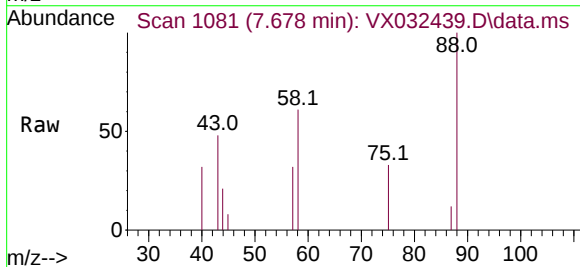
Tgt Ion: 88 Resp: 1652

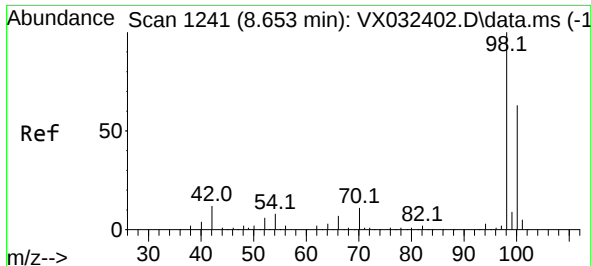
Ion Ratio Lower Upper

88 100

43 0.0 26.6 39.8#

58 74.9 51.7 77.5

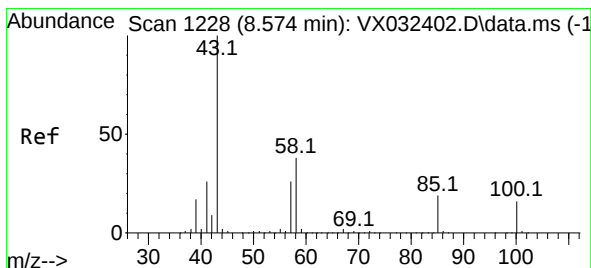
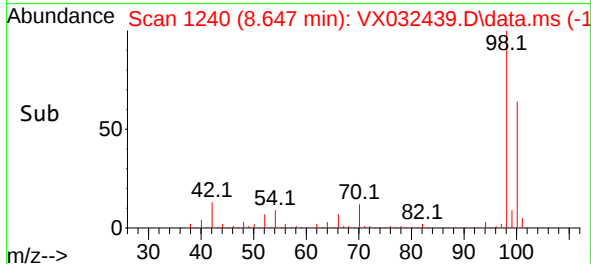
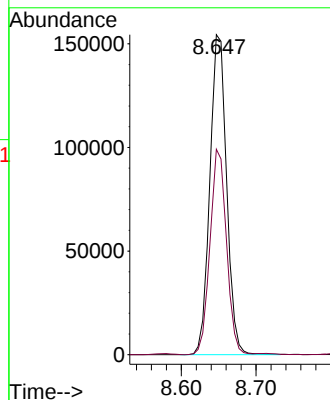
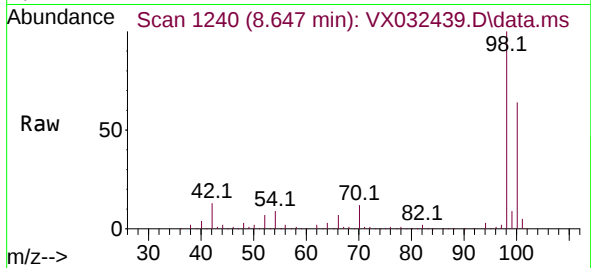




#50
Toluene-d8
Concen: 48.866 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

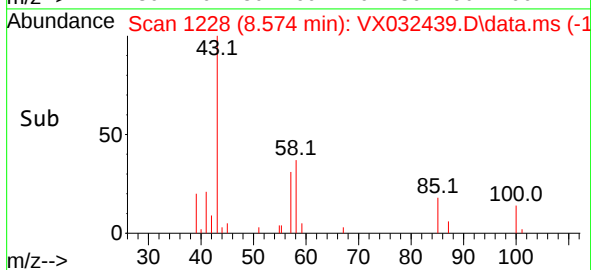
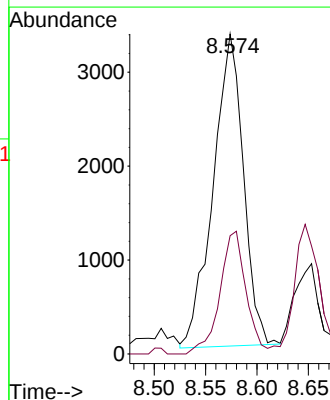
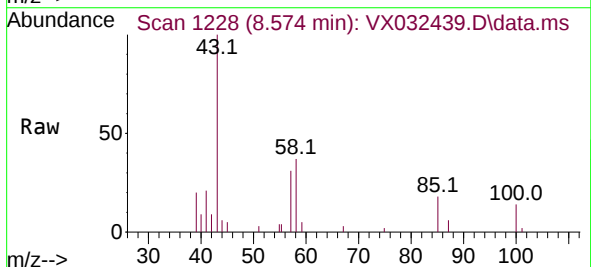
Instrument :
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221026069-02-VOA

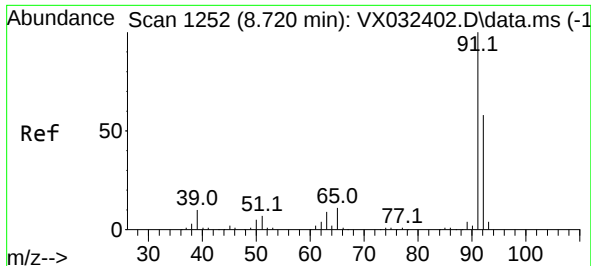
Tgt Ion: 98 Resp: 240493
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 3.434 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion: 43 Resp: 6814
Ion Ratio Lower Upper
43 100
58 33.9 30.9 46.3





#52

Toluene

Concen: 2.760 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

Instrument :

MSVOA_X

ClientSampleId :

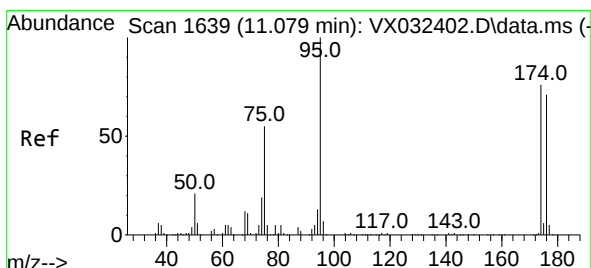
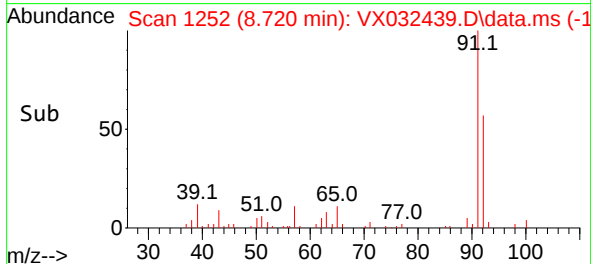
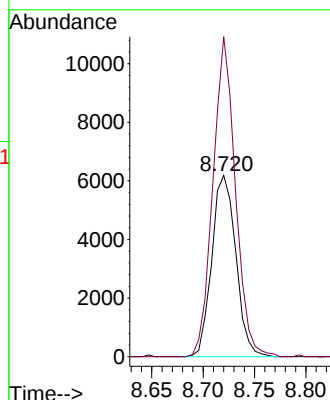
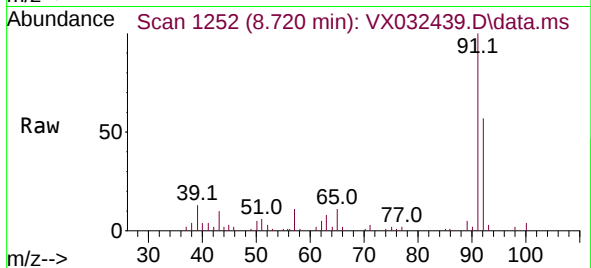
221026069-02-VOA

Tgt Ion: 92 Resp: 10044

Ion Ratio Lower Upper

92 100

91 165.1 138.3 207.5



#62

4-Bromofluorobenzene

Concen: 46.977 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

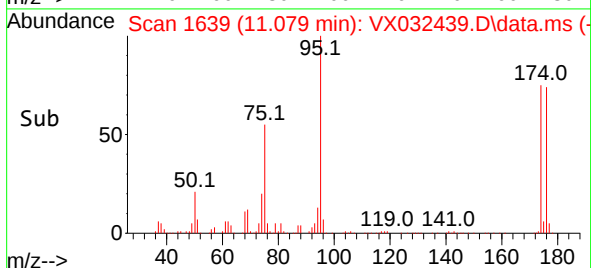
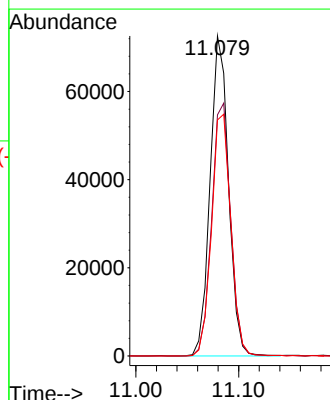
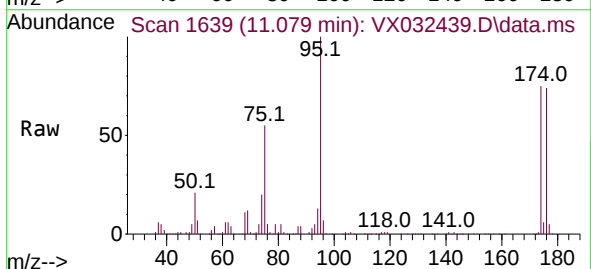
Tgt Ion: 95 Resp: 90309

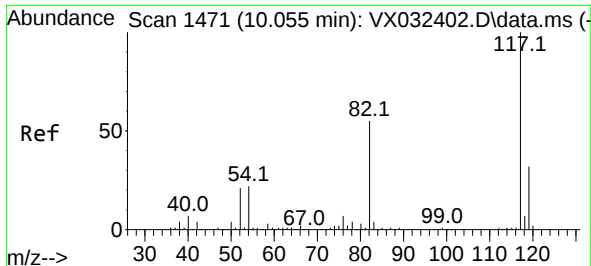
Ion Ratio Lower Upper

95 100

174 81.4 0.0 164.0

176 79.1 0.0 154.4

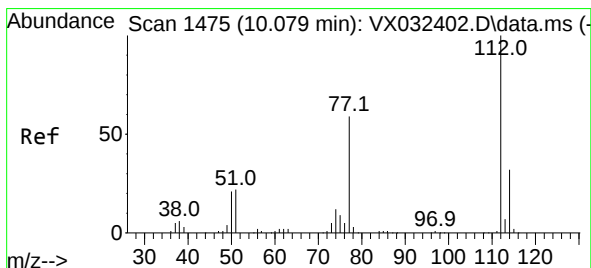
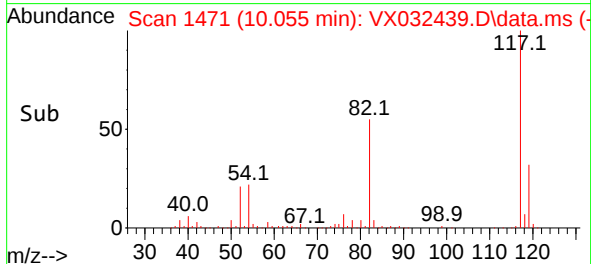
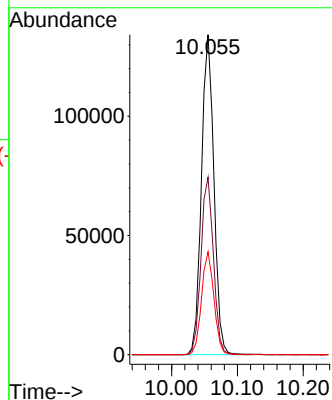
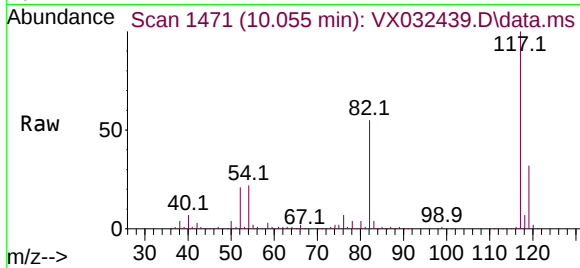




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

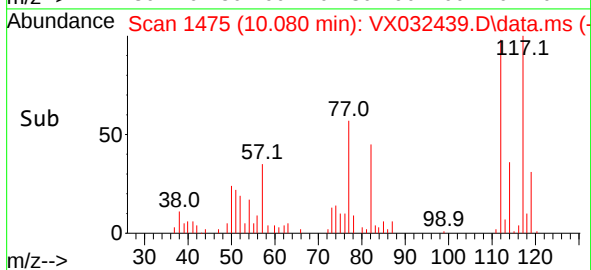
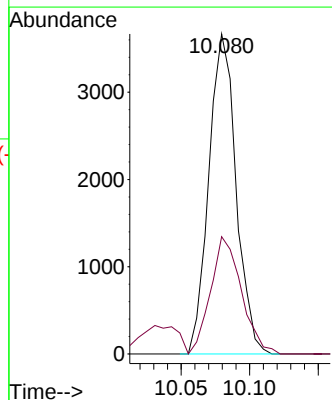
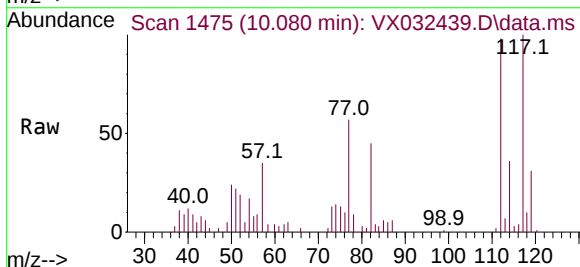
Instrument :
MSVOA_X
ClientSampleId :
221026069-02-VOA

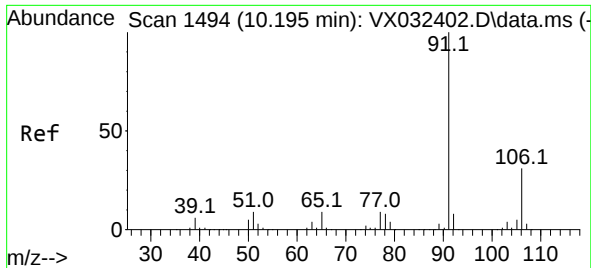
Tgt Ion:117 Resp: 176653
Ion Ratio Lower Upper
117 100
82 55.4 44.3 66.5
119 32.1 25.7 38.5



#65
Chlorobenzene
Concen: 1.280 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion:112 Resp: 5065
Ion Ratio Lower Upper
112 100
114 36.6 25.4 38.2

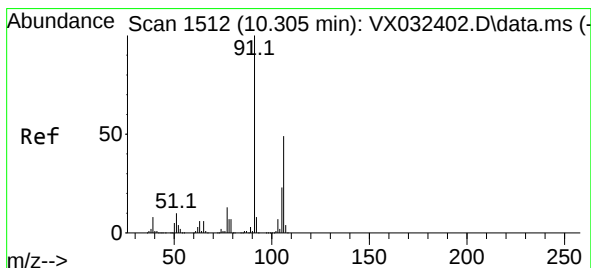
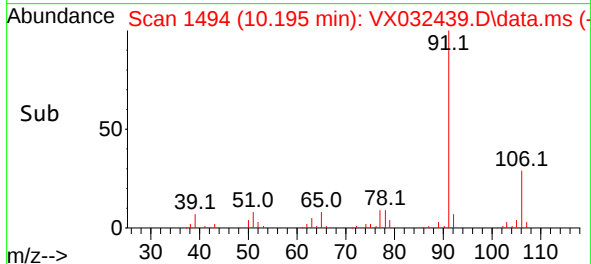
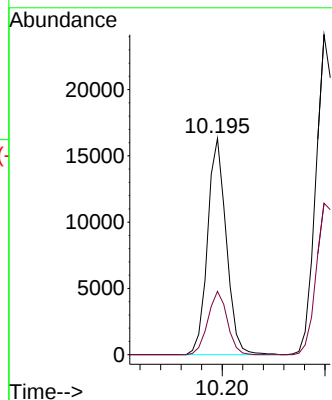
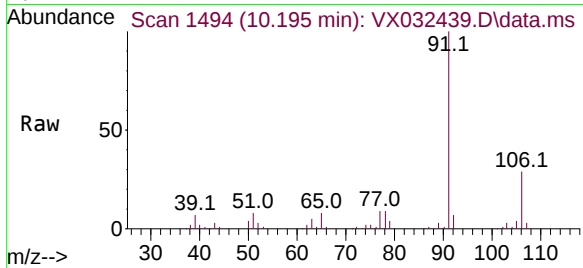




#67
Ethyl Benzene
Concen: 2.918 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

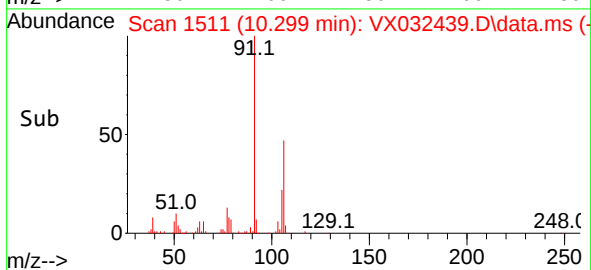
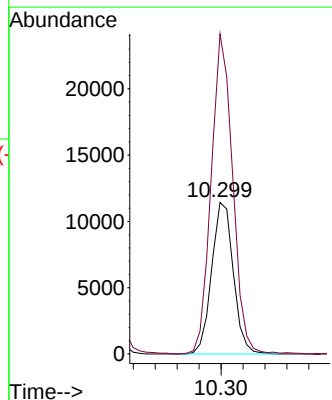
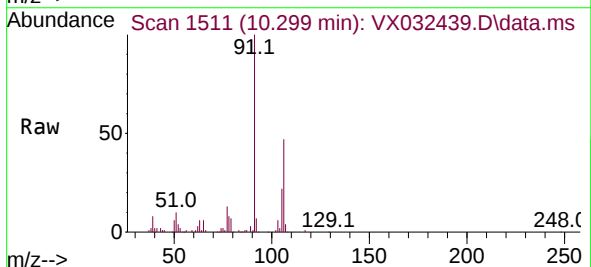
Instrument :
MSVOA_X
ClientSampleId :
221026069-02-VOA

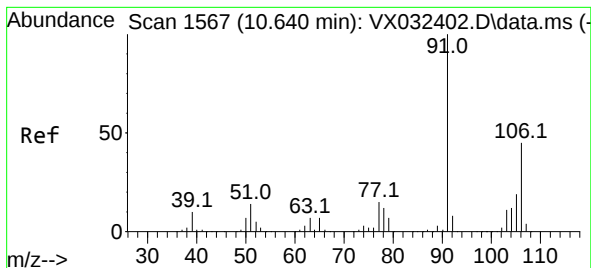
Tgt Ion: 91 Resp: 20646
Ion Ratio Lower Upper
91 100
106 29.3 25.0 37.6



#68
m/p-Xylenes
Concen: 5.716 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion: 106 Resp: 15706
Ion Ratio Lower Upper
106 100
91 209.9 164.5 246.7





#69

o-Xylene

Concen: 3.603 ug/l

RT: 10.640 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

Instrument :

MSVOA_X

ClientSampleId :

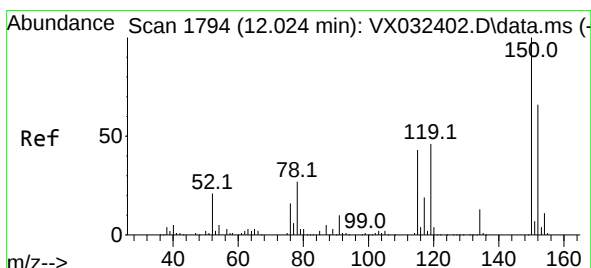
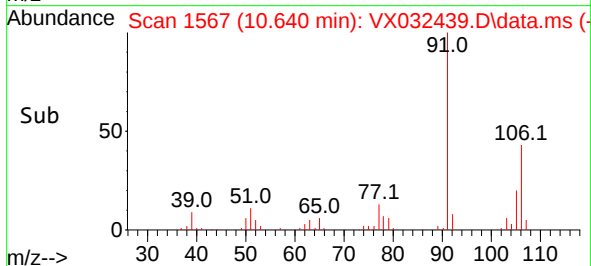
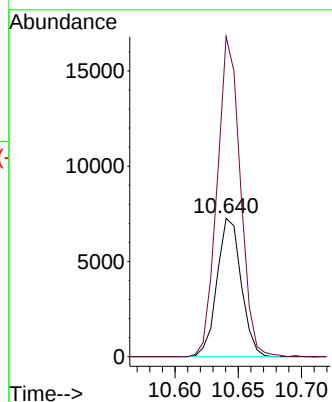
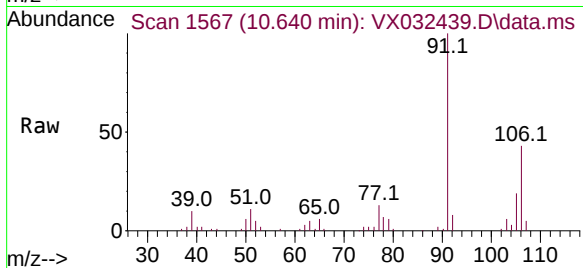
221026069-02-VOA

Tgt Ion:106 Resp: 9625

Ion Ratio Lower Upper

106 100

91 222.7 109.2 327.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

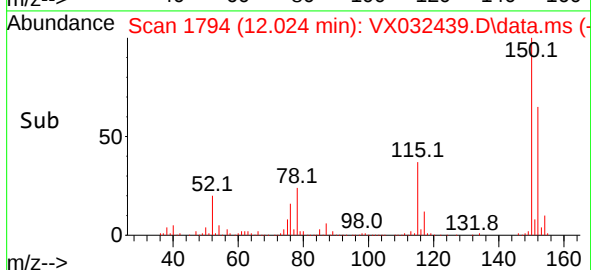
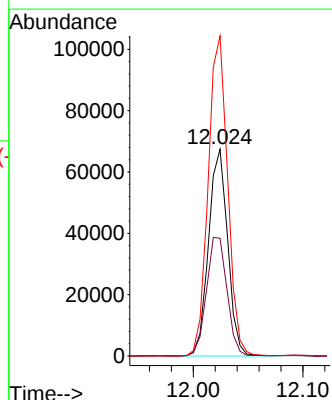
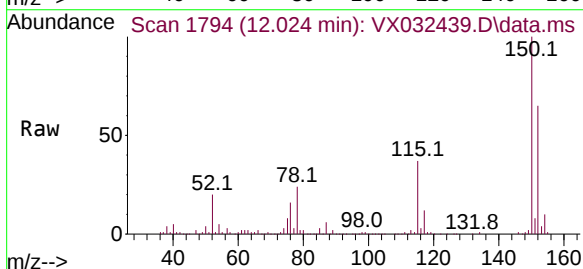
Tgt Ion:152 Resp: 81930

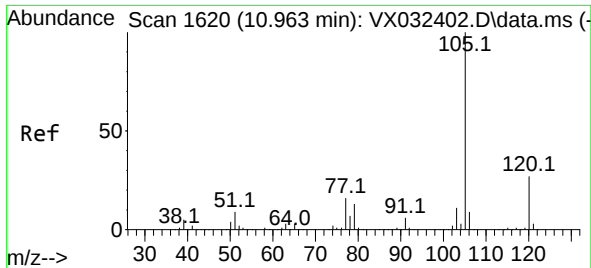
Ion Ratio Lower Upper

152 100

115 61.5 44.0 132.0

150 157.1 0.0 351.8

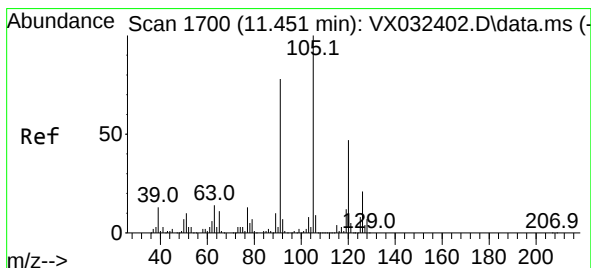
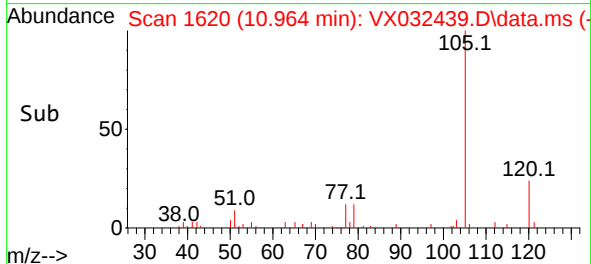
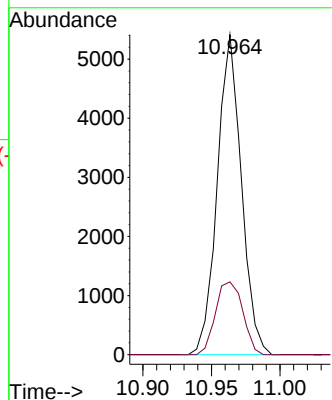
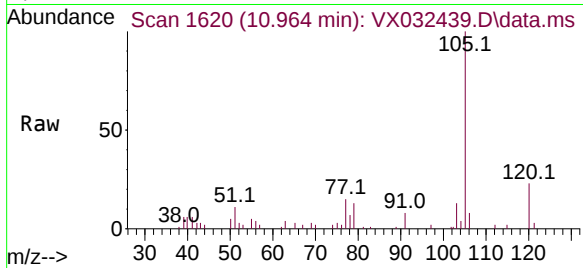




#73
Isopropylbenzene
Concen: 1.018 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

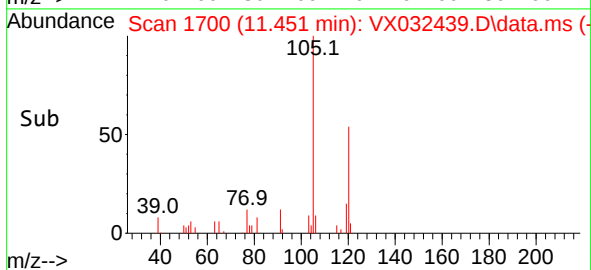
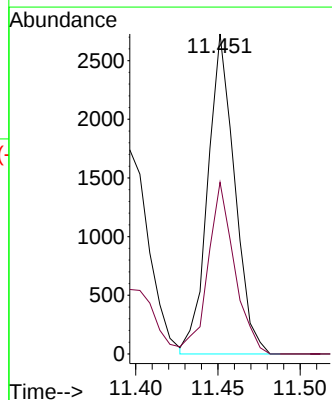
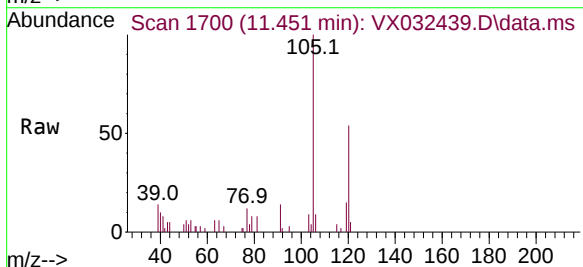
Instrument :
MSVOA_X
ClientSampleId :
221026069-02-VOA

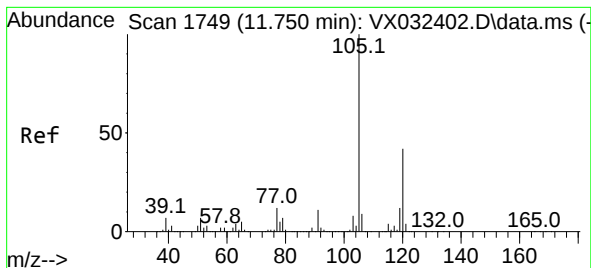
Tgt Ion:105 Resp: 6612
Ion Ratio Lower Upper
105 100
120 25.7 13.1 39.3



#80
1,3,5-Trimethylbenzene
Concen: 0.558 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion:105 Resp: 3098
Ion Ratio Lower Upper
105 100
120 52.6 23.6 71.0





#84

1,2,4-Trimethylbenzene

Concen: 2.261 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

Instrument :

MSVOA_X

ClientSampleId :

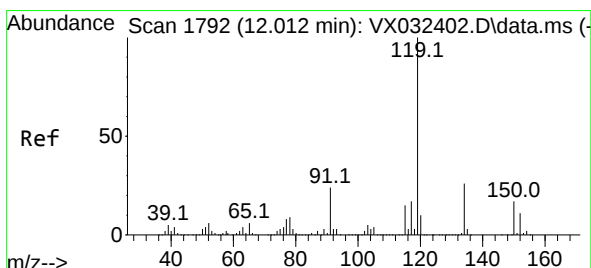
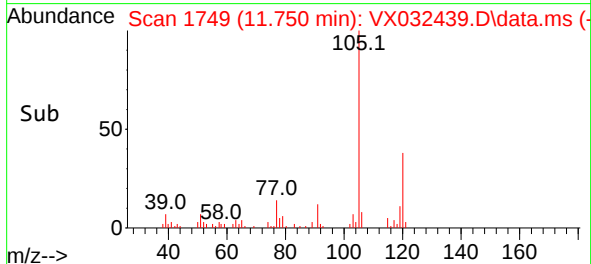
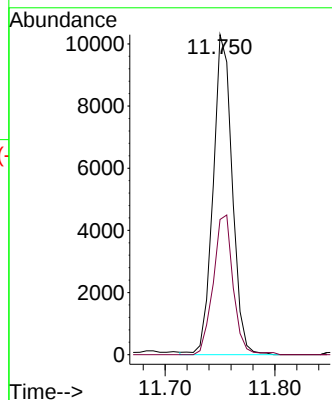
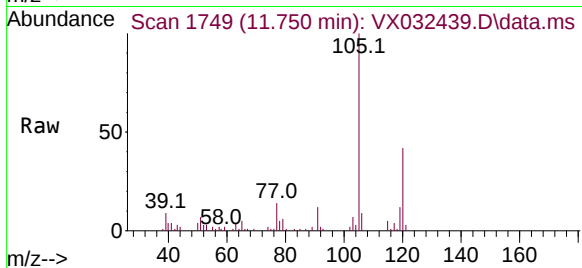
221026069-02-VOA

Tgt Ion:105 Resp: 12479

Ion Ratio Lower Upper

105 100

120 45.5 21.9 65.5



#86

p-Isopropyltoluene

Concen: 1.587 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.000 min

Lab File: VX032439.D

Acq: 27 Oct 2022 19:23

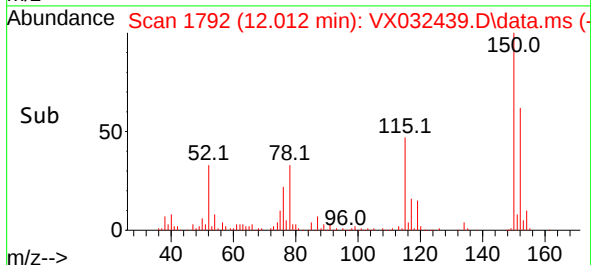
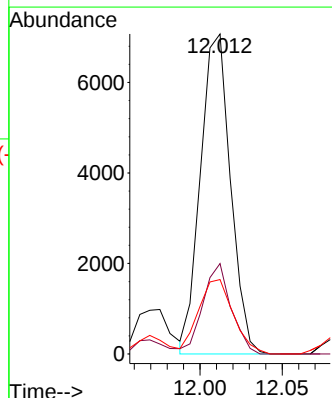
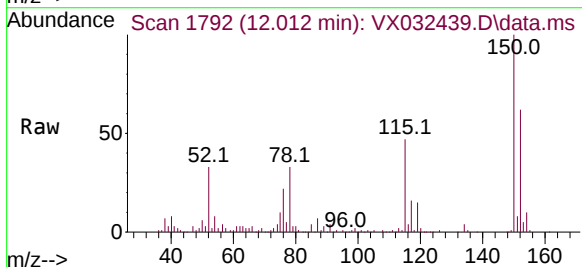
Tgt Ion:119 Resp: 8976

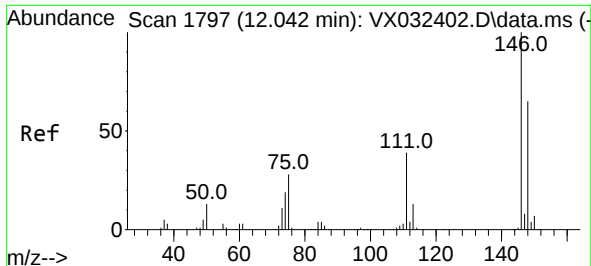
Ion Ratio Lower Upper

119 100

134 26.4 12.9 38.7

91 27.0 12.5 37.5

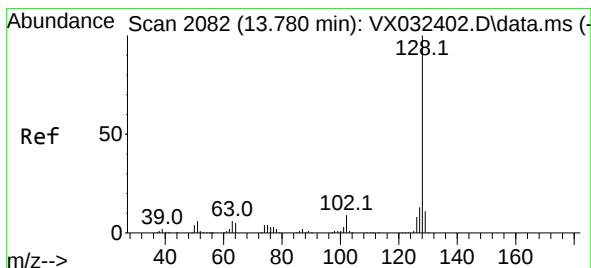
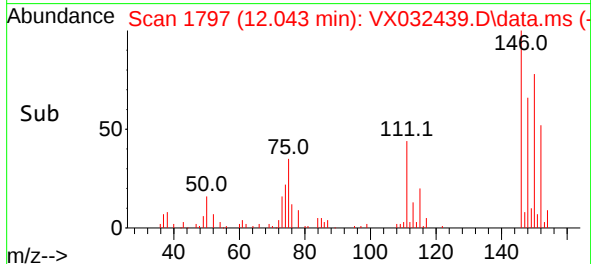
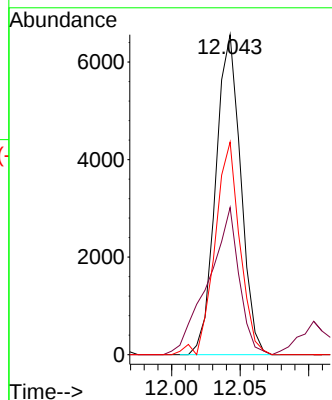
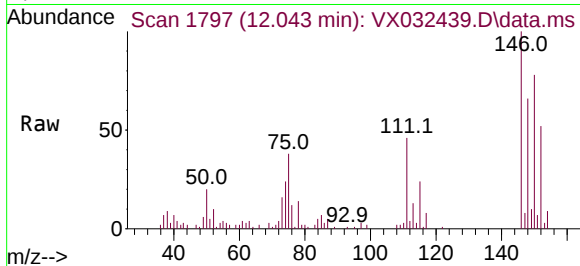




#88
1,4-Dichlorobenzene
Concen: 2.671 ug/l
RT: 12.043 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Instrument :
MSVOA_X
ClientSampleId :
221026069-02-VOA

Tgt Ion:146 Resp: 8321
Ion Ratio Lower Upper
146 100
111 56.7 20.5 61.6
148 66.2 32.2 96.6



#95
Naphthalene
Concen: 7.311 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.006 min
Lab File: VX032439.D
Acq: 27 Oct 2022 19:23

Tgt Ion:128 Resp: 47024
Ion Ratio Lower Upper
128 100
127 12.9 10.2 15.4
129 10.9 8.9 13.3

