

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051624\
 Data File : VX041569.D
 Acq On : 16 May 2024 17:24
 Operator : JC/MD
 Sample : P2502-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240515064-02-VOA

Quant Time: May 17 02:41:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

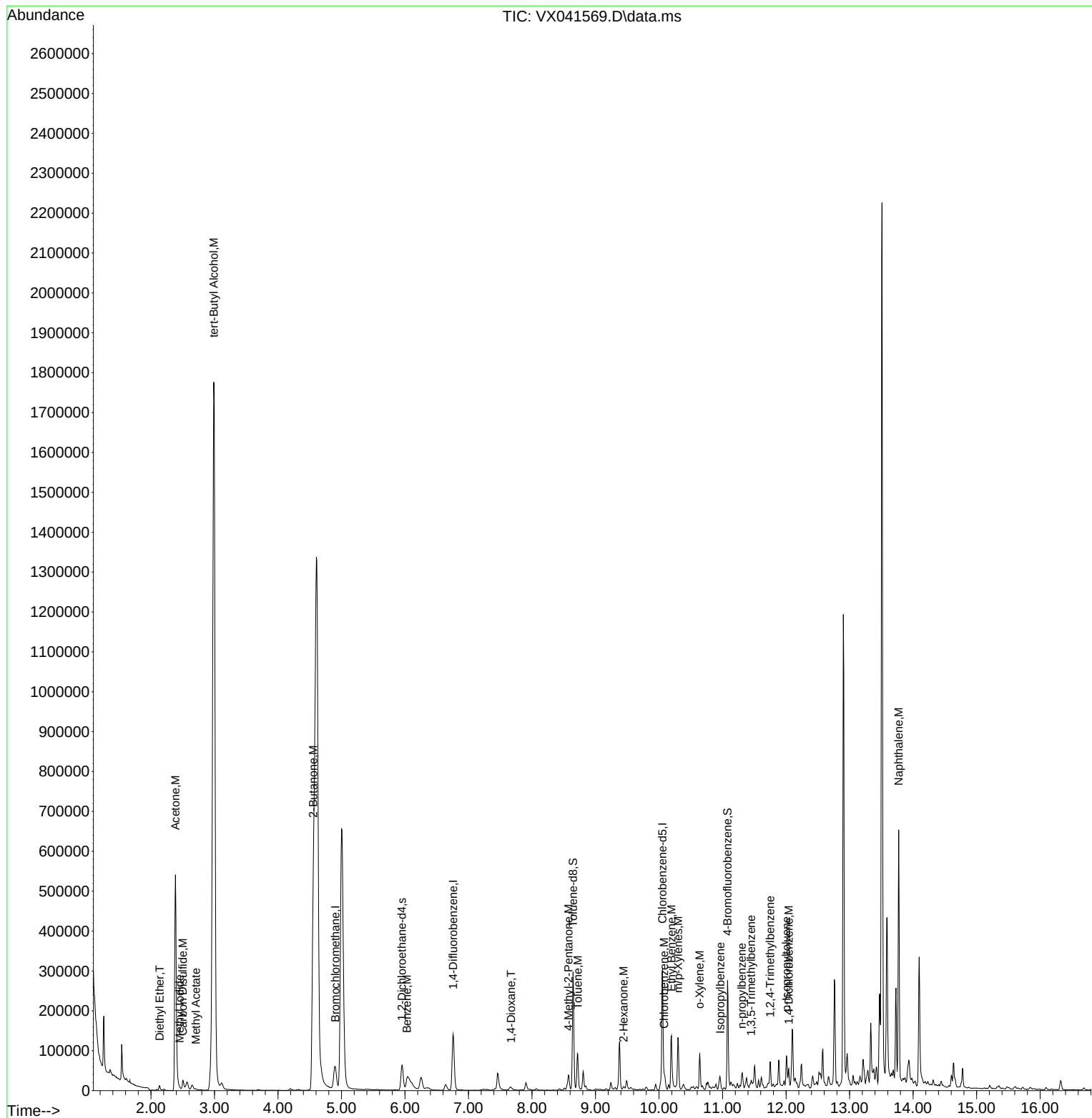
Internal Standards						
1) Bromochloromethane	4.903	128	27362	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	149004	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	137837	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	62757	29.125	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.100%		
60) 4-Bromofluorobenzene	11.079	95	65831	30.594	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.967%		
63) Toluene-d8	8.647	98	175535	29.709	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.033%		
Target Compounds						Qvalue
8) Diethyl Ether	2.136	74	3802	4.065	ug/l	89
11) Methyl Iodide	2.453	142	698	0.419	ug/l	92
12) Methyl Acetate	2.709	43	3039m	1.441	ug/l	
15) Acetone	2.386	58	174702	703.411	ug/l	98
16) Carbon Disulfide	2.501	76	26619	8.422	ug/l	100
23) tert-Butyl Alcohol	2.989	59	2592616	6590.716	ug/l #	100
30) 2-Butanone	4.556	43	894866	683.997	ug/l	97
34) Benzene	6.031	78	34957	5.616	ug/l	97
45) 1,4-Dioxane	7.671	88	5202m	120.881	ug/l	
58) 4-Methyl-2-Pentanone	8.574	43	25828	10.255	ug/l	92
59) 2-Hexanone	9.439	43	5087	2.535	ug/l #	79
62) Toluene	8.720	91	51974	7.578	ug/l	100
64) Chlorobenzene	10.079	112	9375	2.012	ug/l	94
66) Ethyl Benzene	10.195	91	80923	10.625	ug/l	96
67) m/p-Xylenes	10.299	106	29027	9.747	ug/l	92
68) o-Xylene	10.640	106	19166	6.393	ug/l	98
70) Isopropylbenzene	10.963	105	12830	1.694	ug/l	98
74) n-propylbenzene	11.305	91	5568	0.652	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	6372	0.986	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	27375	4.224	ug/l	97
82) p-Isopropyltoluene	12.006	119	27228	3.868	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	14526	3.601	ug/l	99
91) Naphthalene	13.774	128	361700	44.205	ug/l	99

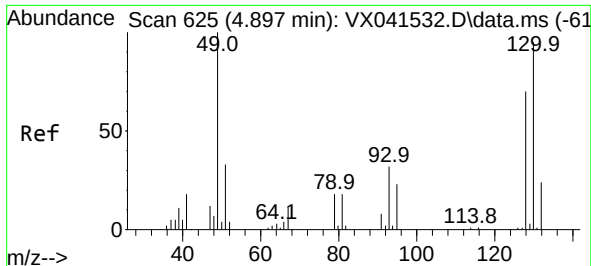
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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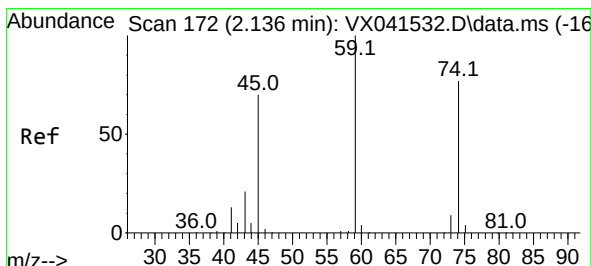
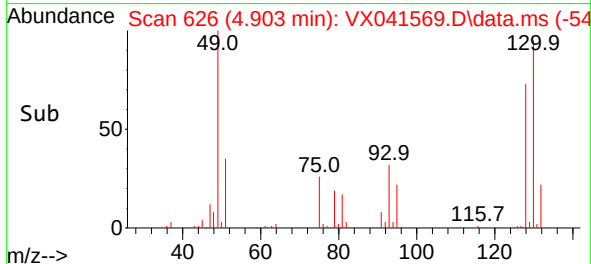
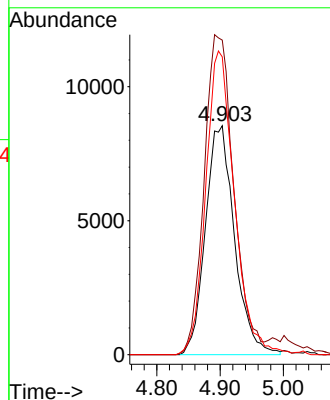
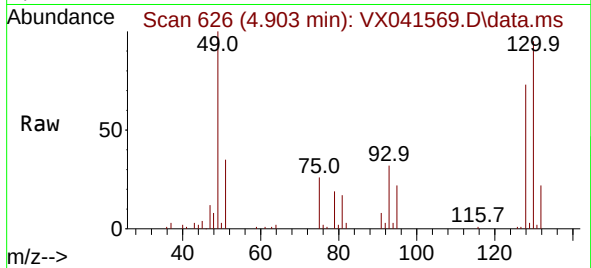




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

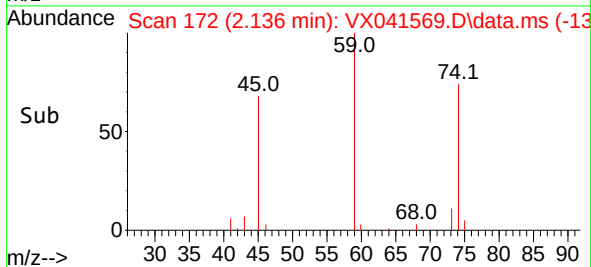
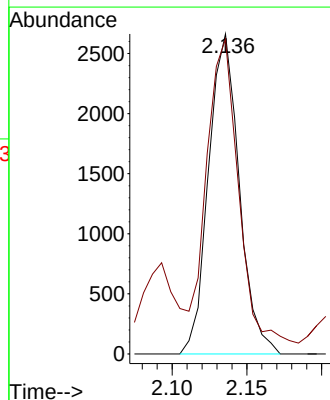
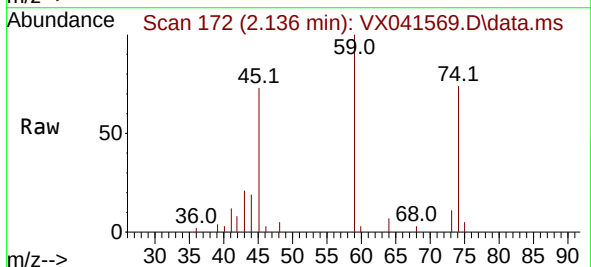
Instrument :
MSVOA_X
ClientSampleId :
240515064-02-VOA

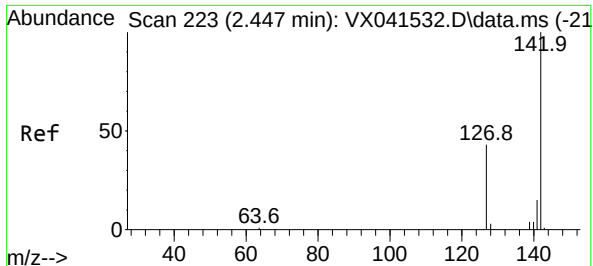
Tgt Ion:128 Resp: 27362
Ion Ratio Lower Upper
128 100
49 142.5 0.0 361.5
130 130.8 0.0 324.3



#8
Diethyl Ether
Concen: 4.065 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Tgt Ion: 74 Resp: 3802
Ion Ratio Lower Upper
74 100
45 103.1 18.6 167.4

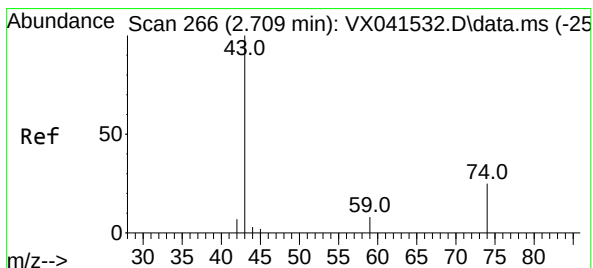
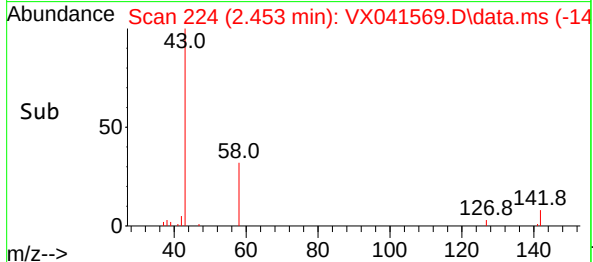
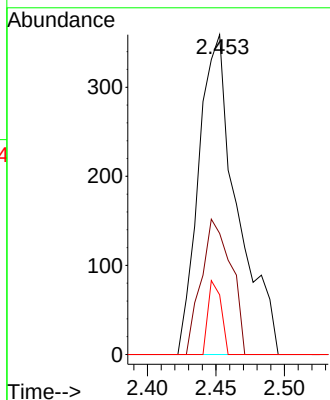
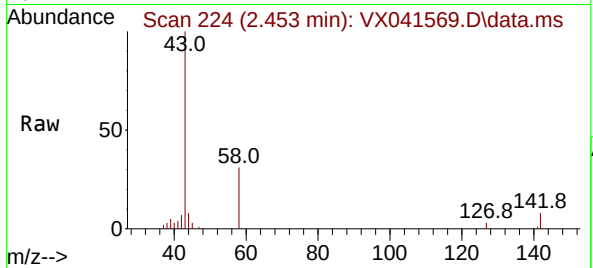




#11
Methyl Iodide
Concen: 0.419 ug/l
RT: 2.453 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

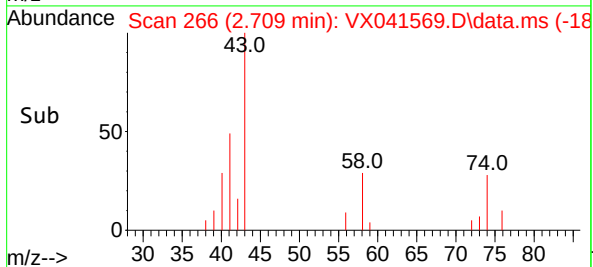
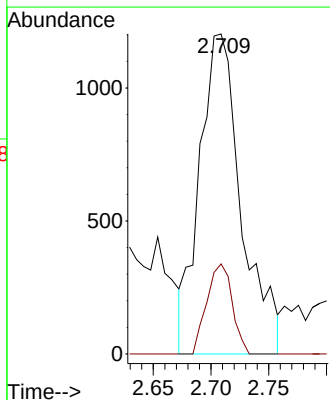
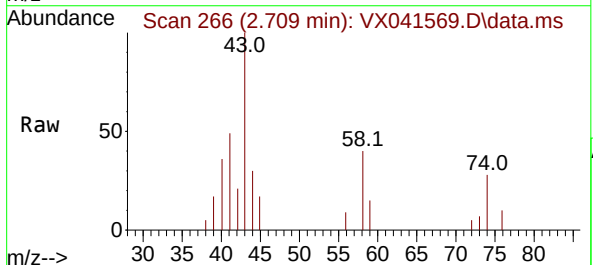
Instrument :
MSVOA_X
ClientSampleId :
240515064-02-VOA

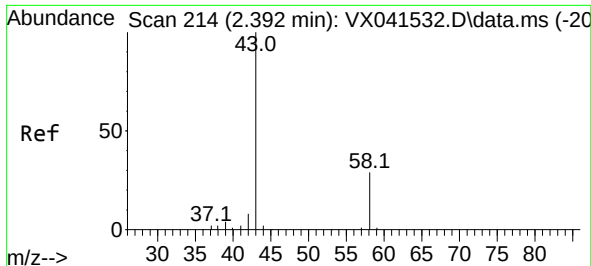
Tgt Ion:142 Resp: 698
Ion Ratio Lower Upper
142 100
127 37.9 21.4 64.2
141 18.7 7.6 22.8



#12
Methyl Acetate
Concen: 1.441 ug/l m
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Tgt Ion: 43 Resp: 3039
Ion Ratio Lower Upper
43 100
74 28.2 19.9 29.9





#15

Acetone

Concen: 703.411 ug/l

RT: 2.386 min Scan# 214

Delta R.T. -0.006 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

Instrument :

MSVOA_X

ClientSampleId :

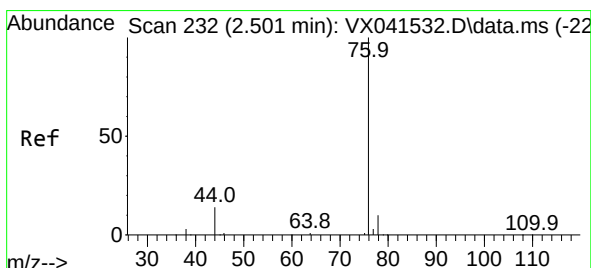
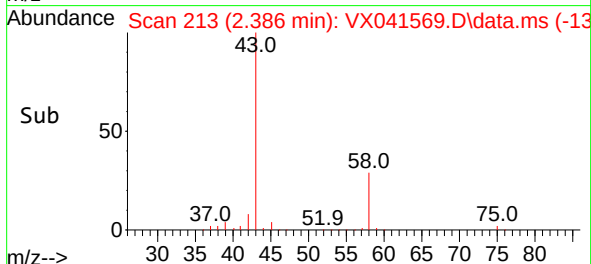
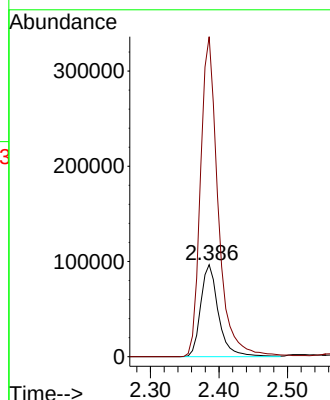
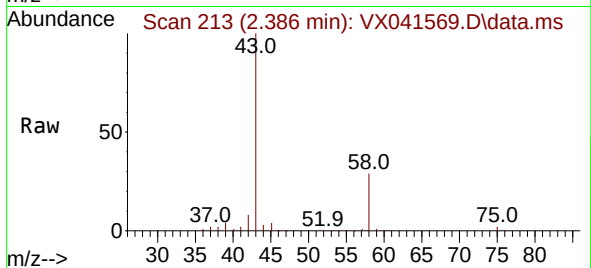
240515064-02-VOA

Tgt Ion: 58 Resp: 174702

Ion Ratio Lower Upper

58 100

43 347.7 274.0 411.0



#16

Carbon Disulfide

Concen: 8.422 ug/l

RT: 2.501 min Scan# 232

Delta R.T. 0.000 min

Lab File: VX041569.D

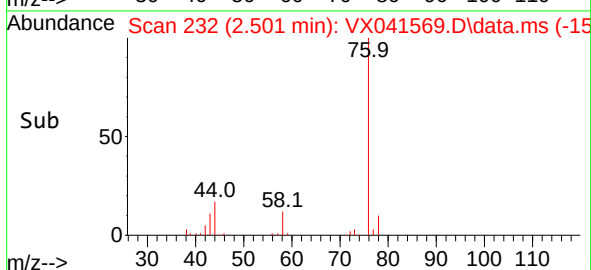
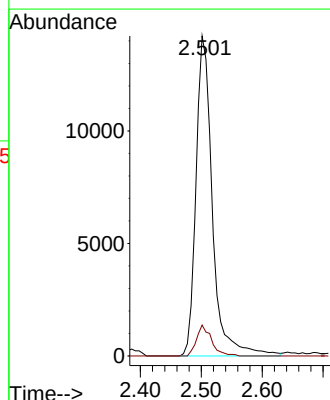
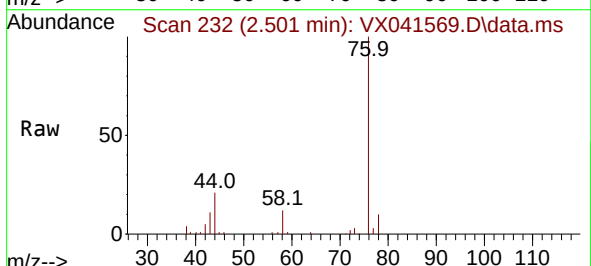
Acq: 16 May 2024 17:24

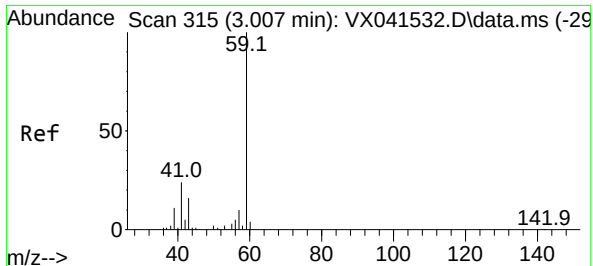
Tgt Ion: 76 Resp: 26619

Ion Ratio Lower Upper

76 100

78 9.6 7.6 11.4





#23

tert-Butyl Alcohol

Concen: 6590.716 ug/l

RT: 2.989 min Scan# 315

Delta R.T. -0.018 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

Instrument :

MSVOA_X

ClientSampleId :

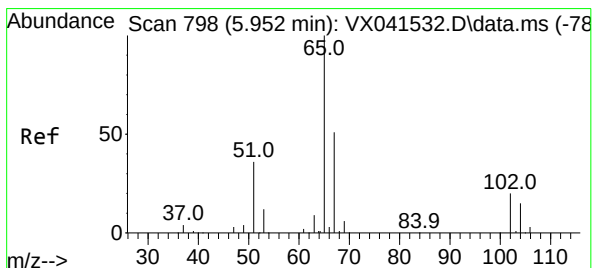
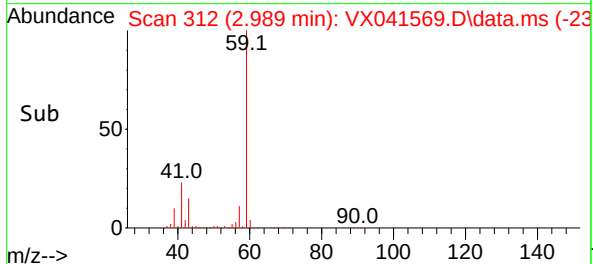
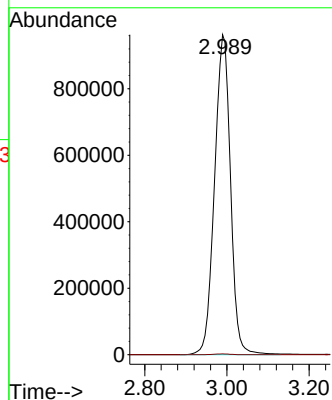
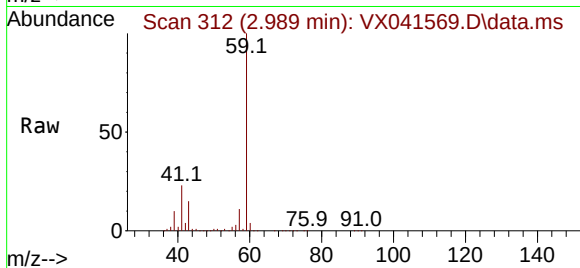
240515064-02-VOA

Tgt Ion: 59 Resp: 2592616

Ion Ratio Lower Upper

59 100

52 0.2 0.0 0.0#



#27

1,2-Dichloroethane-d4

Concen: 29.125 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX041569.D

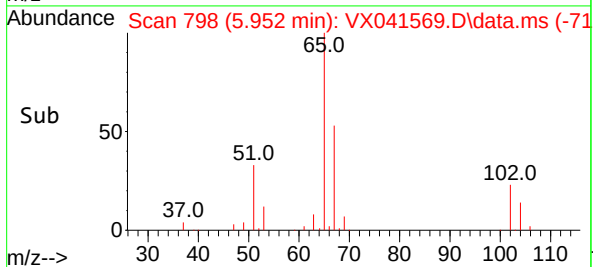
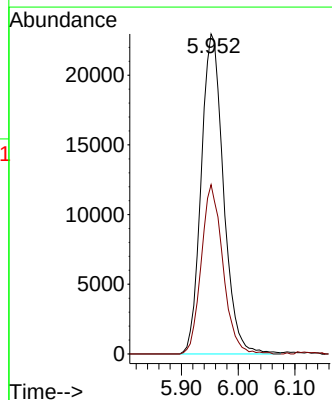
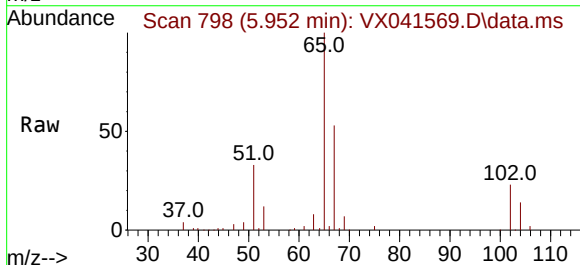
Acq: 16 May 2024 17:24

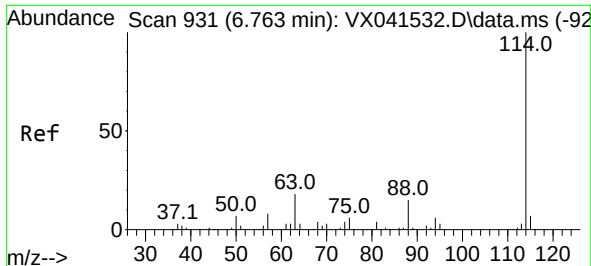
Tgt Ion: 65 Resp: 62757

Ion Ratio Lower Upper

65 100

67 51.1 40.8 61.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

Instrument :

MSVOA_X

ClientSampleId :

240515064-02-VOA

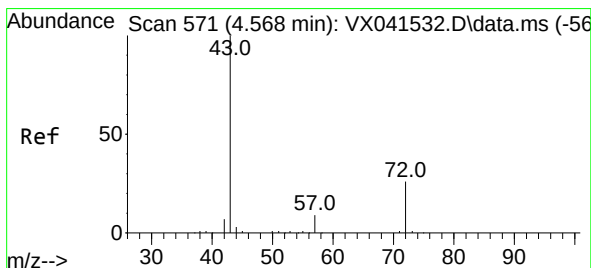
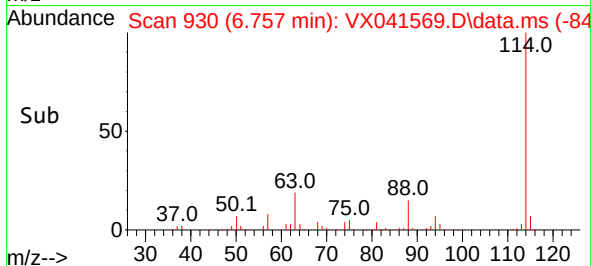
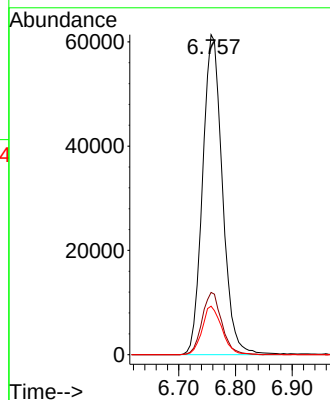
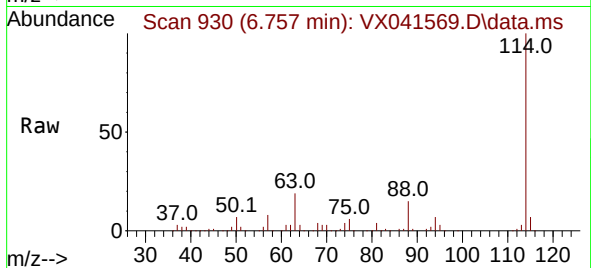
Tgt Ion:114 Resp: 149004

Ion Ratio Lower Upper

114 100

63 19.3 15.4 23.0

88 15.1 12.2 18.2



#30

2-Butanone

Concen: 683.997 ug/l

RT: 4.556 min Scan# 569

Delta R.T. -0.012 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

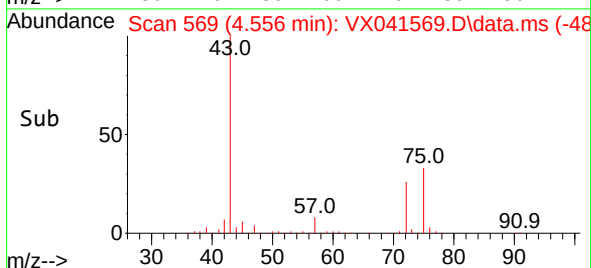
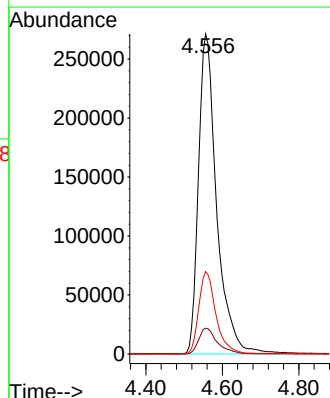
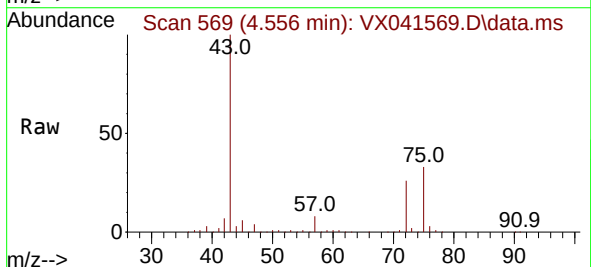
Tgt Ion: 43 Resp: 894866

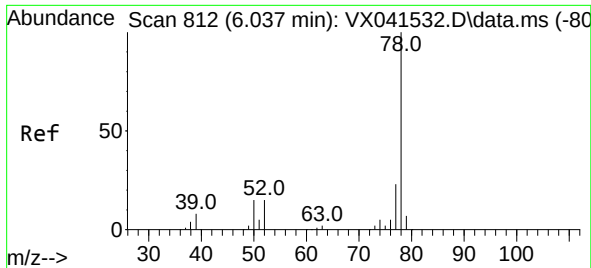
Ion Ratio Lower Upper

43 100

57 8.3 6.6 10.0

72 24.2 20.7 31.1





#34

Benzene

Concen: 5.616 ug/l

RT: 6.031 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX041569.D

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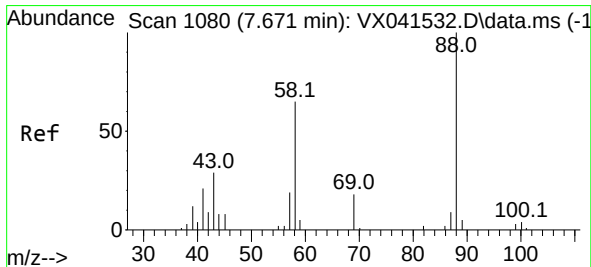
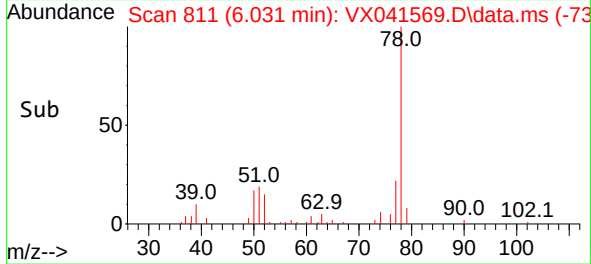
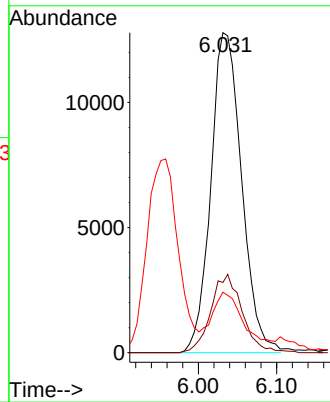
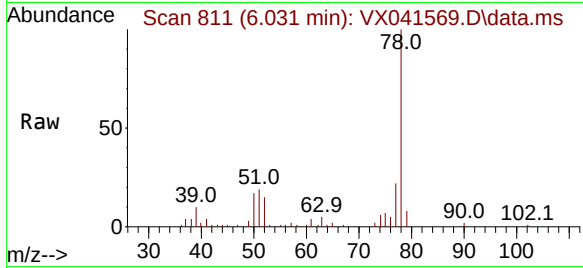
Tgt Ion: 78 Resp: 34957

Ion Ratio Lower Upper

78 100

77 21.9 18.6 28.0

51 14.0 12.4 18.6



#45

1,4-Dioxane

Concen: 120.881 ug/l m

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

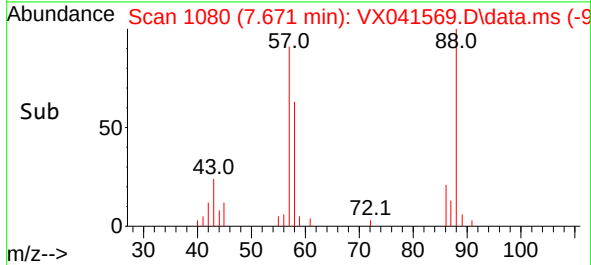
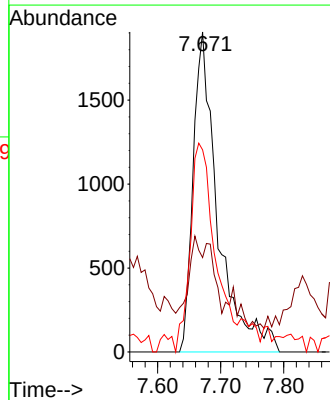
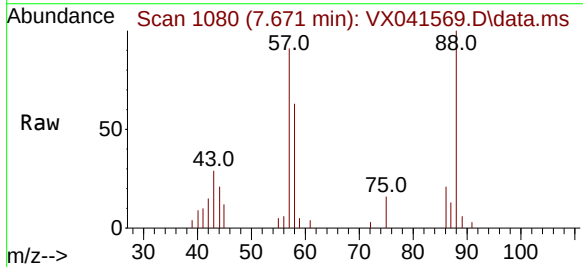
Tgt Ion: 88 Resp: 5202

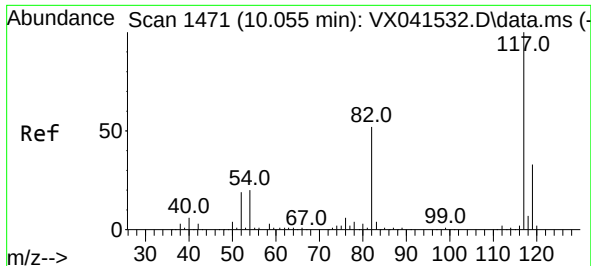
Ion Ratio Lower Upper

88 100

43 8.9 24.9 37.3#

58 65.6 47.0 70.4

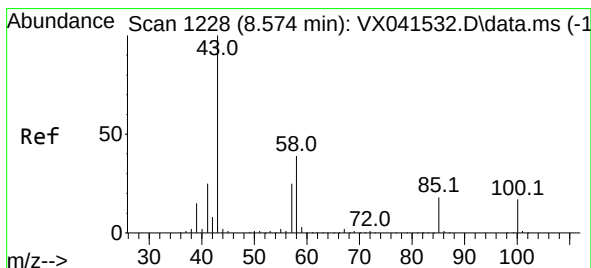
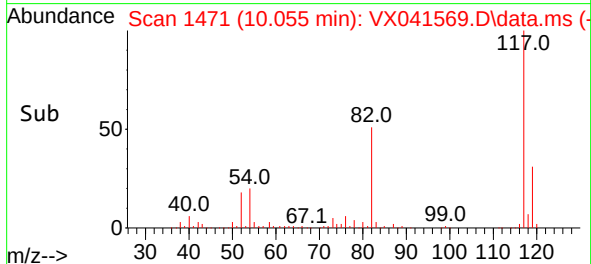
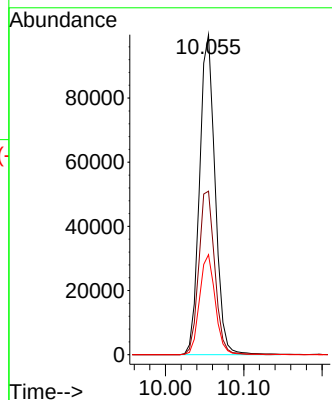
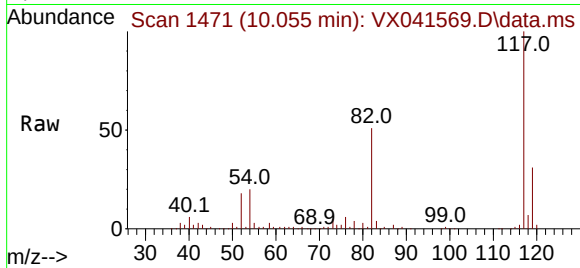




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

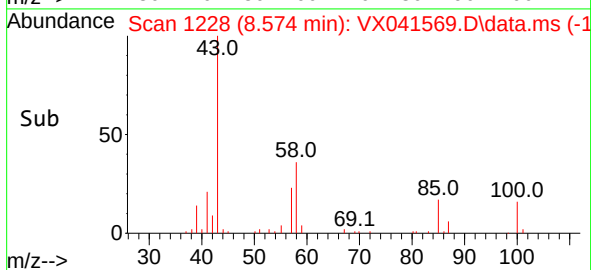
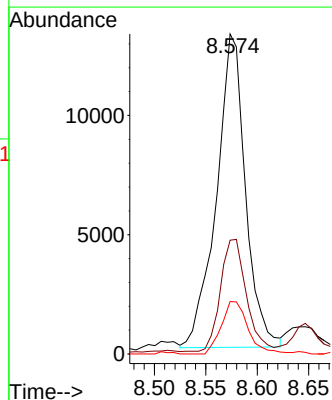
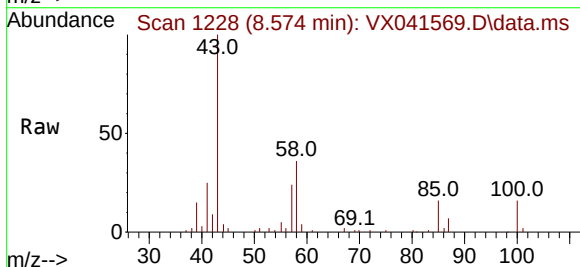
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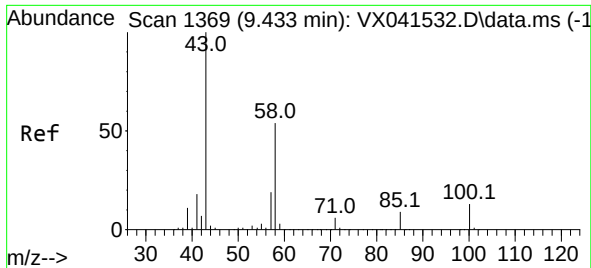
Tgt Ion:117 Resp: 137837
Ion Ratio Lower Upper
117 100
82 52.5 41.7 62.5
119 31.5 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 10.255 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Tgt Ion: 43 Resp: 25828
Ion Ratio Lower Upper
43 100
58 32.7 30.2 45.4
85 15.4 14.6 21.8

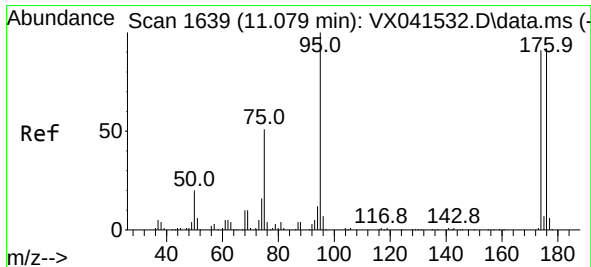
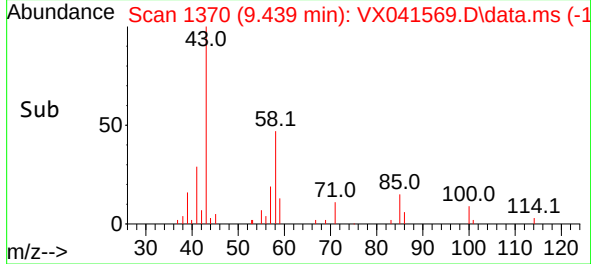
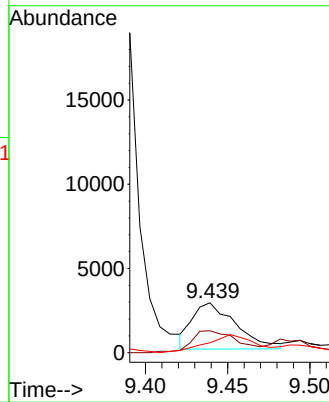
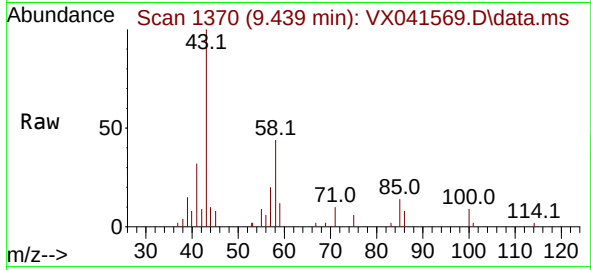




#59
2-Hexanone
Concen: 2.535 ug/l
RT: 9.439 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

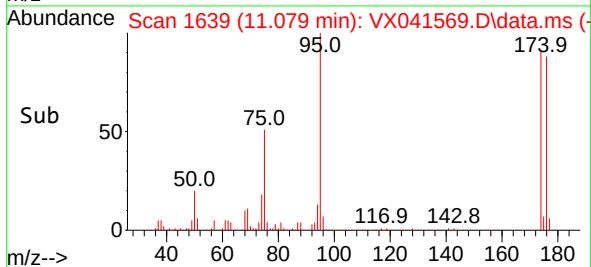
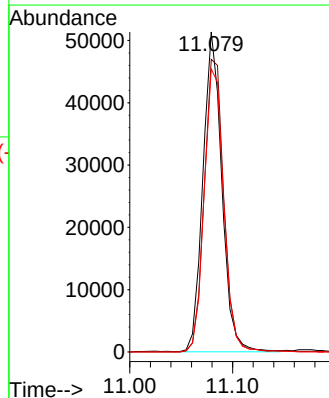
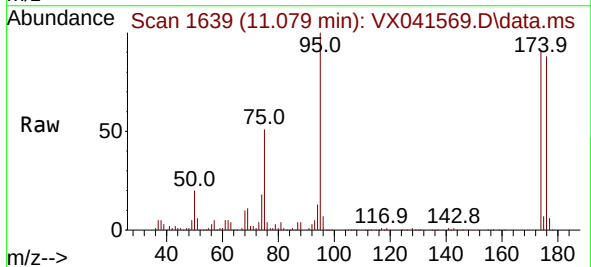
Instrument :
MSVOA_X
ClientSampleId :
240515064-02-VOA

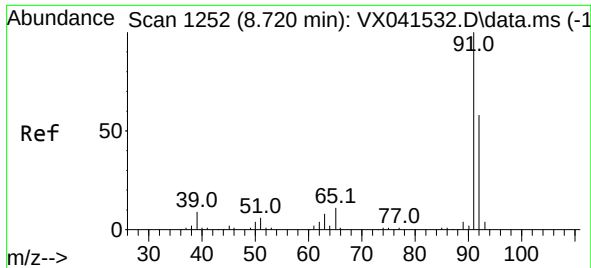
Tgt Ion: 43 Resp: 5087
Ion Ratio Lower Upper
43 100
58 46.0 42.3 63.5
57 41.9 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 30.594 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Tgt Ion: 95 Resp: 65831
Ion Ratio Lower Upper
95 100
174 94.9 76.6 115.0
176 91.5 75.4 113.0





#62

Toluene

Concen: 7.578 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

Instrument :

MSVOA_X

ClientSampleId :

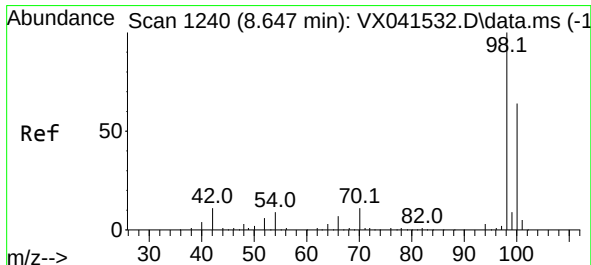
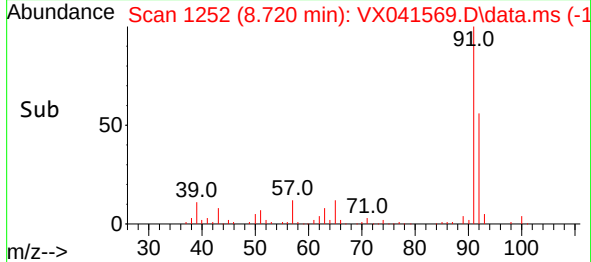
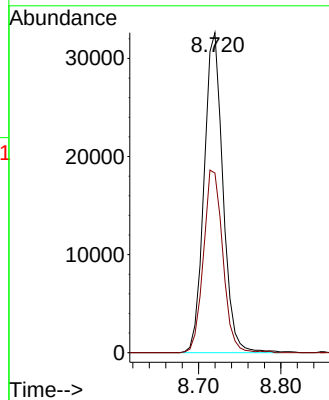
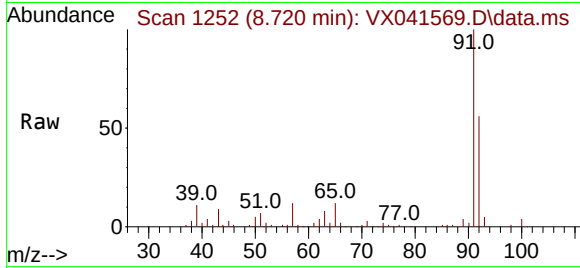
240515064-02-VOA

Tgt Ion: 91 Resp: 51974

Ion Ratio Lower Upper

91 100

92 58.5 47.0 70.6



#63

Toluene-d8

Concen: 29.709 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX041569.D

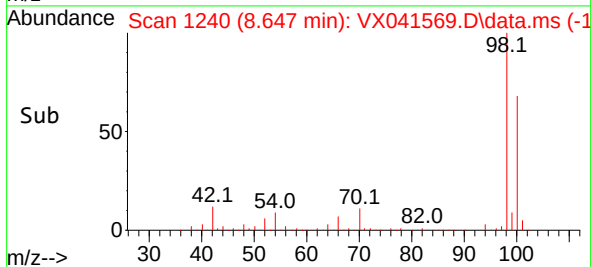
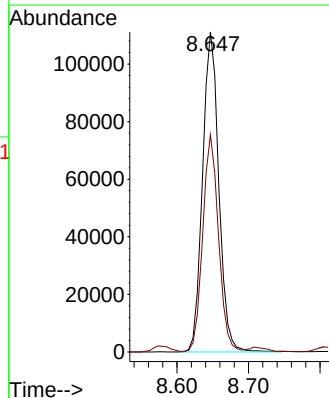
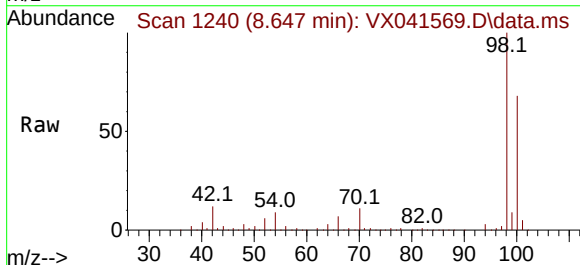
Acq: 16 May 2024 17:24

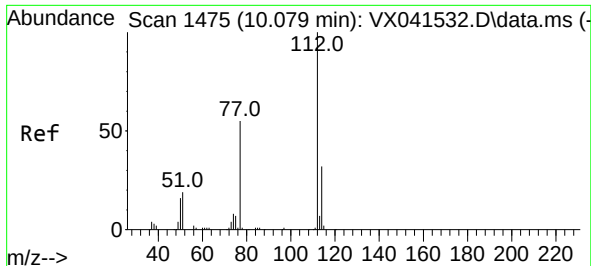
Tgt Ion: 98 Resp: 175535

Ion Ratio Lower Upper

98 100

100 65.6 53.1 79.7

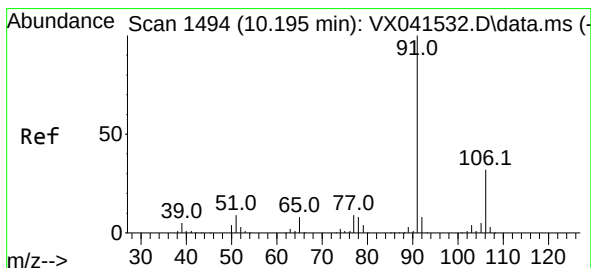
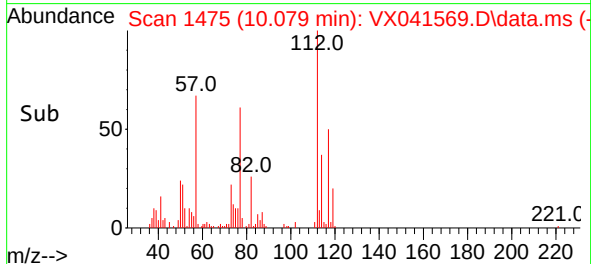
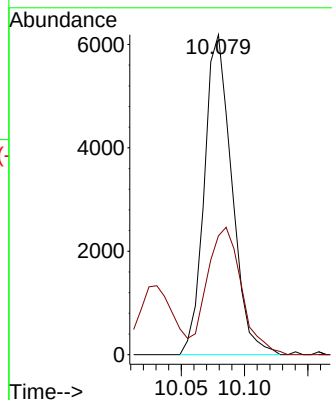
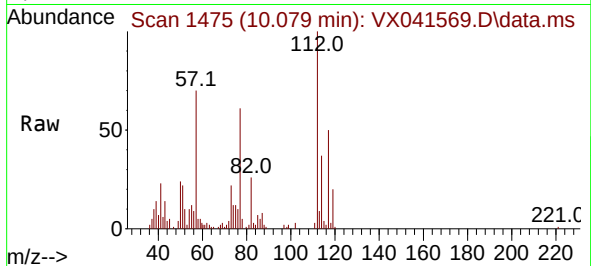




#64
Chlorobenzene
Concen: 2.012 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

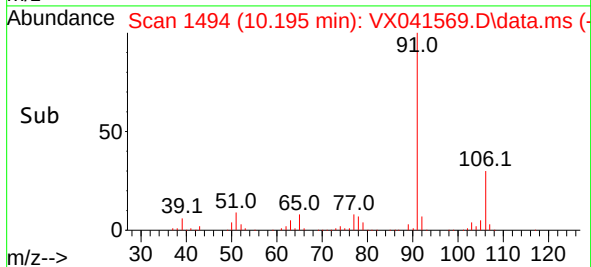
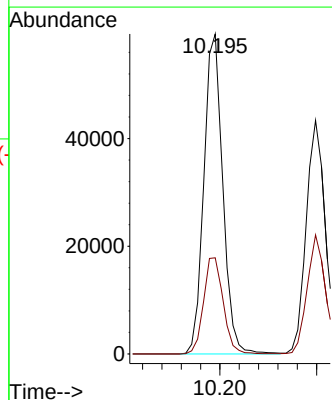
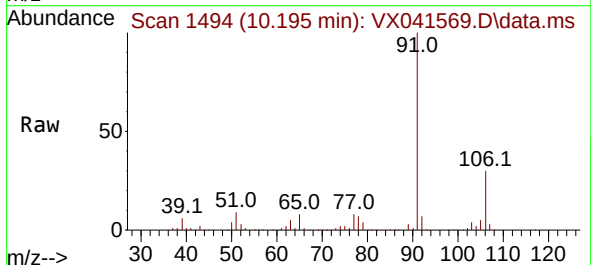
Instrument :
MSVOA_X
ClientSampleId :
240515064-02-VOA

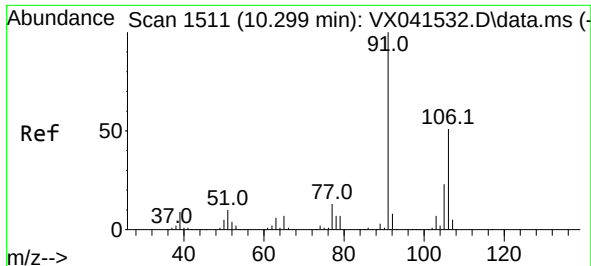
Tgt Ion:112 Resp: 9375
Ion Ratio Lower Upper
112 100
114 36.1 26.0 39.0



#66
Ethyl Benzene
Concen: 10.625 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Tgt Ion: 91 Resp: 80923
Ion Ratio Lower Upper
91 100
106 30.1 25.9 38.9

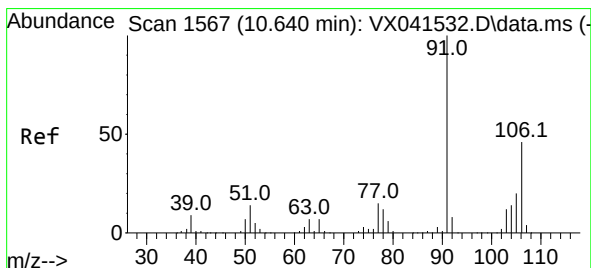
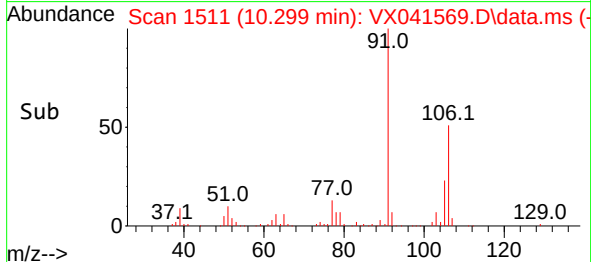
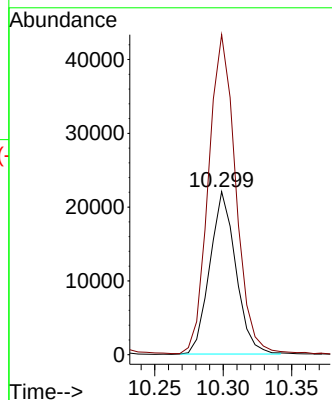
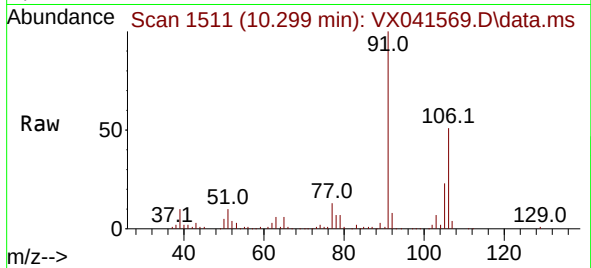




#67
m/p-Xylenes
Concen: 9.747 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

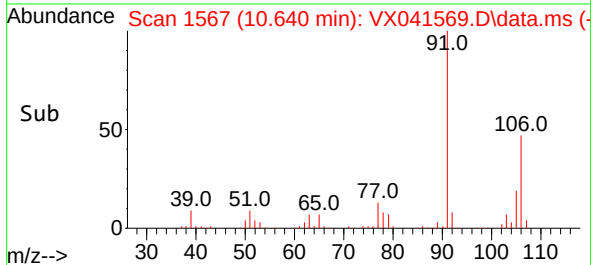
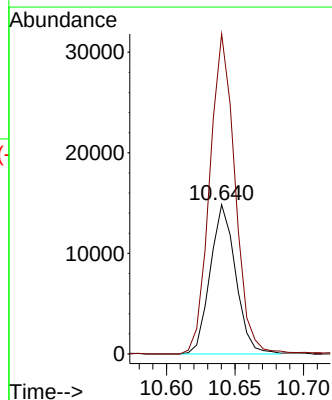
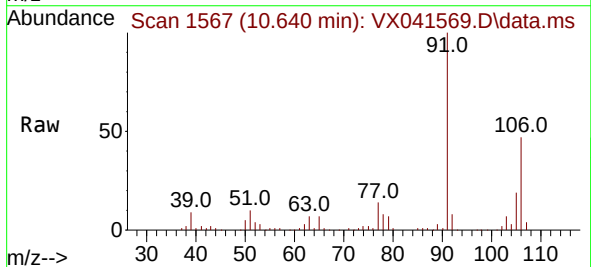
Instrument :
MSVOA_X
ClientSampleId :
240515064-02-VOA

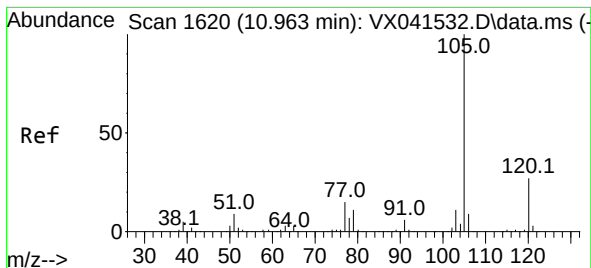
Tgt Ion:106 Resp: 29027
Ion Ratio Lower Upper
106 100
91 207.5 156.5 234.7



#68
o-Xylene
Concen: 6.393 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Tgt Ion:106 Resp: 19166
Ion Ratio Lower Upper
106 100
91 213.4 105.2 315.6





#70

Isopropylbenzene

Concen: 1.694 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

Instrument :

MSVOA_X

ClientSampleId :

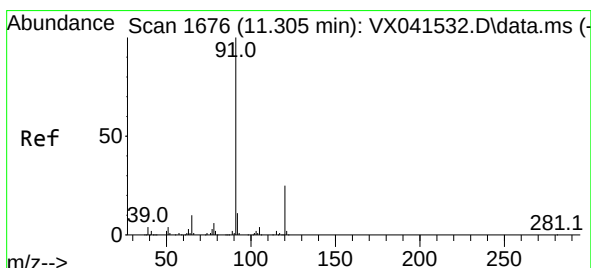
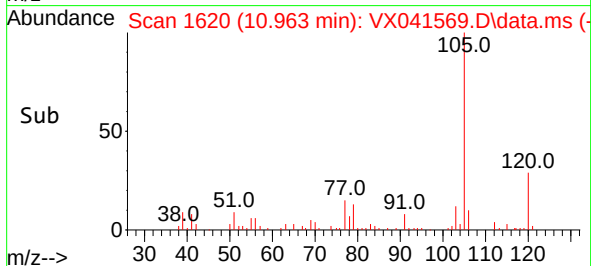
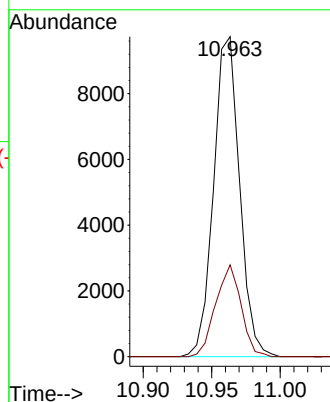
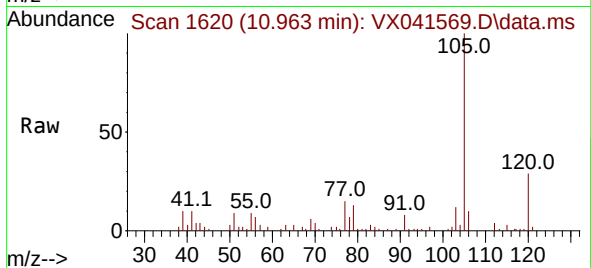
240515064-02-VOA

Tgt Ion:105 Resp: 12830

Ion Ratio Lower Upper

105 100

120 28.1 18.8 34.8



#74

n-propylbenzene

Concen: 0.652 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX041569.D

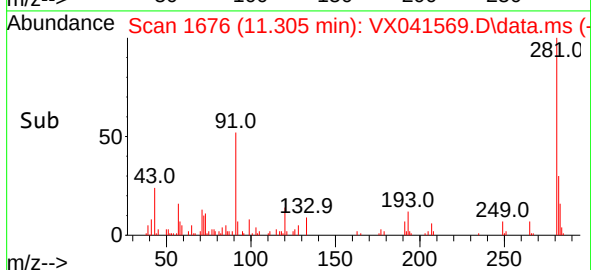
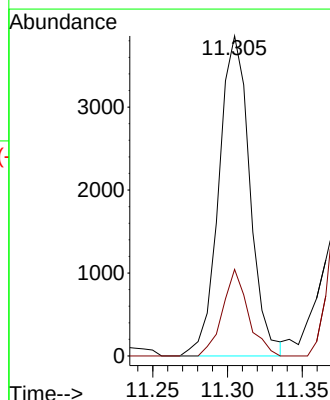
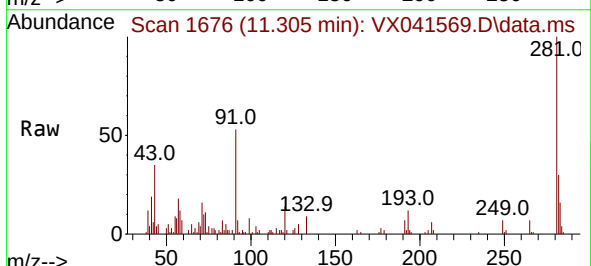
Acq: 16 May 2024 17:24

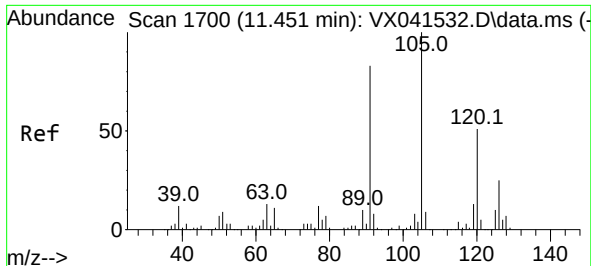
Tgt Ion: 91 Resp: 5568

Ion Ratio Lower Upper

91 100

120 22.3 0.0 48.4

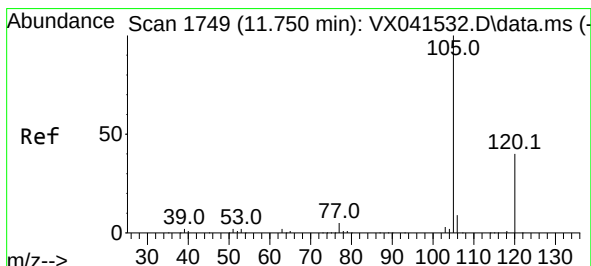
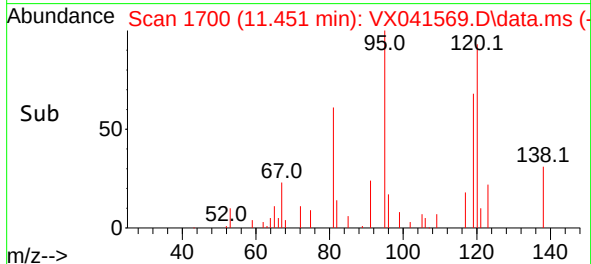
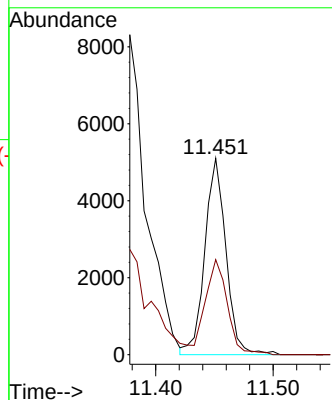
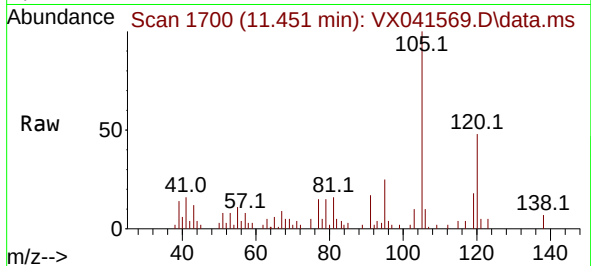




#76
1,3,5-Trimethylbenzene
Concen: 0.986 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

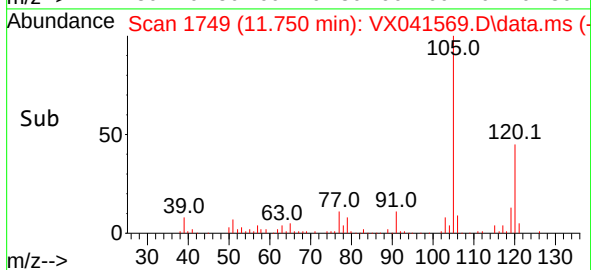
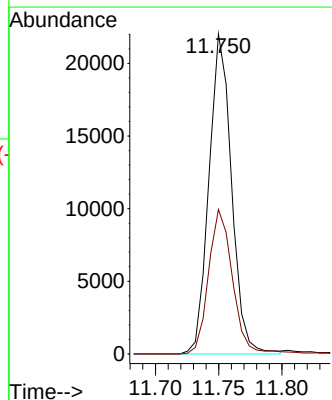
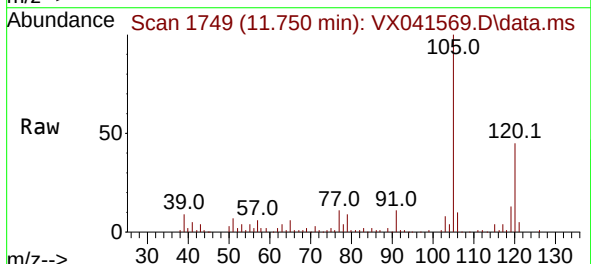
Instrument :
MSVOA_X
ClientSampleId :
240515064-02-VOA

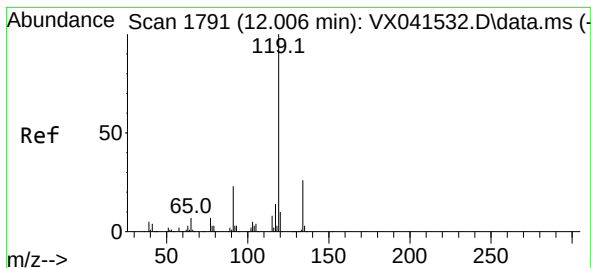
Tgt Ion:105 Resp: 6372
Ion Ratio Lower Upper
105 100
120 49.7 0.0 102.6



#80
1,2,4-Trimethylbenzene
Concen: 4.224 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Tgt Ion:105 Resp: 27375
Ion Ratio Lower Upper
105 100
120 48.1 0.0 92.2





#82

p-Isopropyltoluene

Concen: 3.868 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

Instrument :

MSVOA_X

ClientSampleId :

240515064-02-VOA

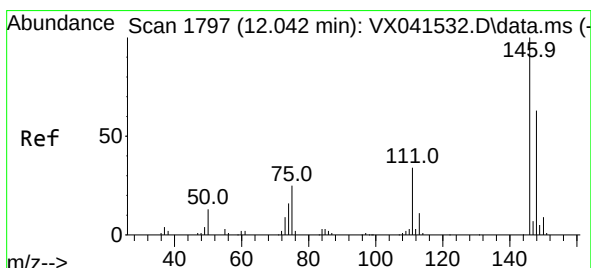
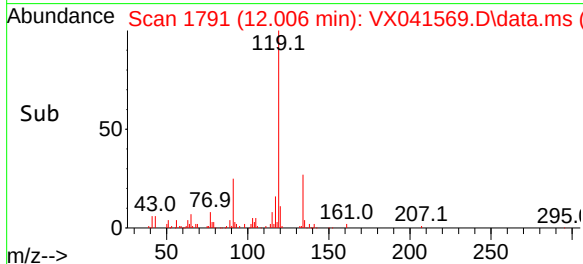
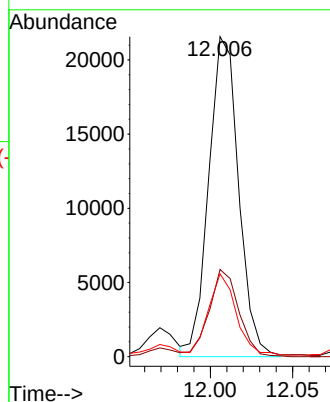
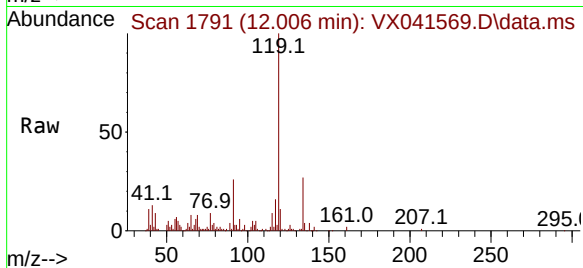
Tgt Ion:119 Resp: 27228

Ion Ratio Lower Upper

119 100

134 27.1 0.0 53.4

91 23.3 0.0 44.8



#84

1,4-Dichlorobenzene

Concen: 3.601 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX041569.D

Acq: 16 May 2024 17:24

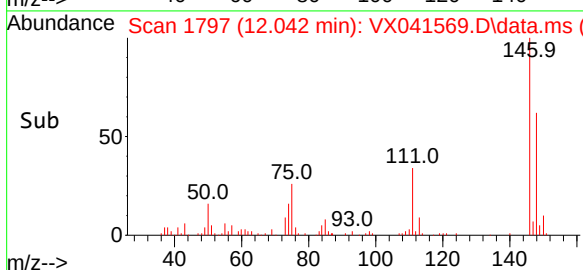
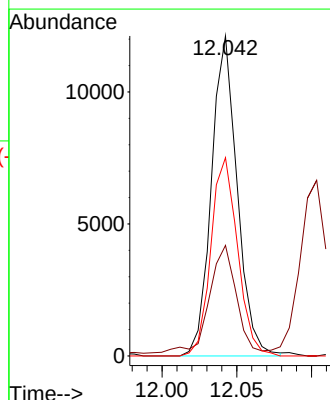
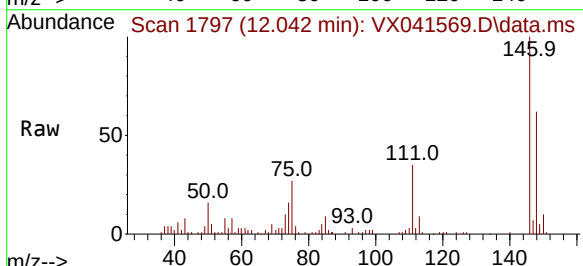
Tgt Ion:146 Resp: 14526

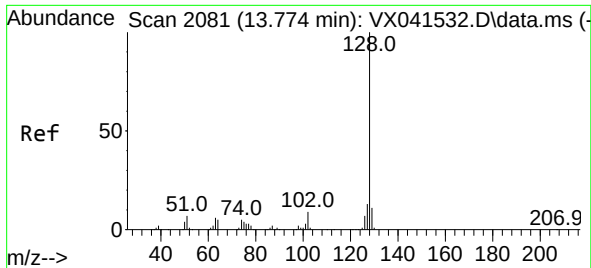
Ion Ratio Lower Upper

146 100

111 34.3 17.8 53.5

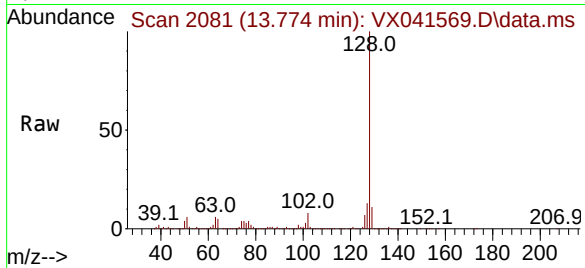
148 64.2 31.9 95.5





#91
Naphthalene
Concen: 44.205 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX041569.D
Acq: 16 May 2024 17:24

Instrument :
MSVOA_X
ClientSampleId :
240515064-02-VOA



Tgt Ion:128 Resp: 361700
Ion Ratio Lower Upper
128 100
127 13.0 10.6 16.0
129 11.2 8.8 13.2

