

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052324\
 Data File : VX041632.D
 Acq On : 23 May 2024 16:32
 Operator : JC/MD
 Sample : P2584-02 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 24 06:45:11 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)

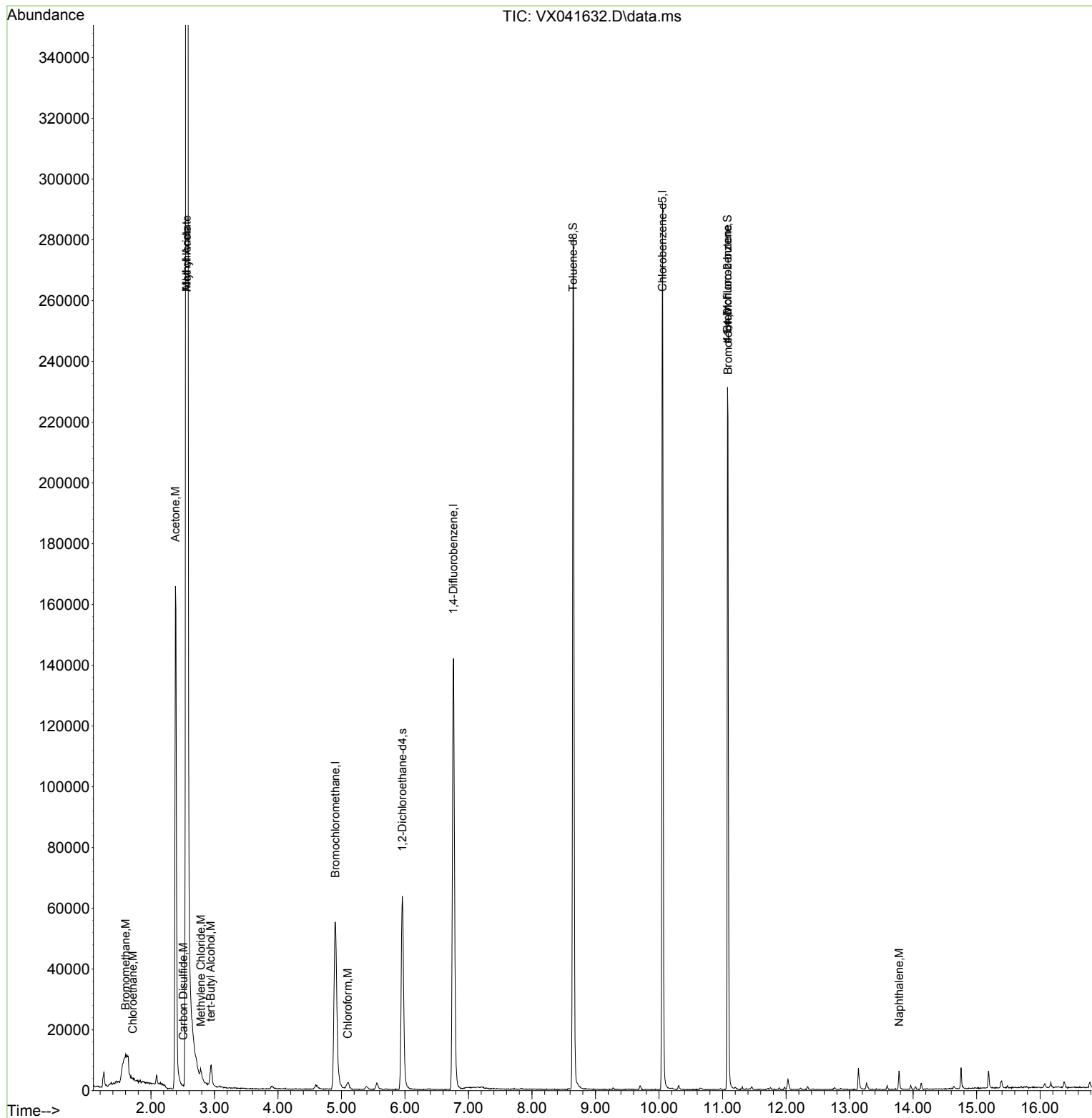
Internal Standards						
1) Bromochloromethane	4.903	128	27632	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	150023	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	133359	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	64063	29.441	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.133%
60) 4-Bromofluorobenzene	11.079	95	59021	28.351	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.500%
63) Toluene-d8	8.647	98	170437	29.815	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.367%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	491	0.463	ug/l	96
6) Chloroethane	1.715	64	266	0.316	ug/l	100
12) Methyl Acetate	2.562	43	380223	178.578	ug/l #	50
15) Acetone	2.386	58	52632	209.844	ug/l	99
16) Carbon Disulfide	2.508	76	673	0.211	ug/l #	88
17) Allyl chloride	2.562	41	145363	57.940	ug/l #	71
18) Methylene Chloride	2.788	84	1280	0.761	ug/l	93
23) tert-Butyl Alcohol	2.940	59	4171	10.500	ug/l #	100
25) Chloroform	5.099	83	2744	0.871	ug/l	87
56) Bromoform	11.085	173	564	0.381	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.079	75	30122	42.208	ug/l #	1
91) Naphthalene	13.780	128	4459	0.563	ug/l	95

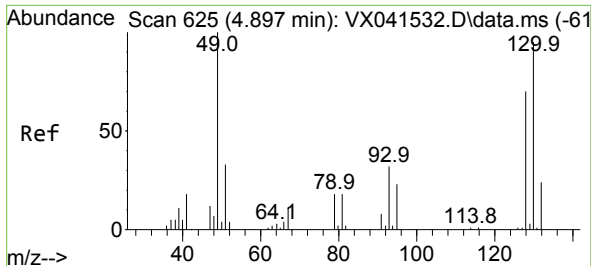
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052324\
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Instrument :
MSVOA_X
ClientSampleId :

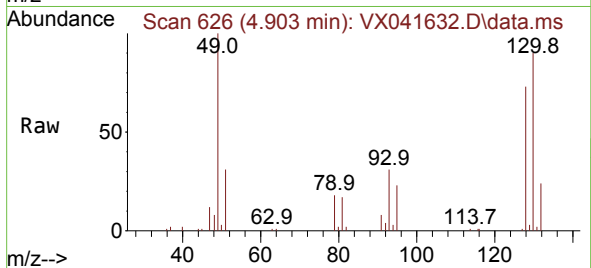
Quant Time: May 24 06:45:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 16 05:13:13 2024
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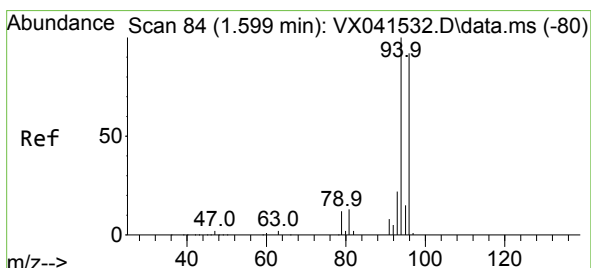
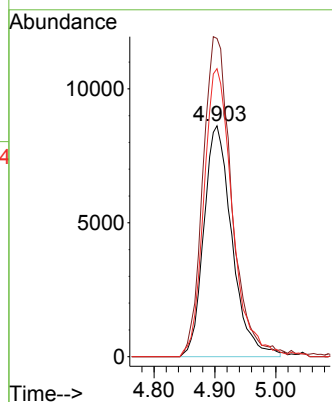
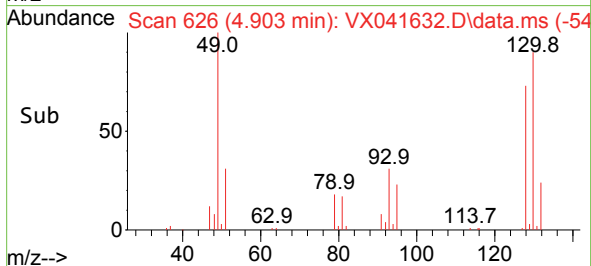


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.903 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX041632.D
Acq: 23 May 2024 16:32

Instrument :
MSVOA_X
ClientSampleId :

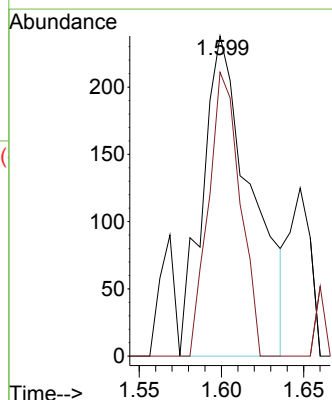
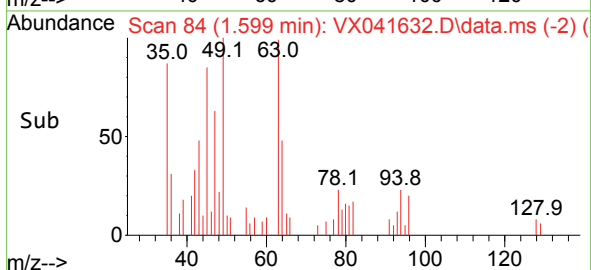
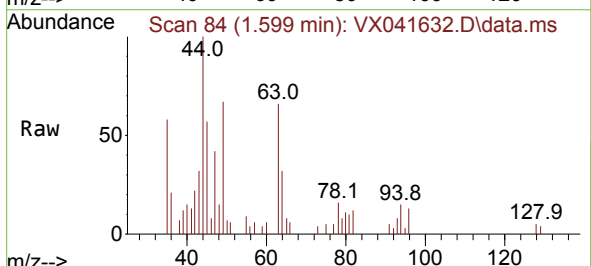


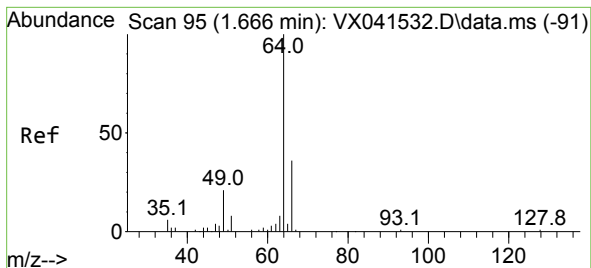
Tgt Ion:128 Resp: 27632
Ion Ratio Lower Upper
128 100
49 140.7 0.0 361.5
130 124.4 0.0 324.3



#5
Bromomethane
Concen: 0.463 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX041632.D
Acq: 23 May 2024 16:32

Tgt Ion: 94 Resp: 491
Ion Ratio Lower Upper
94 100
96 88.7 73.9 110.9





#6

Chloroethane

Concen: 0.316 ug/l

RT: 1.715 min Scan# 103

Delta R.T. 0.049 min

Lab File: VX041632.D

Acq: 23 May 2024 16:32

Instrument :

MSVOA_X

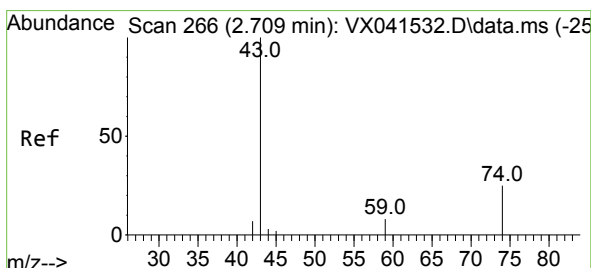
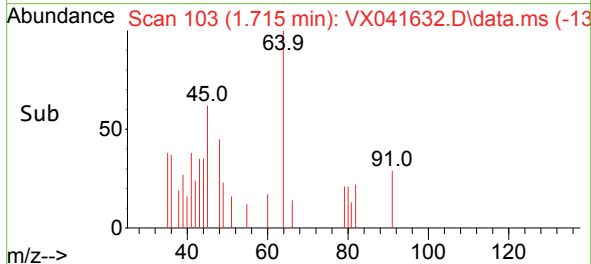
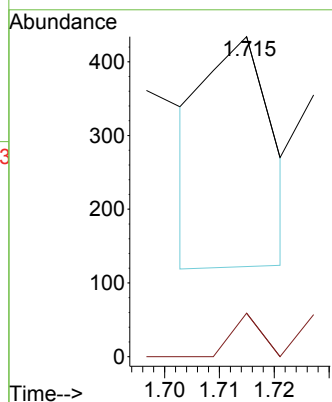
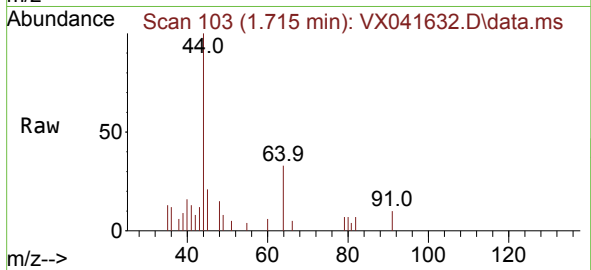
ClientSampleId :

Tgt Ion: 64 Resp: 266

Ion Ratio Lower Upper

64 100

66 36.0 28.6 42.8



#12

Methyl Acetate

Concen: 178.578 ug/l

RT: 2.562 min Scan# 242

Delta R.T. -0.146 min

Lab File: VX041632.D

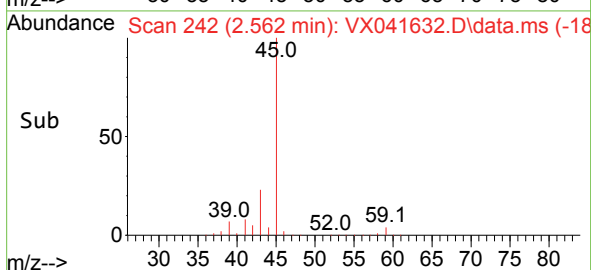
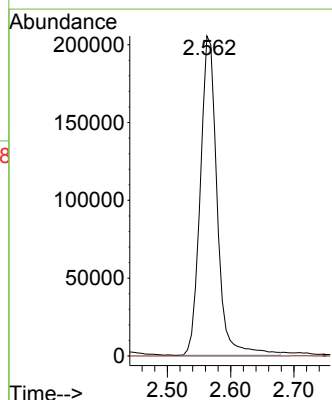
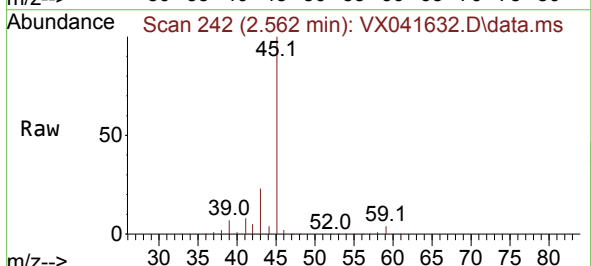
Acq: 23 May 2024 16:32

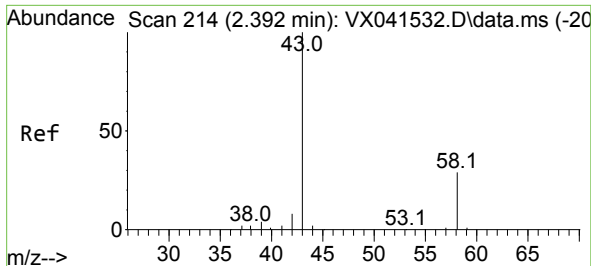
Tgt Ion: 43 Resp: 380223

Ion Ratio Lower Upper

43 100

74 0.0 19.9 29.9#





#15

Acetone

Concen: 209.844 ug/l

RT: 2.386 min Scan# 214

Delta R.T. -0.006 min

Lab File: VX041632.D

Acq: 23 May 2024 16:32

Instrument :

MSVOA_X

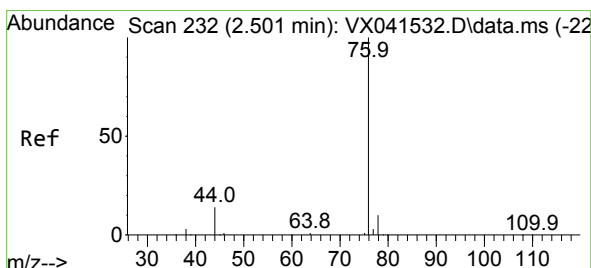
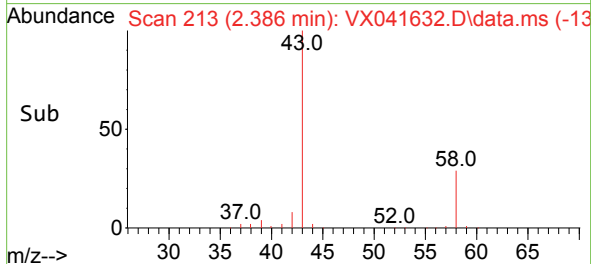
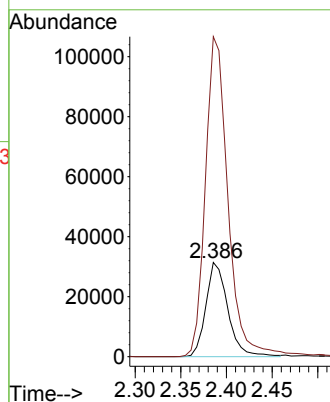
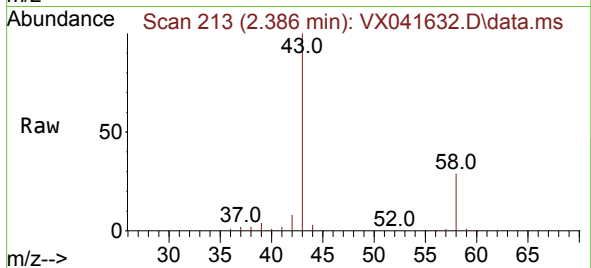
ClientSampleId :

Tgt Ion: 58 Resp: 52632

Ion Ratio Lower Upper

58 100

43 339.6 274.0 411.0



#16

Carbon Disulfide

Concen: 0.211 ug/l

RT: 2.508 min Scan# 233

Delta R.T. 0.006 min

Lab File: VX041632.D

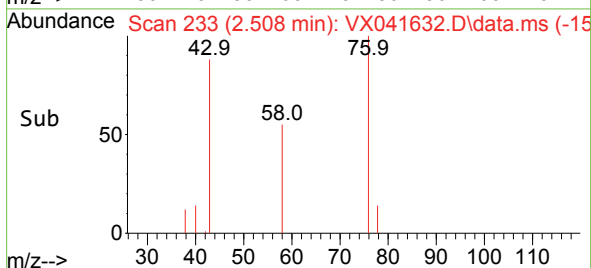
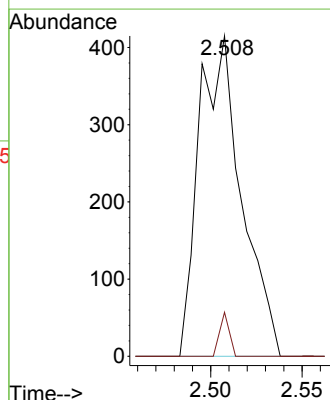
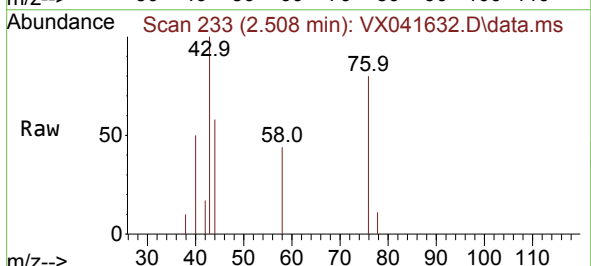
Acq: 23 May 2024 16:32

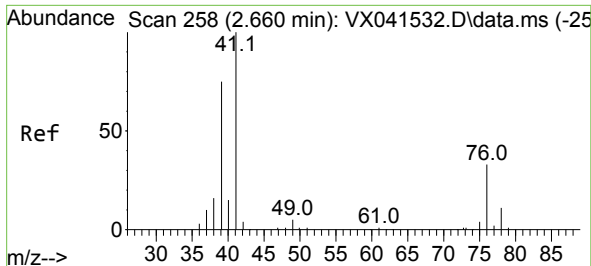
Tgt Ion: 76 Resp: 673

Ion Ratio Lower Upper

76 100

78 13.7 7.6 11.4#





#17

Allyl chloride

Concen: 57.940 ug/l

RT: 2.562 min Scan# 242

Delta R.T. -0.098 min

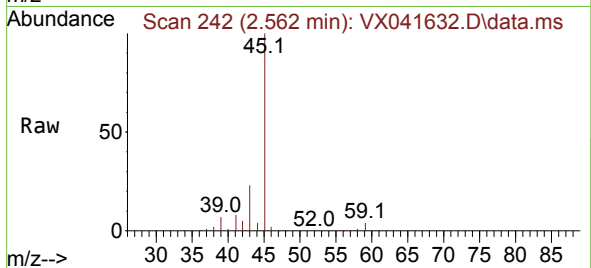
Lab File: VX041632.D

Acq: 23 May 2024 16:32

Instrument :

MSVOA_X

ClientSampleId :



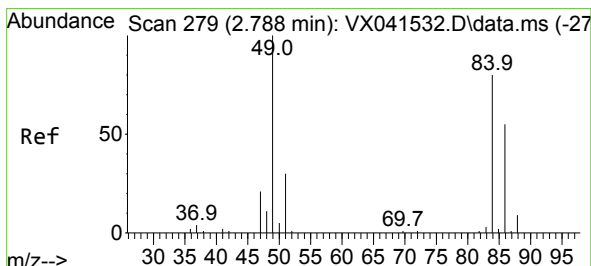
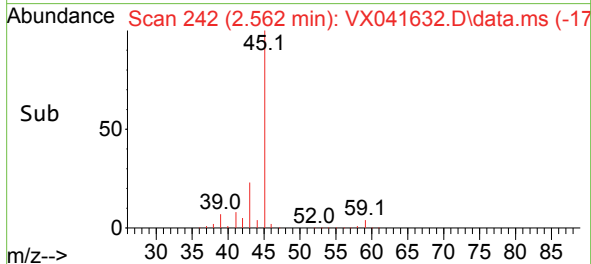
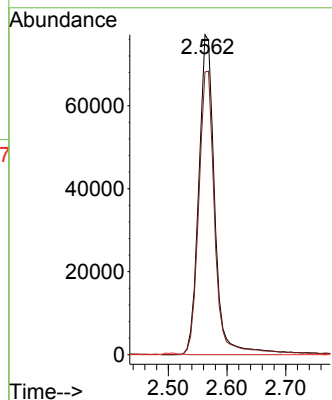
Tgt Ion: 41 Resp: 145363

Ion Ratio Lower Upper

41 100

39 88.3 37.5 112.7

76 0.0 16.6 49.8#



#18

Methylene Chloride

Concen: 0.761 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX041632.D

Acq: 23 May 2024 16:32

Tgt Ion: 84 Resp: 1280

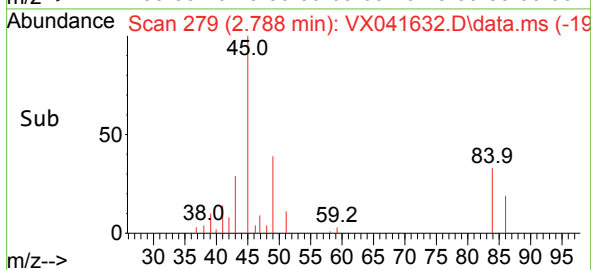
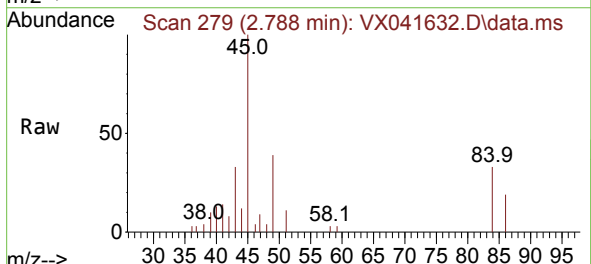
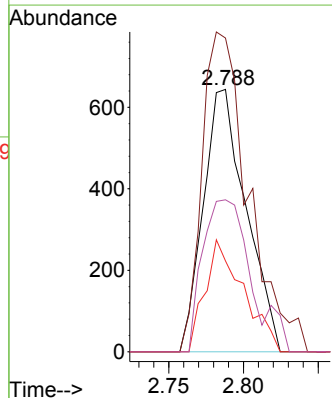
Ion Ratio Lower Upper

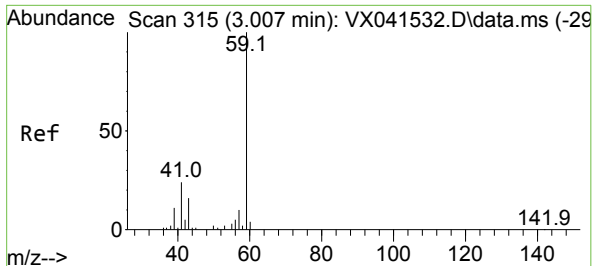
84 100

49 119.6 99.8 149.8

51 34.6 30.2 45.4

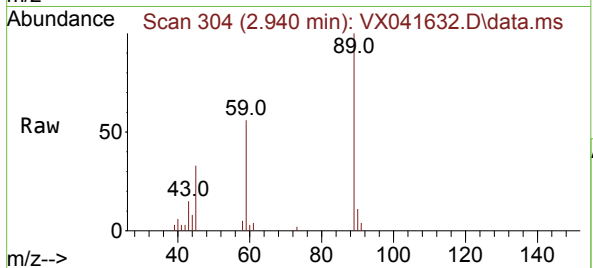
86 57.9 54.6 81.8



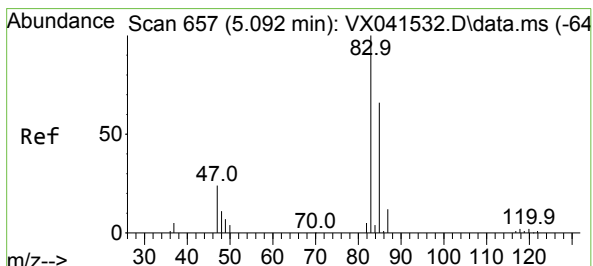
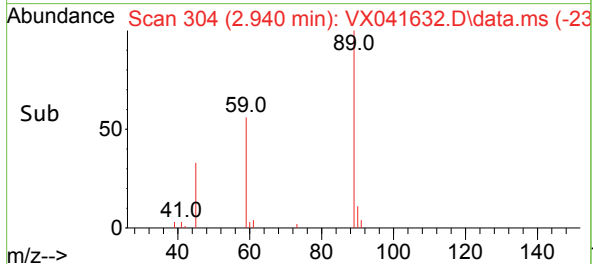
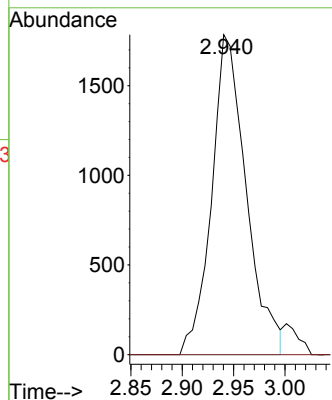


#23
tert-Butyl Alcohol
Concen: 10.500 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.067 min
Lab File: VX041632.D
Acq: 23 May 2024 16:32

Instrument :
MSVOA_X
ClientSampleId :

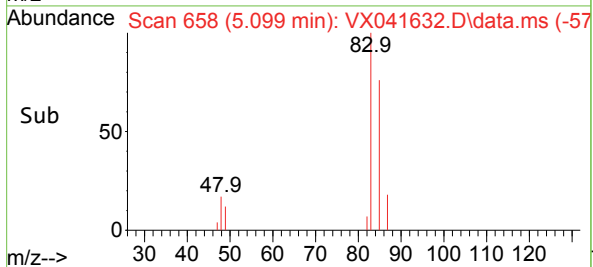
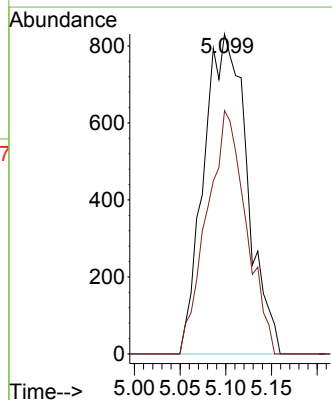
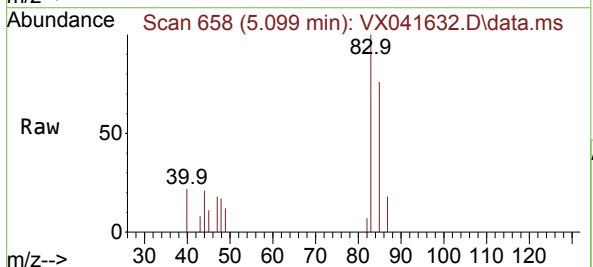


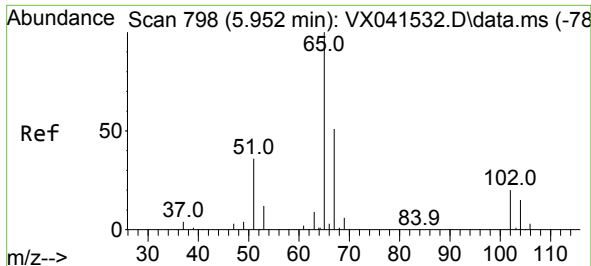
Tgt Ion: 59 Resp: 4171
Ion Ratio Lower Upper
59 100
52 2.3 0.0 0.0#



#25
Chloroform
Concen: 0.871 ug/l
RT: 5.099 min Scan# 658
Delta R.T. 0.006 min
Lab File: VX041632.D
Acq: 23 May 2024 16:32

Tgt Ion: 83 Resp: 2744
Ion Ratio Lower Upper
83 100
85 76.1 52.9 79.3





#27

1,2-Dichloroethane-d4

Concen: 29.441 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX041632.D

Acq: 23 May 2024 16:32

Instrument :

MSVOA_X

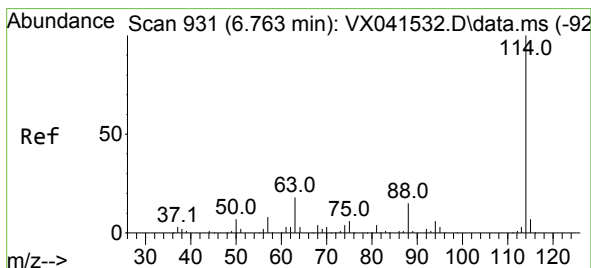
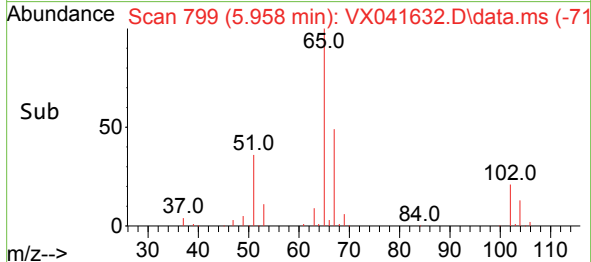
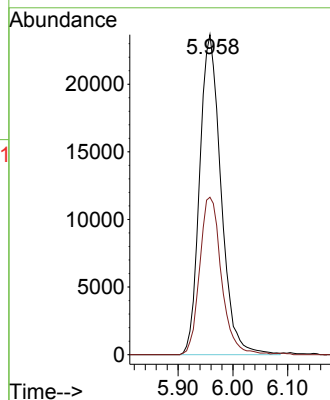
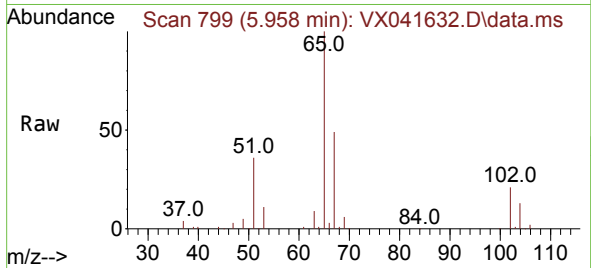
ClientSampleId :

Tgt Ion: 65 Resp: 64063

Ion Ratio Lower Upper

65 100

67 50.0 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX041632.D

Acq: 23 May 2024 16:32

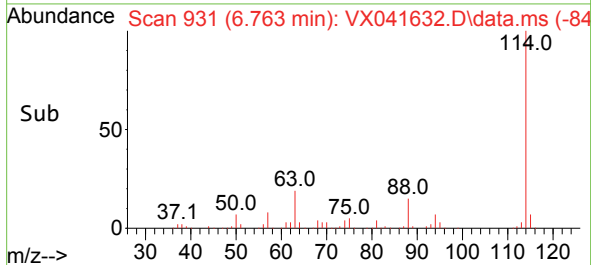
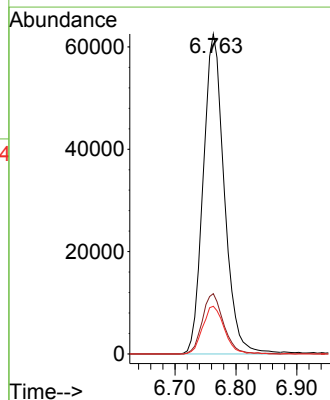
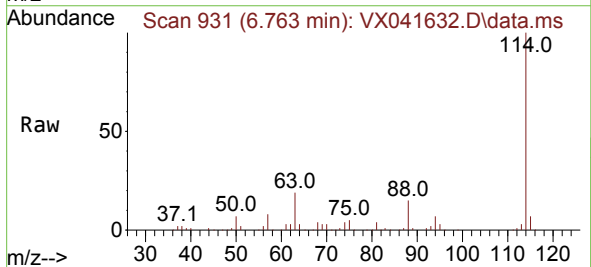
Tgt Ion: 114 Resp: 150023

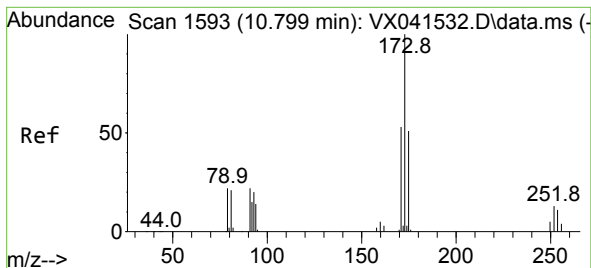
Ion Ratio Lower Upper

114 100

63 19.1 15.4 23.0

88 15.1 12.2 18.2





#56

Bromoform

Concen: 0.381 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.287 min

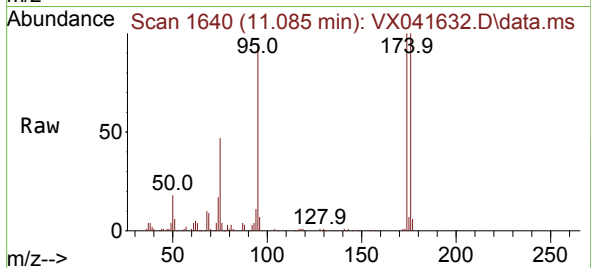
Lab File: VX041632.D

Acq: 23 May 2024 16:32

Instrument :

MSVOA_X

ClientSampleId :



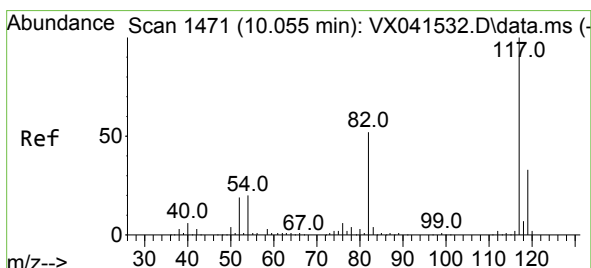
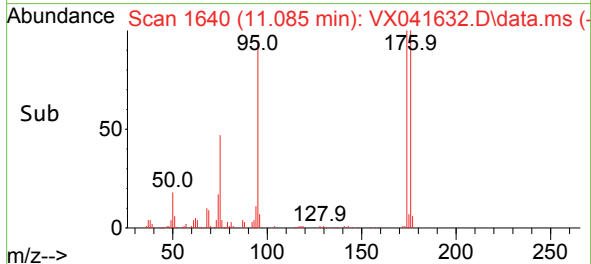
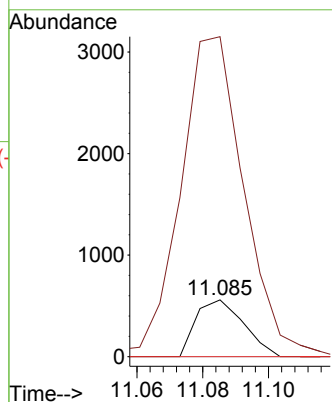
Tgt Ion:173 Resp: 564

Ion Ratio Lower Upper

173 100

175 750.4 39.0 58.6#

254 0.0 10.3 15.5#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX041632.D

Acq: 23 May 2024 16:32

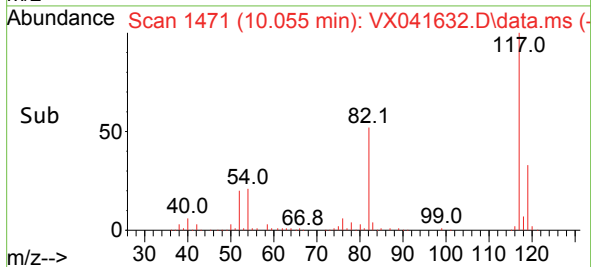
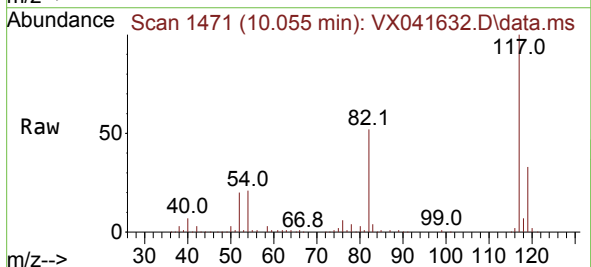
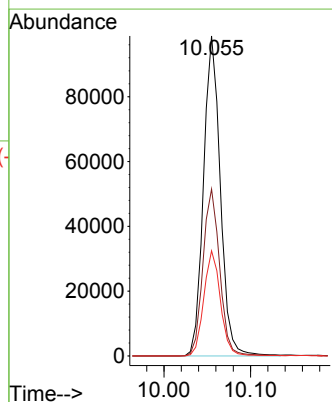
Tgt Ion:117 Resp: 133359

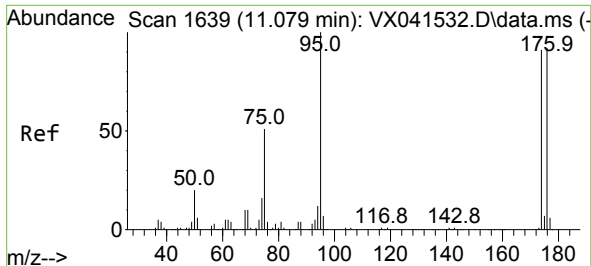
Ion Ratio Lower Upper

117 100

82 52.0 41.7 62.5

119 32.5 25.7 38.5

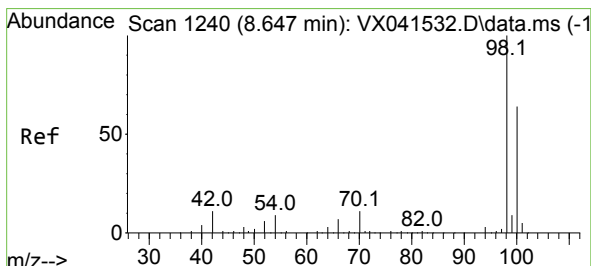
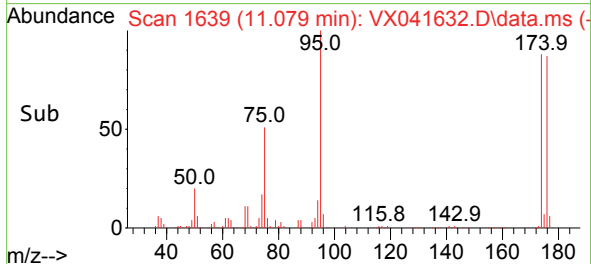
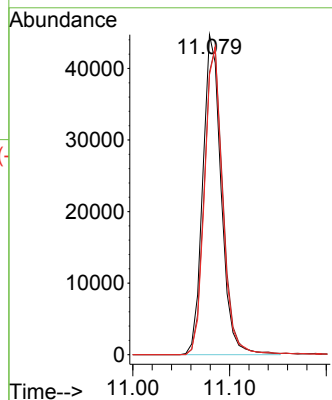
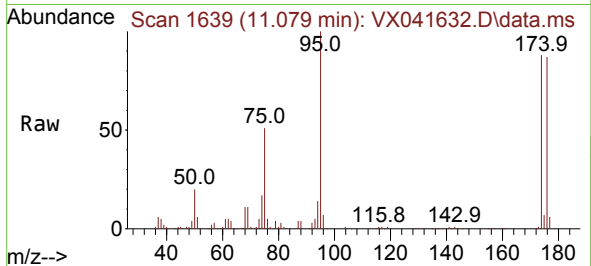




#60
4-Bromofluorobenzene
Concen: 28.351 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX041632.D
Acq: 23 May 2024 16:32

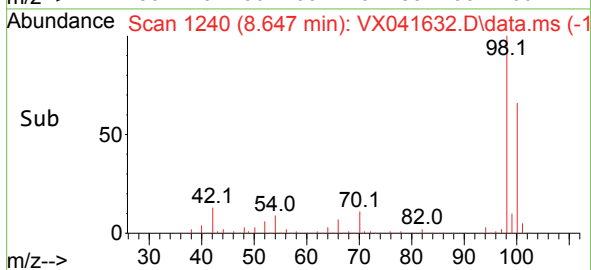
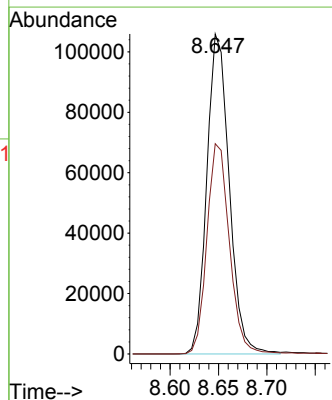
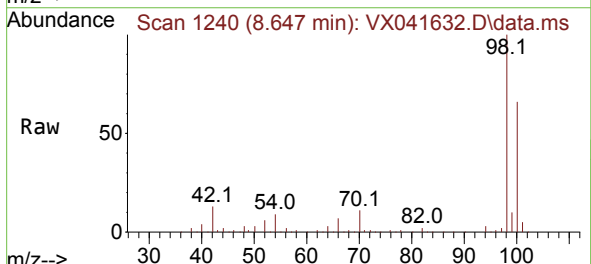
Instrument :
MSVOA_X
ClientSampleId :

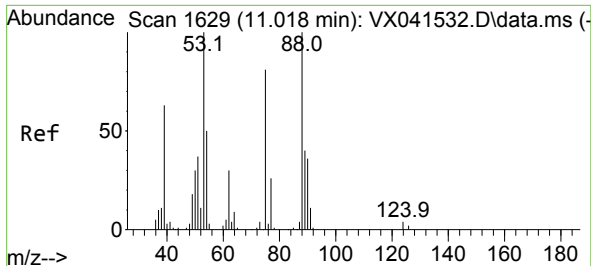
Tgt Ion: 95 Resp: 59021
Ion Ratio Lower Upper
95 100
174 96.8 76.6 115.0
176 94.3 75.4 113.0



#63
Toluene-d8
Concen: 29.815 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX041632.D
Acq: 23 May 2024 16:32

Tgt Ion: 98 Resp: 170437
Ion Ratio Lower Upper
98 100
100 65.8 53.1 79.7





#77

t-1,4-Dichloro-2-butene

Concen: 42.208 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

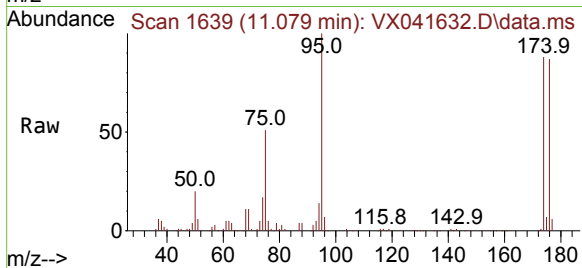
Lab File: VX041632.D

Acq: 23 May 2024 16:32

Instrument :

MSVOA_X

ClientSampleId :



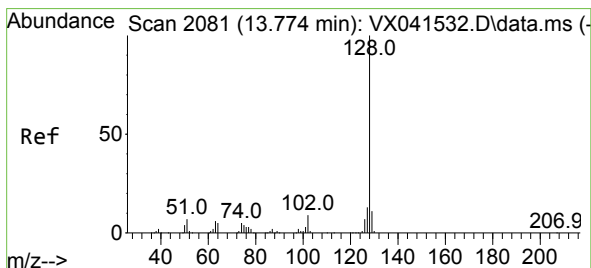
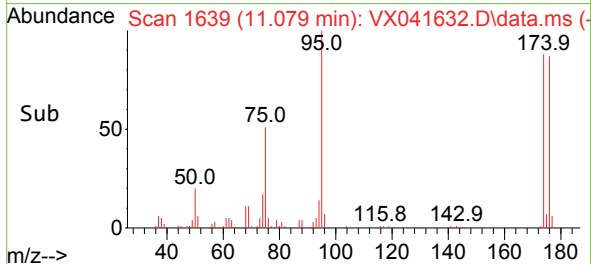
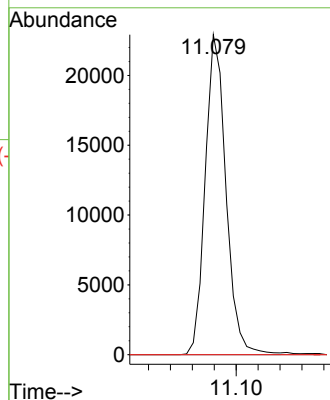
Tgt Ion: 75 Resp: 30122

Ion Ratio Lower Upper

75 100

53 0.0 61.8 185.3#

89 0.0 24.9 74.7#



#91

Naphthalene

Concen: 0.563 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX041632.D

Acq: 23 May 2024 16:32

Tgt Ion:128 Resp: 4459

Ion Ratio Lower Upper

128 100

127 11.3 10.6 16.0

129 9.1 8.8 13.2

