

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072122\
 Data File : VX030151.D
 Acq On : 20 Jul 2022 23:04
 Operator : JC/MD
 Sample : N3781-02 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ORA-0019

Quant Time: Jul 21 03:34:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X071222W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 13 09:05:23 2022
 Response via : Initial Calibration

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

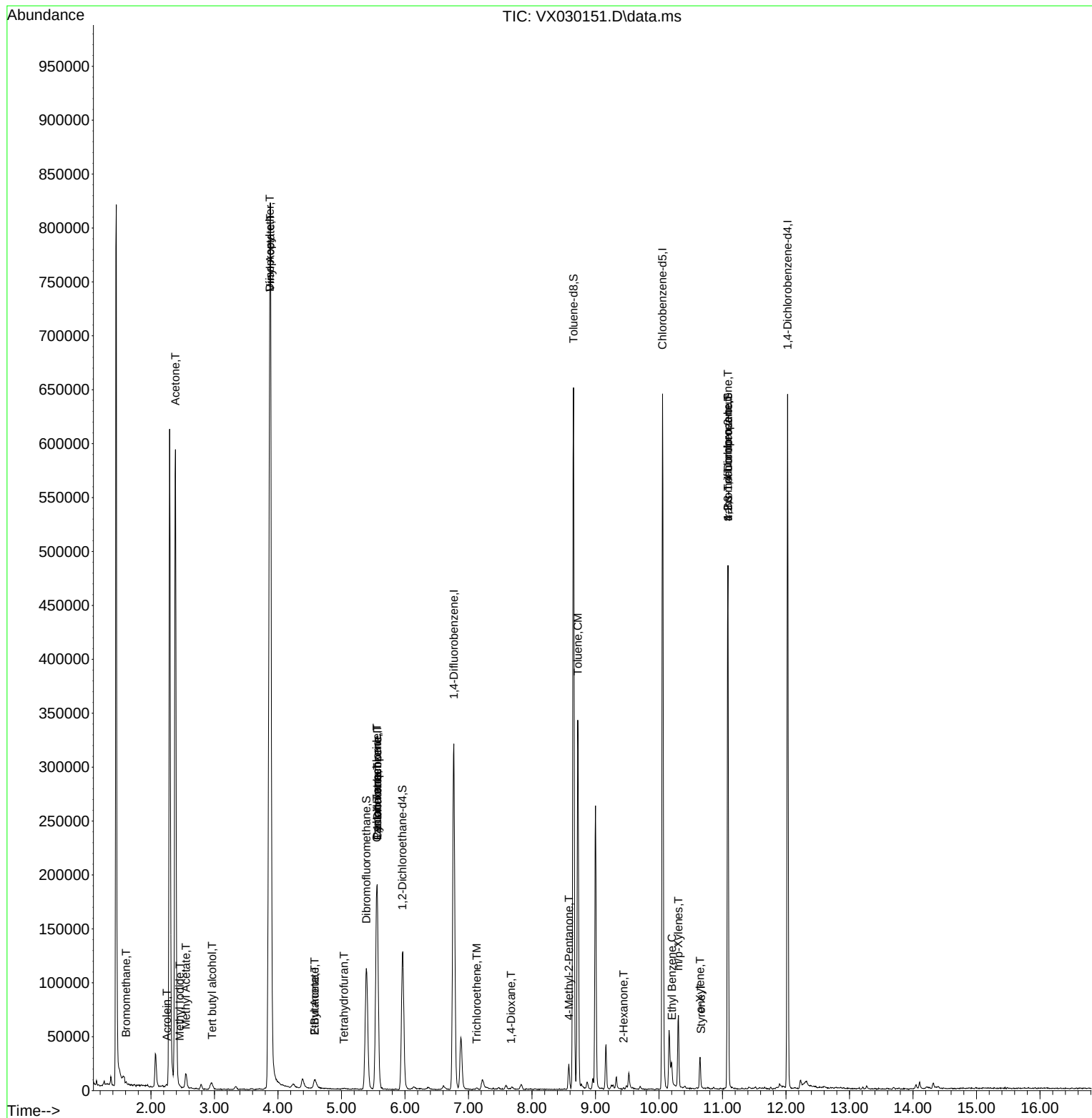
Internal Standards						
1) Pentafluorobenzene	5.562	168	181672	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	328638	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	289867	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	126220	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	117481	53.128	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.260%			
35) Dibromofluoromethane	5.391	113	101354	48.276	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.560%			
50) Toluene-d8	8.653	98	387454	49.070	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.140%			
62) 4-Bromofluorobenzene	11.086	95	130583	47.656	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.320%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	44	Below Cal	#	42
5) Bromomethane	1.605	94	318	0.356	ug/l	95
10) Methyl Iodide	2.453	142	425	2.630	ug/l #	89
11) Tert butyl alcohol	2.965	59	5181	9.078	ug/l #	74
13) Acrolein	2.252	56	2120	18.651	ug/l #	79
16) Acetone	2.386	43	615468	590.679	ug/l	96
17) Carbon Disulfide	2.508	76	704	Below Cal	#	74
18) Methyl Acetate	2.550	43	4759	1.501	ug/l #	51
20) Methylene Chloride	2.794	84	1828	Below Cal	#	88
22) Diisopropyl ether	3.873	45	57905	9.146	ug/l #	1
23) Vinyl Acetate	3.879	43	138952	25.924	ug/l #	72
25) 2-Butanone	4.574	43	10607	5.976	ug/l #	89
29) Tetrahydrofuran	5.038	42	346	0.287	ug/l #	50
31) Cyclohexane	5.562	56	4265	1.330	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	14926	5.504	ug/l #	47
37) Ethyl Acetate	4.574	43	10591	3.039	ug/l #	69
38) Carbon Tetrachloride	5.556	117	18488	7.311	ug/l #	19
44) Trichloroethene	7.129	130	550	0.221	ug/l	78
49) 1,4-Dioxane	7.671	88	23	0.366	ug/l #	1
51) 4-Methyl-2-Pentanone	8.580	43	13607	3.924	ug/l	97
52) Toluene	8.720	92	127299	23.487	ug/l	99
59) 2-Hexanone	9.439	43	865	0.325	ug/l	83
67) Ethyl Benzene	10.202	91	9336	0.954	ug/l	92
68) m/p-Xylenes	10.305	106	15213	3.965	ug/l	89
69) o-Xylene	10.647	106	6245	1.626	ug/l	99
70) Styrene	10.659	104	1487	0.233	ug/l #	47
76) 1,2,3-Trichloropropane	11.086	75	65191	22.464	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.086	75	65191	64.830	ug/l #	13

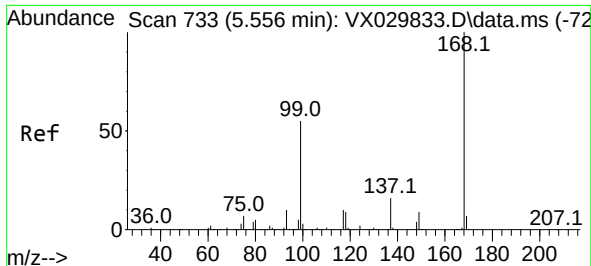
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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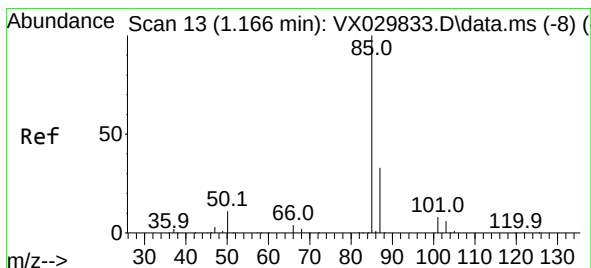
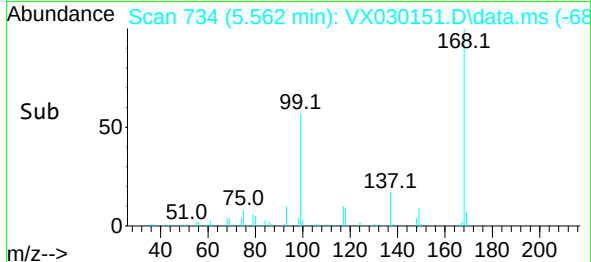
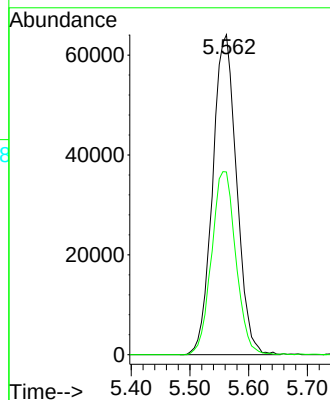
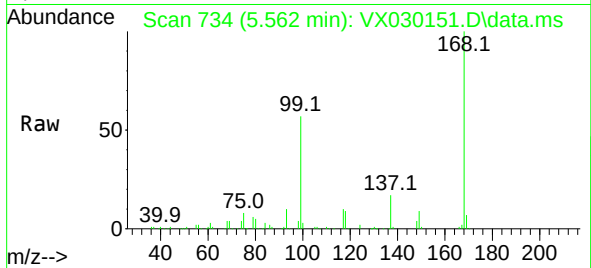




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

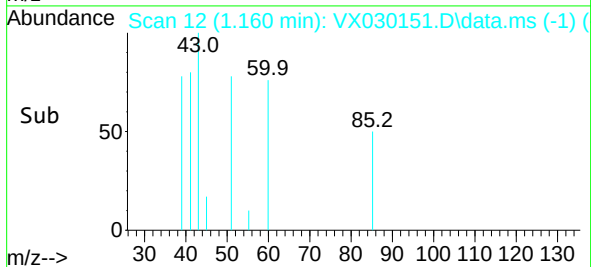
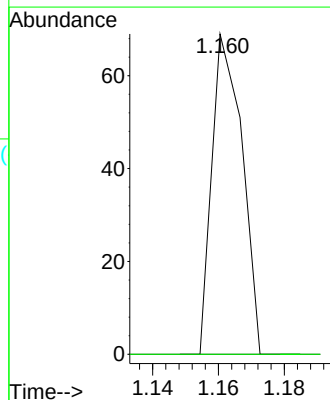
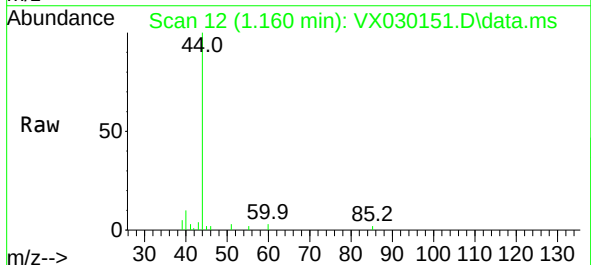
Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

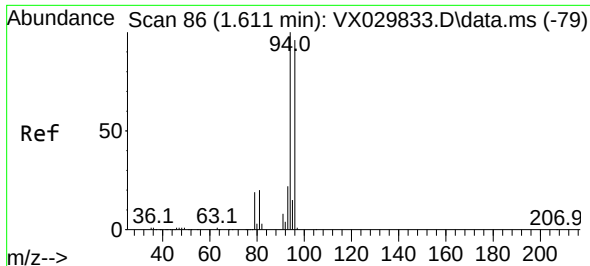
Tgt Ion:168 Resp: 181672
Ion Ratio Lower Upper
168 100
99 57.1 44.0 66.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.160 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion: 85 Resp: 44
Ion Ratio Lower Upper
85 100
87 0.0 16.5 49.5#

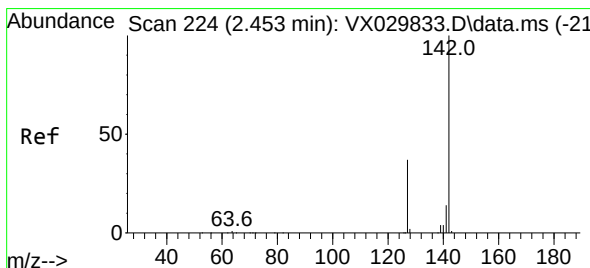
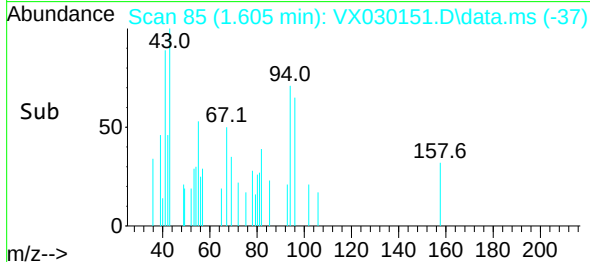
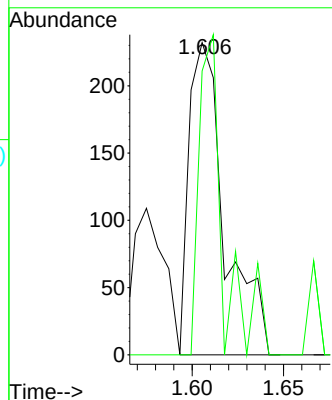
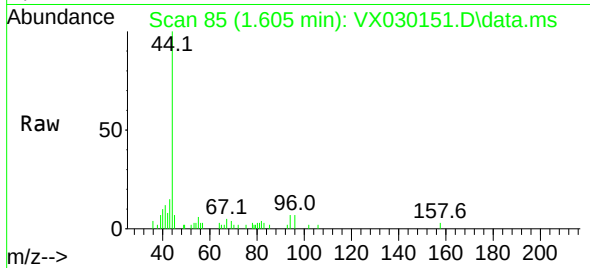




#5
Bromomethane
Concen: 0.356 ug/l
RT: 1.605 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

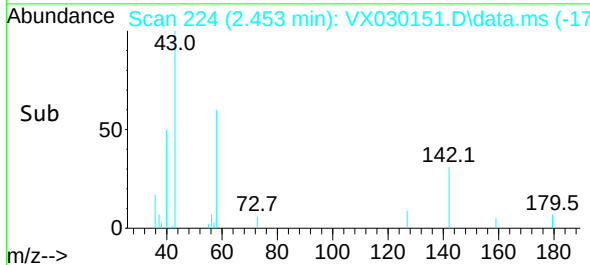
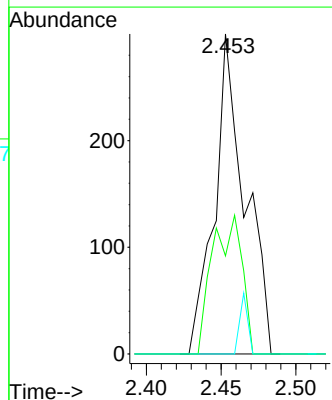
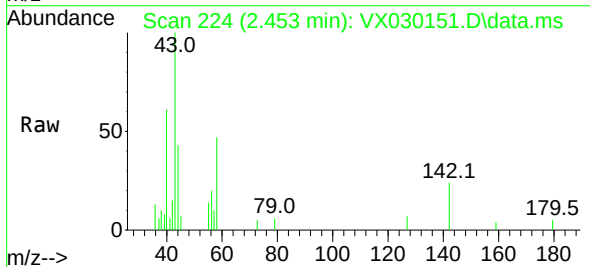
Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

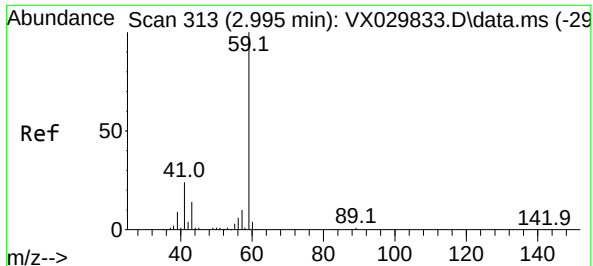
Tgt Ion: 94 Resp: 318
Ion Ratio Lower Upper
94 100
96 90.9 76.9 115.3



#10
Methyl Iodide
Concen: 2.630 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion: 142 Resp: 425
Ion Ratio Lower Upper
142 100
127 42.1 30.2 45.2
141 4.9 11.3 16.9#





#11

Tert butyl alcohol

Concen: 9.078 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.030 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

Instrument :

MSVOA_X

ClientSampleId :

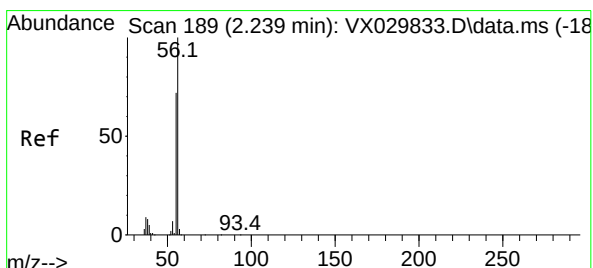
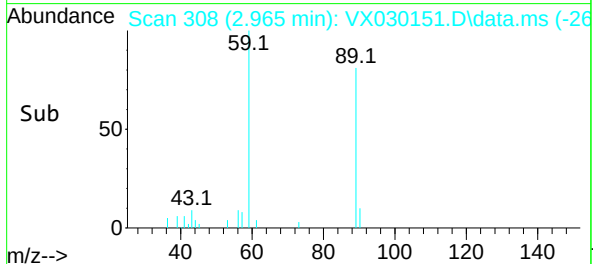
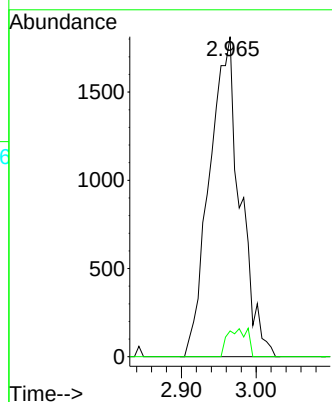
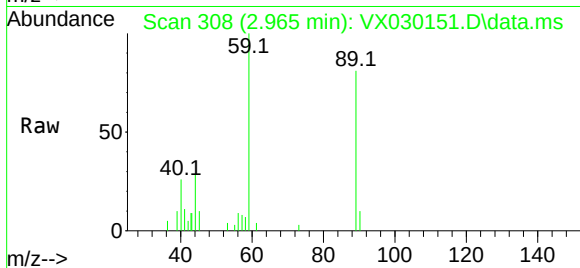
ORA-0019

Tgt Ion: 59 Resp: 5181

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#



#13

Acrolein

Concen: 18.651 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.013 min

Lab File: VX030151.D

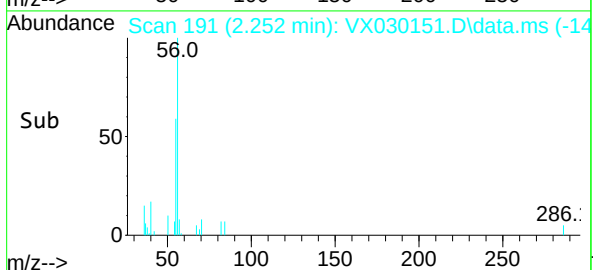
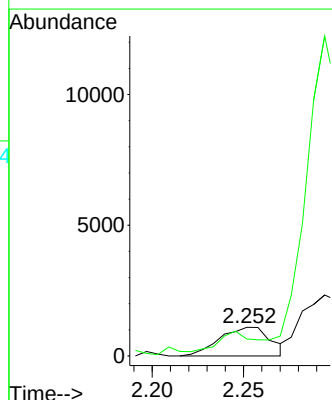
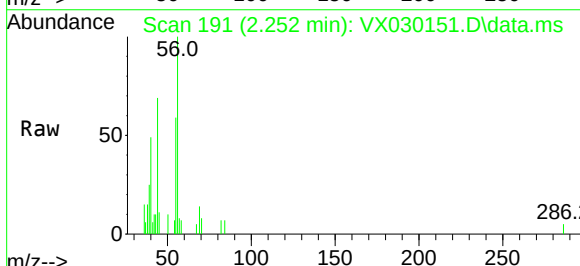
Acq: 20 Jul 2022 23:04

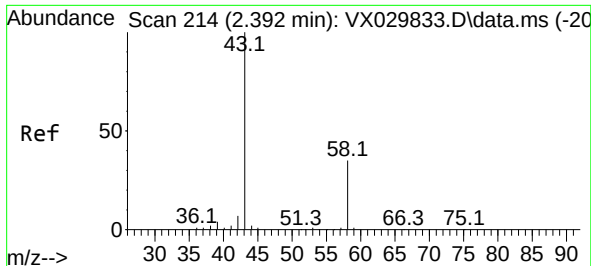
Tgt Ion: 56 Resp: 2120

Ion Ratio Lower Upper

56 100

55 53.6 56.6 84.8#

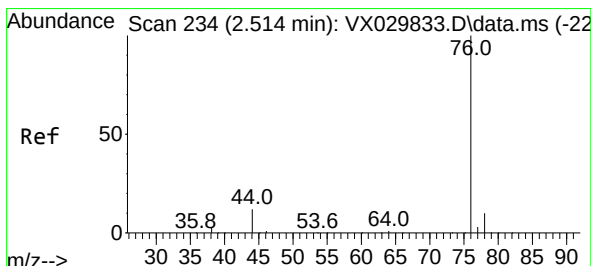
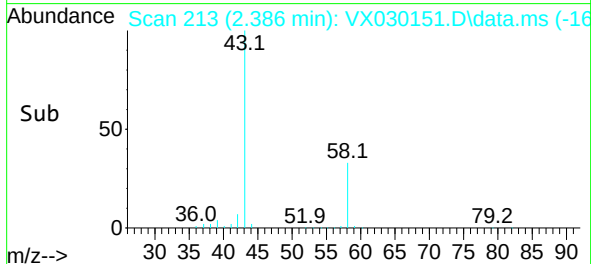
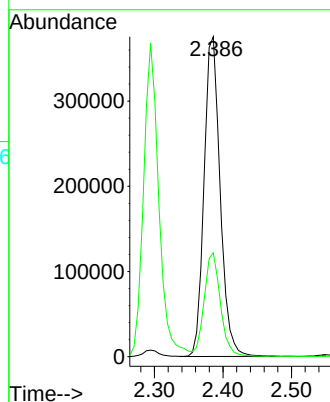
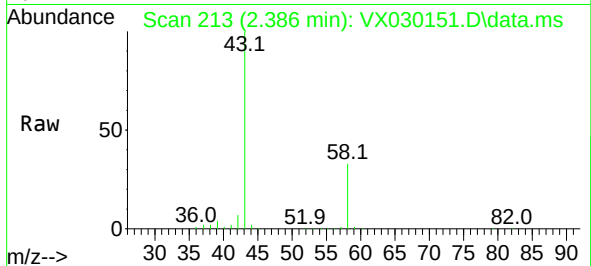




#16
Acetone
Concen: 590.679 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

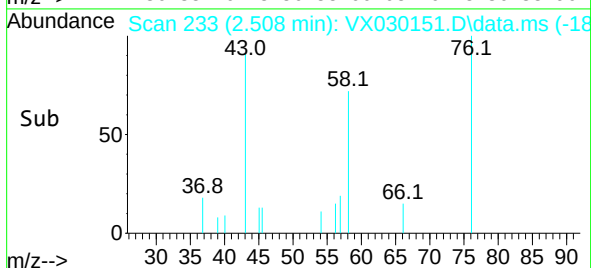
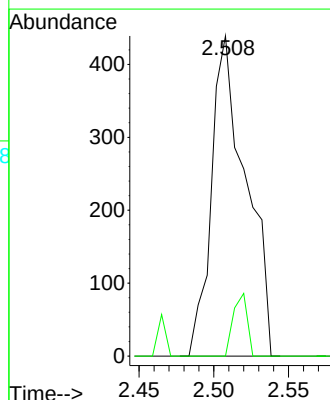
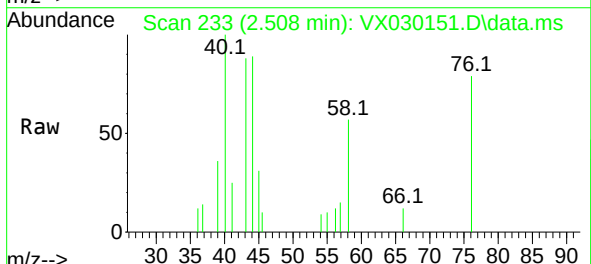
Instrument :
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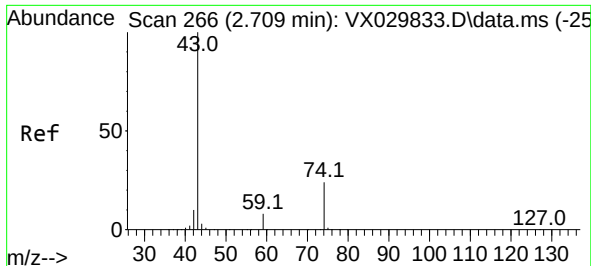
Tgt Ion: 43 Resp: 615468
Ion Ratio Lower Upper
43 100
58 32.5 27.7 41.5



#17
Carbon Disulfide
Concen: Below Cal
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion: 76 Resp: 704
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.6#

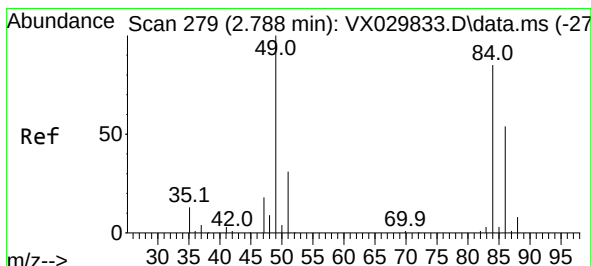
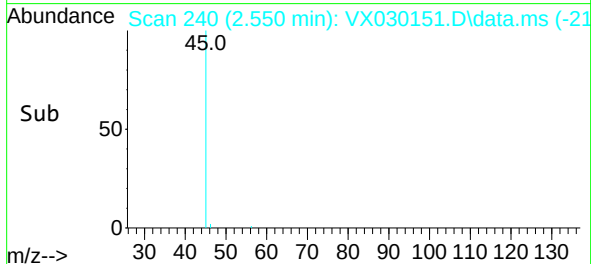
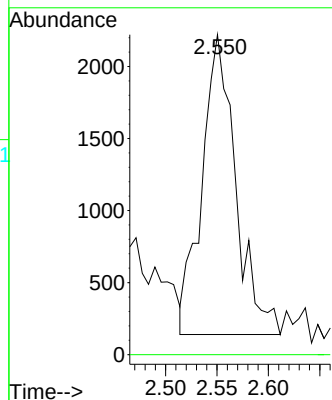
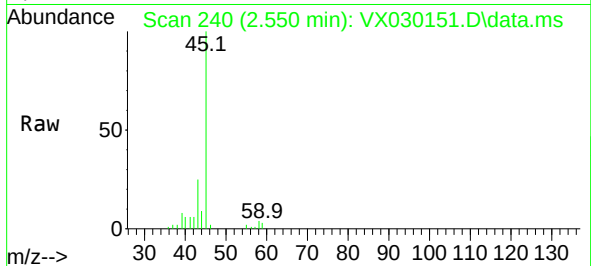




#18
Methyl Acetate
Concen: 1.501 ug/l
RT: 2.550 min Scan# 24
Delta R.T. -0.159 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

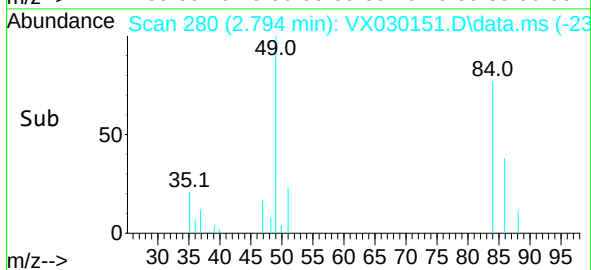
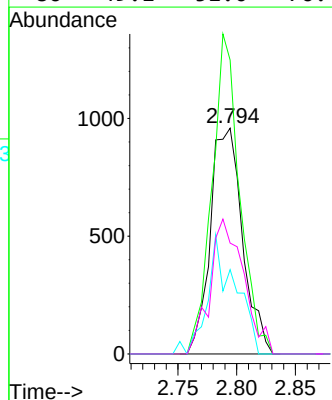
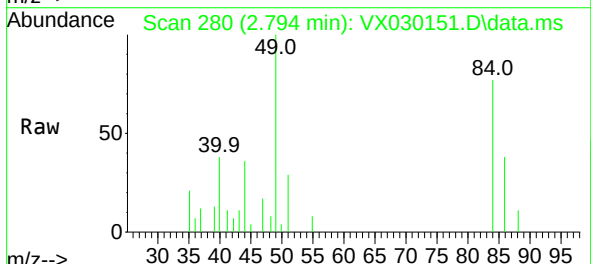
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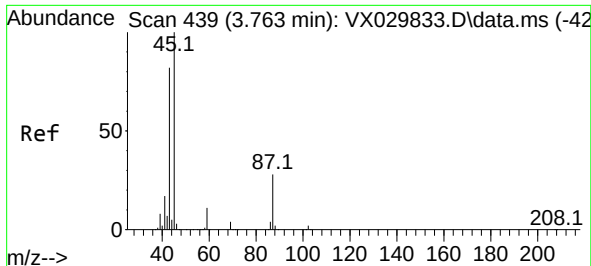
Tgt Ion: 43 Resp: 4759
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion: 84 Resp: 1828
Ion Ratio Lower Upper
84 100
49 130.1 93.8 140.6
51 37.3 29.4 44.0
86 49.1 51.0 76.4#

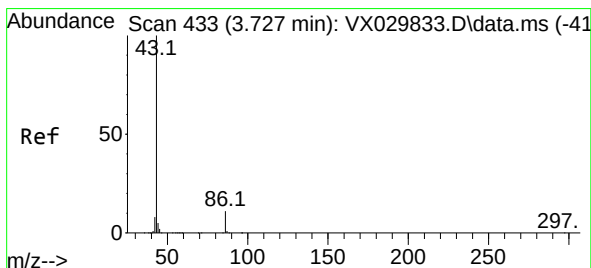
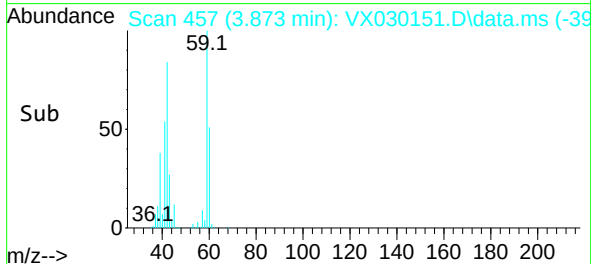
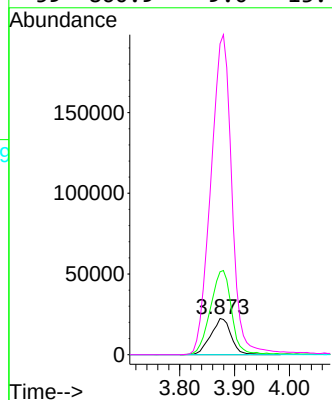
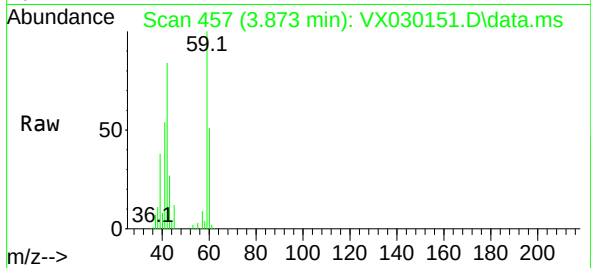




#22
Diisopropyl ether
Concen: 9.146 ug/l
RT: 3.873 min Scan# 41
Delta R.T. 0.110 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

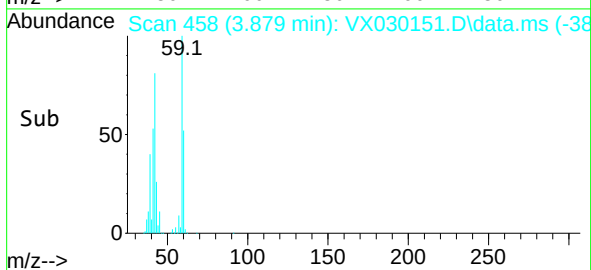
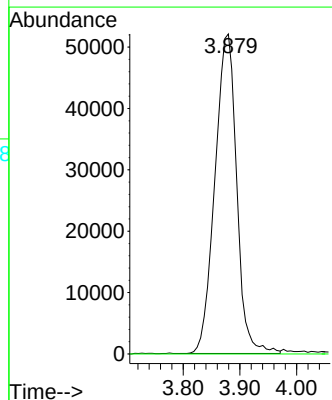
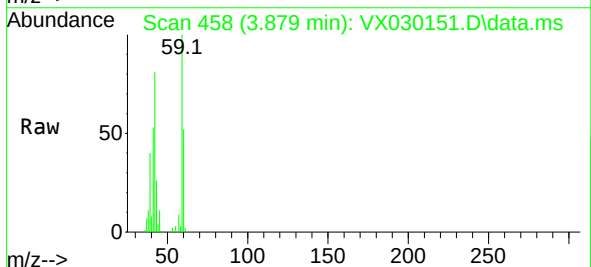
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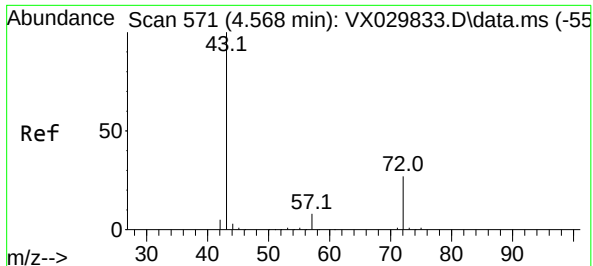
Tgt Ion: 45	Resp: 57905
Ion Ratio	Lower Upper
45 100	
43 229.3	65.4 98.0#
87 0.0	22.3 33.5#
59 860.9	9.0 13.4#



#23
Vinyl Acetate
Concen: 25.924 ug/l
RT: 3.879 min Scan# 458
Delta R.T. 0.152 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion: 43	Resp: 138952
Ion Ratio	Lower Upper
43 100	
86 0.0	8.5 12.7#





#25

2-Butanone

Concen: 5.976 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

Instrument :

MSVOA_X

ClientSampleId :

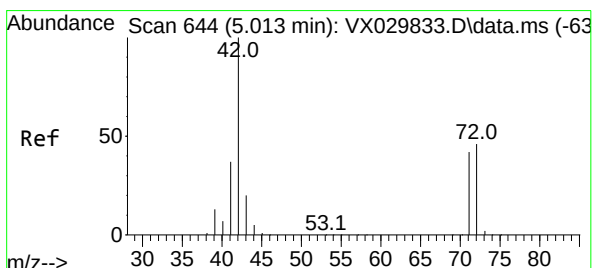
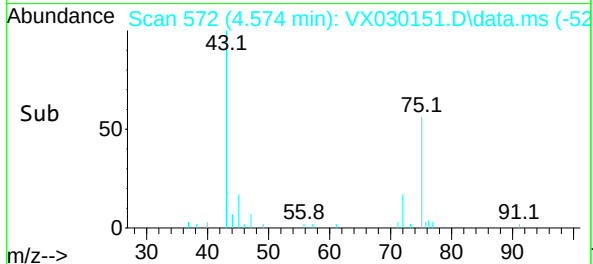
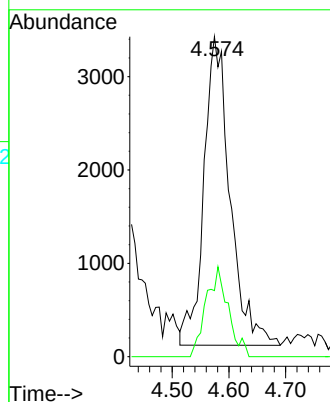
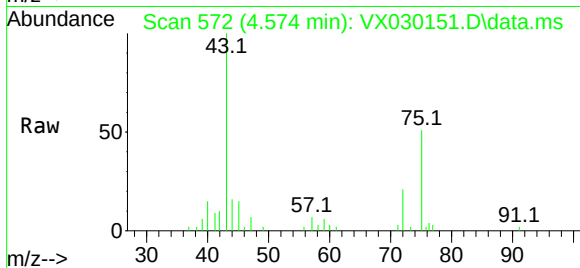
ORA-0019

Tgt Ion: 43 Resp: 10607

Ion Ratio Lower Upper

43 100

72 21.4 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.287 ug/l

RT: 5.038 min Scan# 648

Delta R.T. 0.025 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

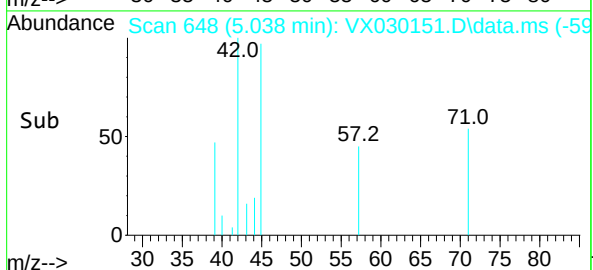
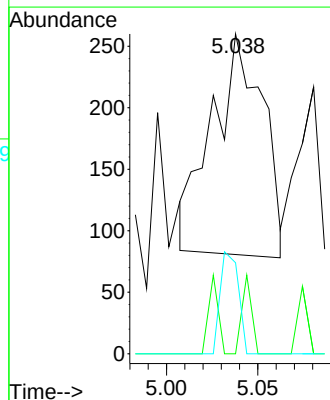
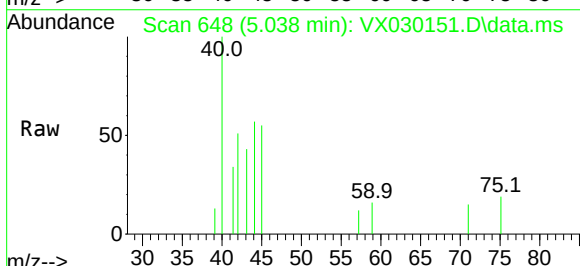
Tgt Ion: 42 Resp: 346

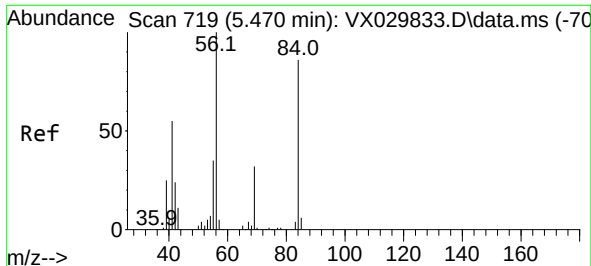
Ion Ratio Lower Upper

42 100

72 6.6 36.5 54.7#

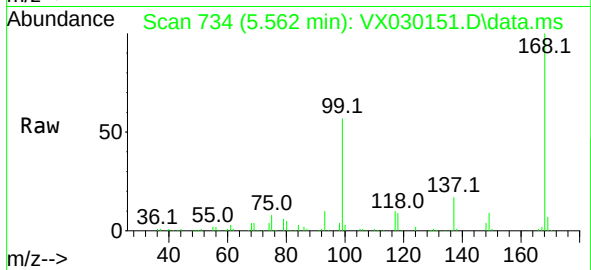
71 16.5 33.9 50.9#



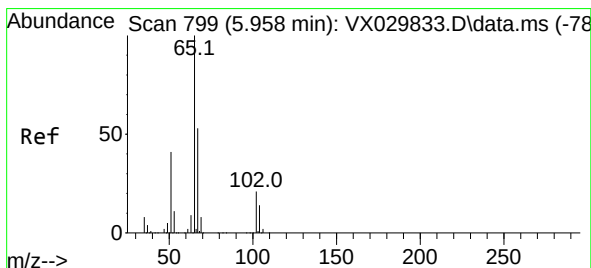
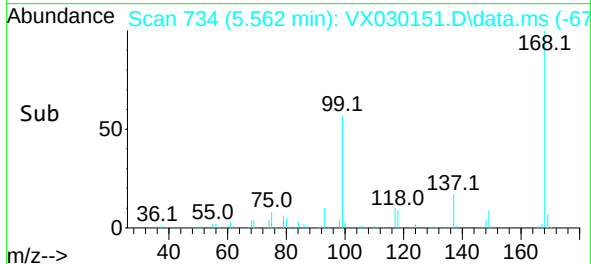
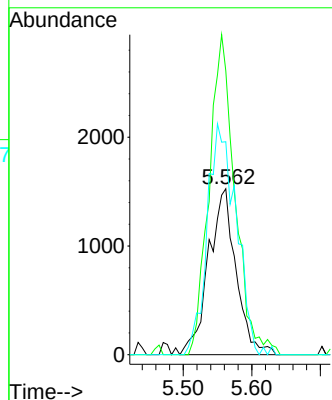


#31
Cyclohexane
Concen: 1.330 ug/l
RT: 5.562 min Scan# 719
Delta R.T. 0.092 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

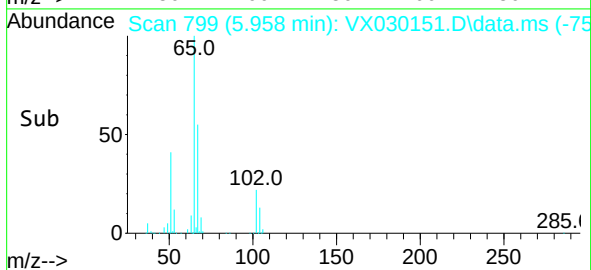
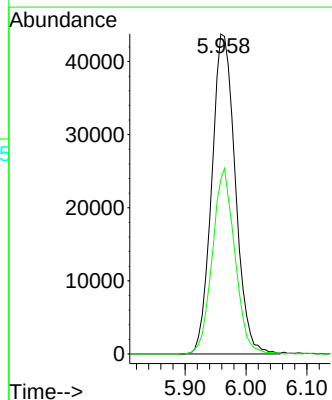
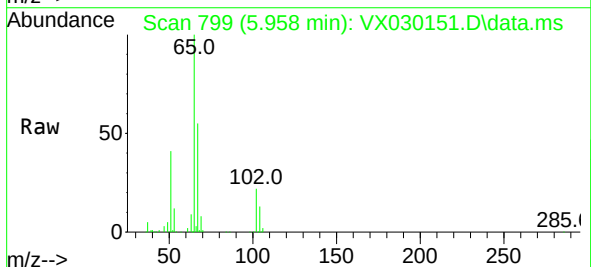


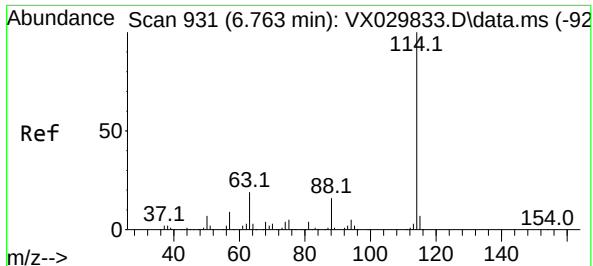
Tgt Ion: 56 Resp: 4265
Ion Ratio Lower Upper
56 100
69 171.1 25.4 38.0#
84 128.3 68.9 103.3#



#33
1,2-Dichloroethane-d4
Concen: 53.128 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion: 65 Resp: 117481
Ion Ratio Lower Upper
65 100
67 55.3 0.0 109.6

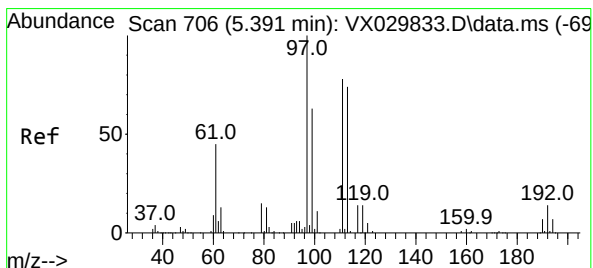
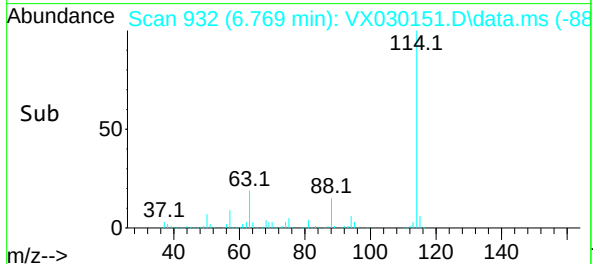
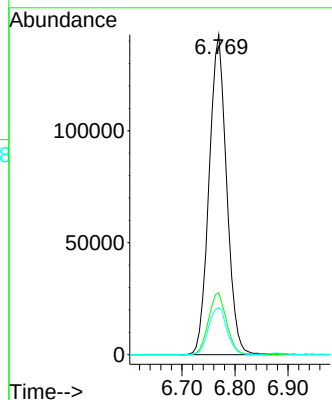
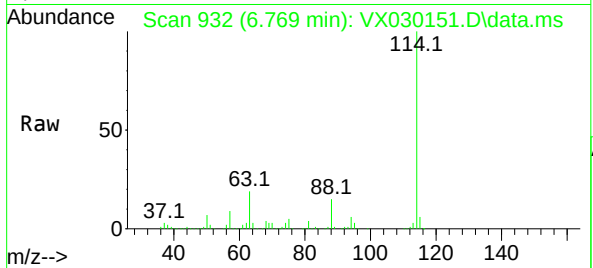




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.006 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

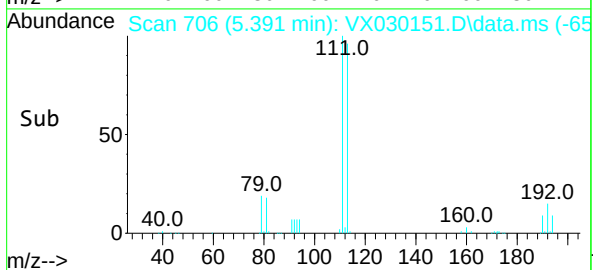
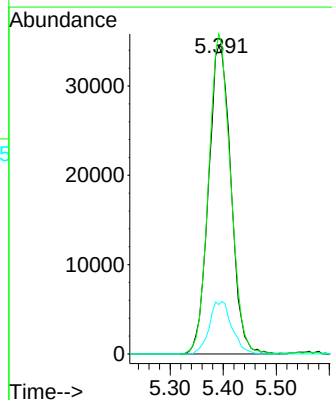
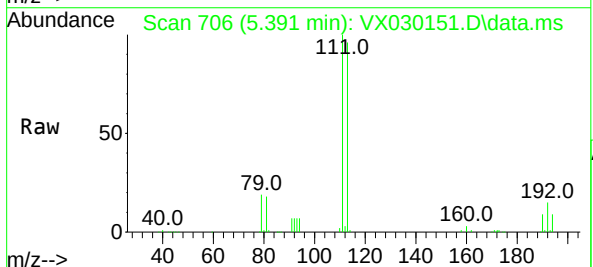
Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

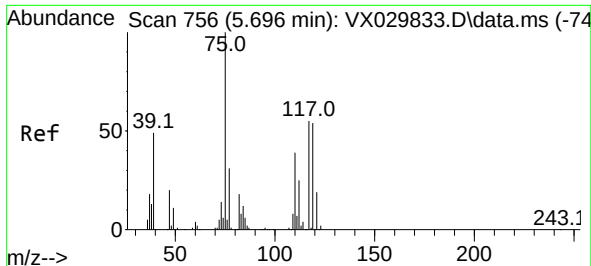
Tgt Ion:114 Resp: 328638
Ion Ratio Lower Upper
114 100
63 19.4 0.0 38.4
88 14.6 0.0 31.8



#35
Dibromofluoromethane
Concen: 48.276 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion:113 Resp: 101354
Ion Ratio Lower Upper
113 100
111 101.7 83.2 124.8
192 17.1 14.8 22.2





#36

1,1-Dichloropropene

Concen: 5.504 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

Instrument :

MSVOA_X

ClientSampleId :

ORA-0019

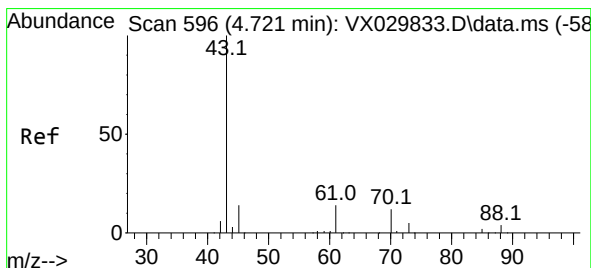
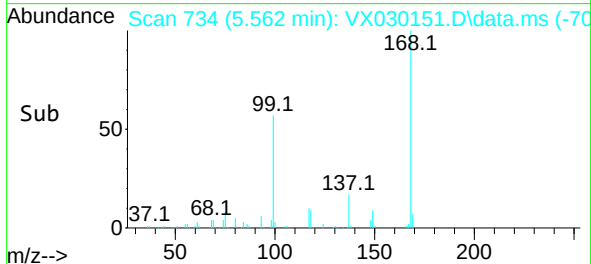
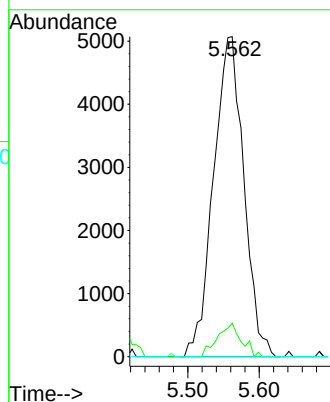
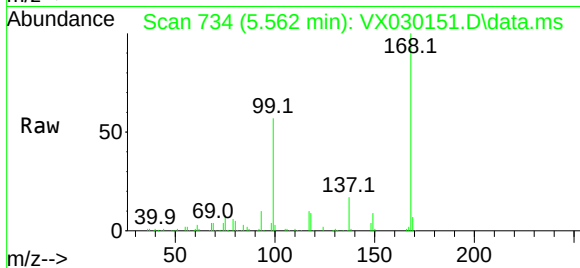
Tgt Ion: 75 Resp: 14926

Ion Ratio Lower Upper

75 100

110 8.3 19.3 57.9#

77 0.0 24.4 36.6#



#37

Ethyl Acetate

Concen: 3.039 ug/l

RT: 4.574 min Scan# 572

Delta R.T. -0.147 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

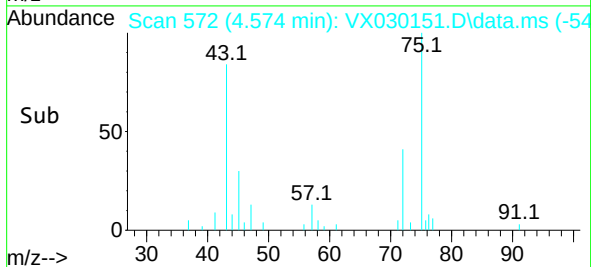
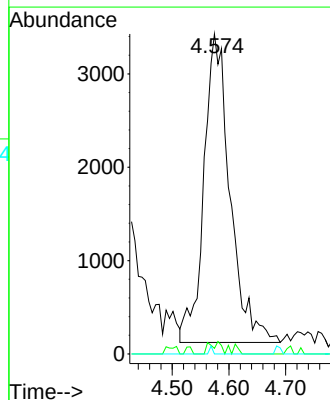
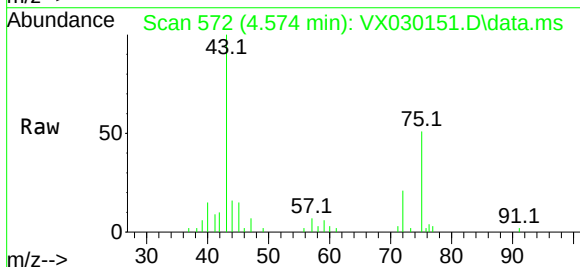
Tgt Ion: 43 Resp: 10591

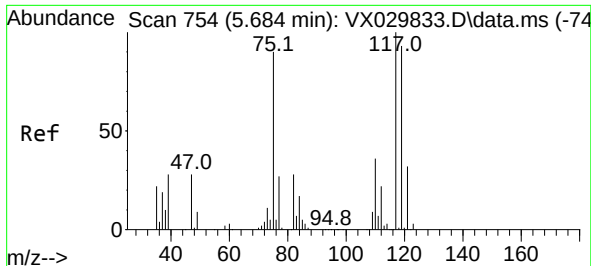
Ion Ratio Lower Upper

43 100

61 0.9 11.7 17.5#

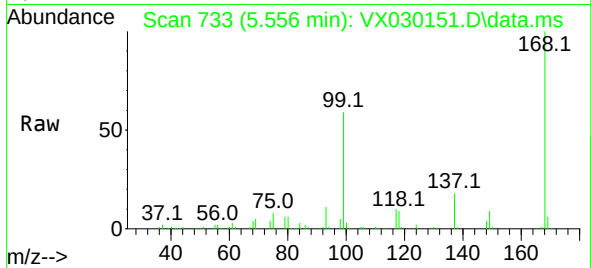
70 0.3 9.3 13.9#



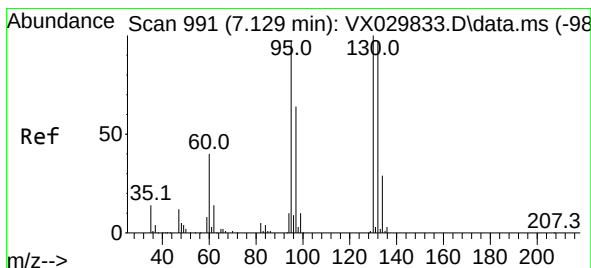
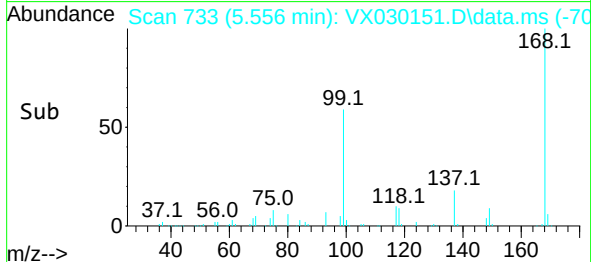
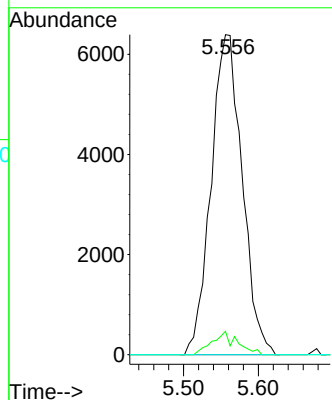


#38
Carbon Tetrachloride
Concen: 7.311 ug/l
RT: 5.556 min Scan# 713
Delta R.T. -0.128 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

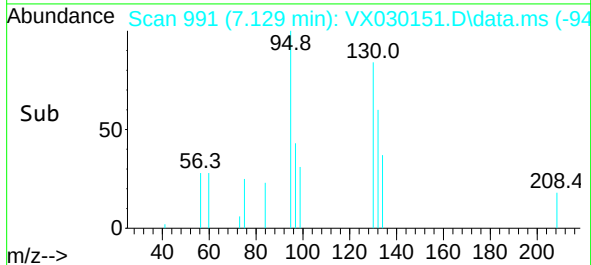
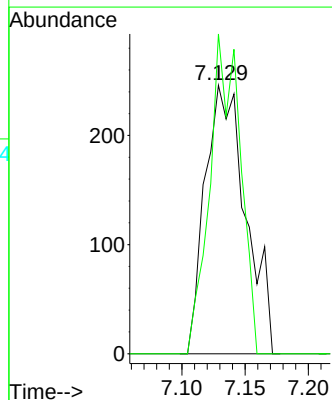
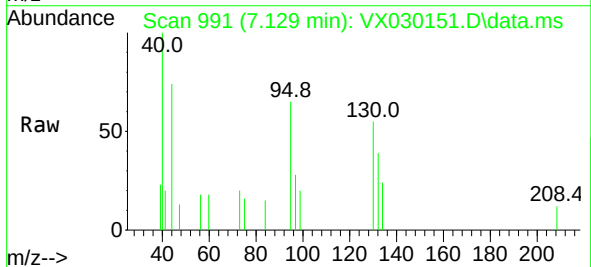


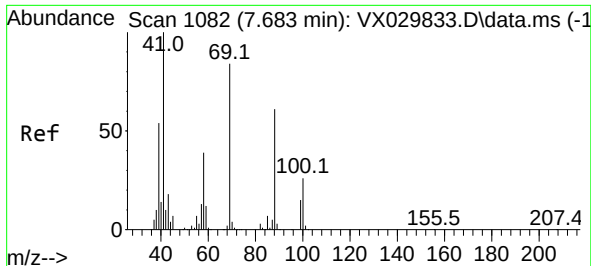
Tgt Ion:117 Resp: 18488
Ion Ratio Lower Upper
117 100
119 7.3 74.1 111.1#
121 0.0 25.8 38.8#



#44
Trichloroethene
Concen: 0.221 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion:130 Resp: 550
Ion Ratio Lower Upper
130 100
95 119.1 0.0 194.8





#49

1,4-Dioxane

Concen: 0.366 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.012 min

Lab File: VX030151.D

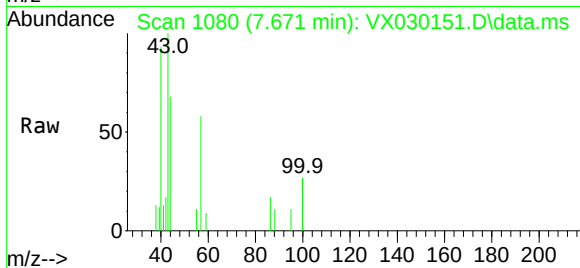
Acq: 20 Jul 2022 23:04

Instrument :

MSVOA_X

ClientSampleId :

ORA-0019



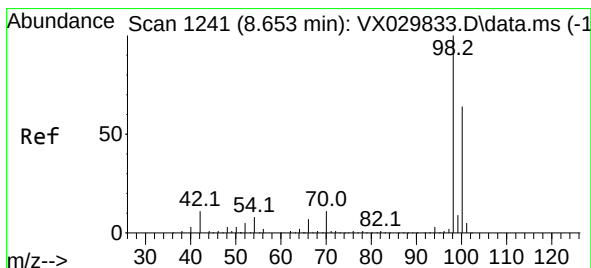
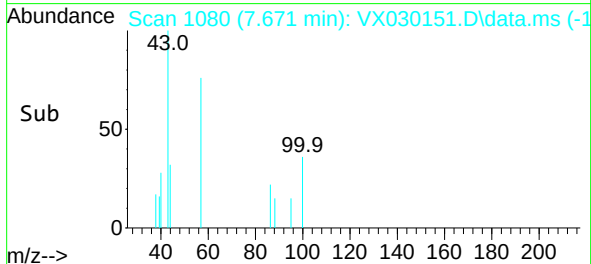
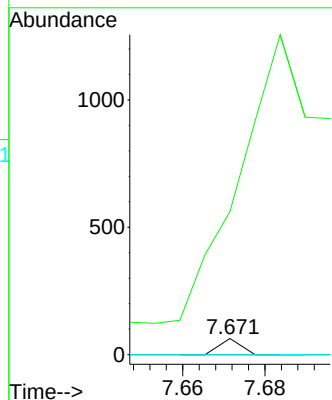
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 10352.2 23.8 35.8#

58 0.0 53.8 80.6#



#50

Toluene-d8

Concen: 49.070 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX030151.D

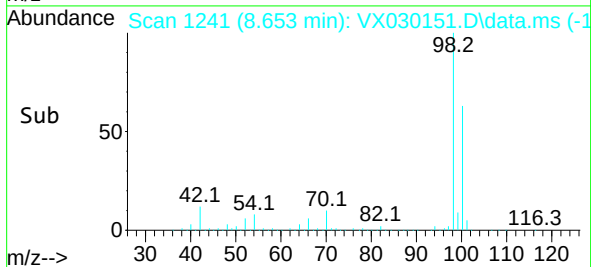
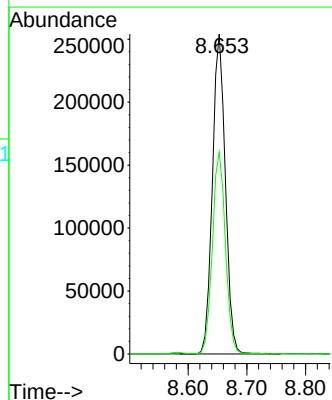
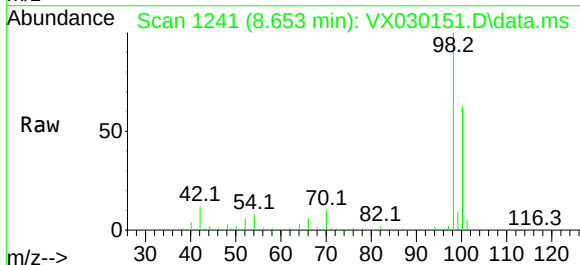
Acq: 20 Jul 2022 23:04

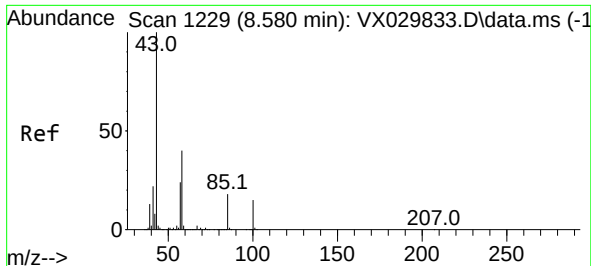
Tgt Ion: 98 Resp: 387454

Ion Ratio Lower Upper

98 100

100 63.4 52.3 78.5

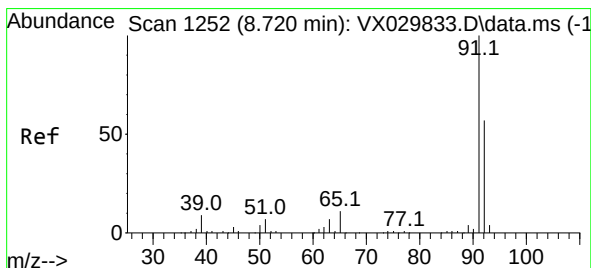
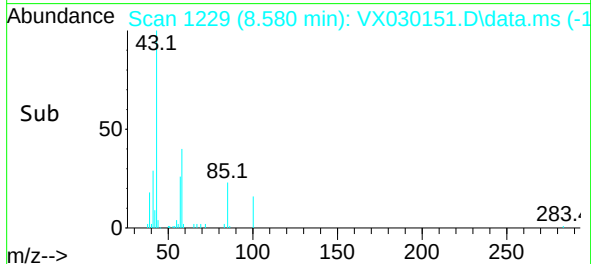
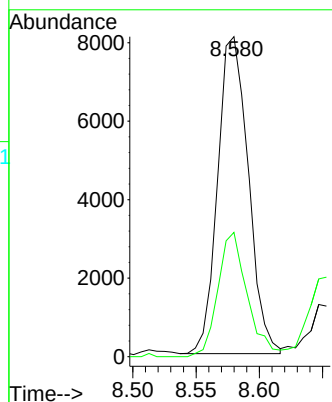
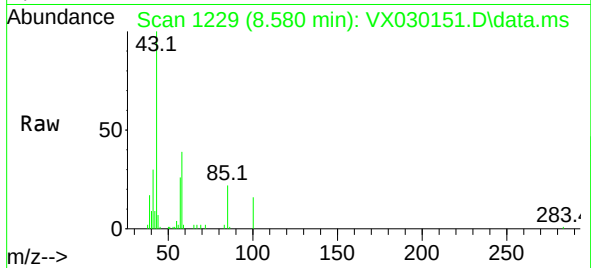




#51
4-Methyl-2-Pentanone
Concen: 3.924 ug/l
RT: 8.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

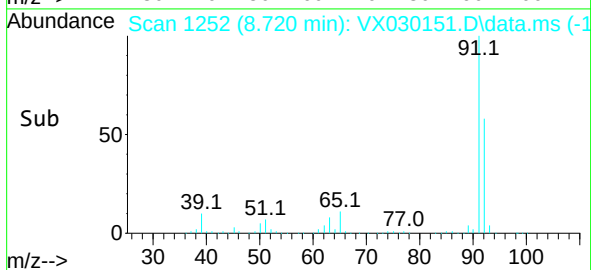
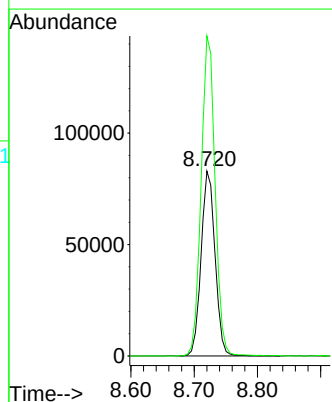
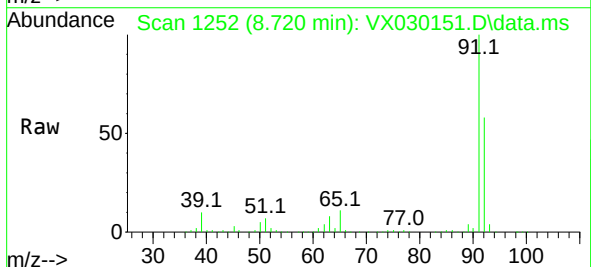
Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

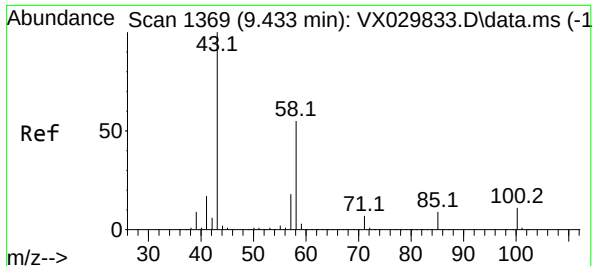
Tgt Ion: 43 Resp: 13607
Ion Ratio Lower Upper
43 100
58 37.5 31.4 47.2



#52
Toluene
Concen: 23.487 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion: 92 Resp: 127299
Ion Ratio Lower Upper
92 100
91 173.1 139.2 208.8





#59

2-Hexanone

Concen: 0.325 ug/l

RT: 9.439 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

Instrument :

MSVOA_X

ClientSampleId :

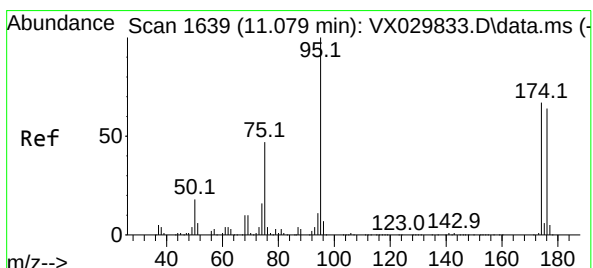
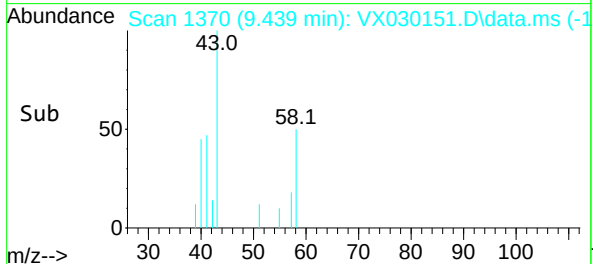
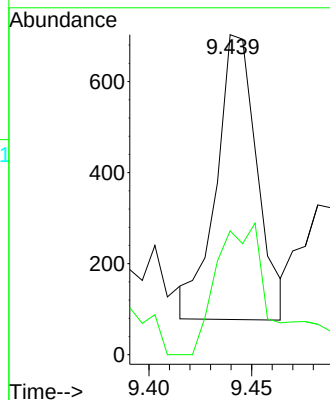
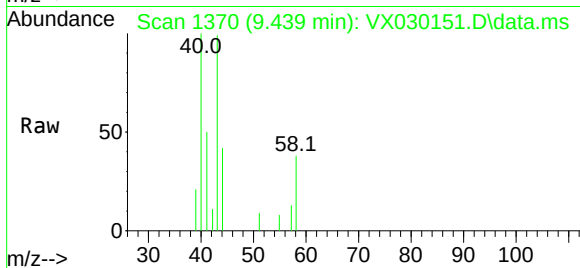
ORA-0019

Tgt Ion: 43 Resp: 865

Ion Ratio Lower Upper

43 100

58 67.4 27.6 82.8



#62

4-Bromofluorobenzene

Concen: 47.656 ug/l

RT: 11.086 min Scan# 1640

Delta R.T. 0.007 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

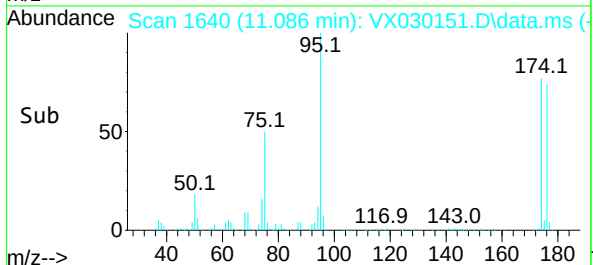
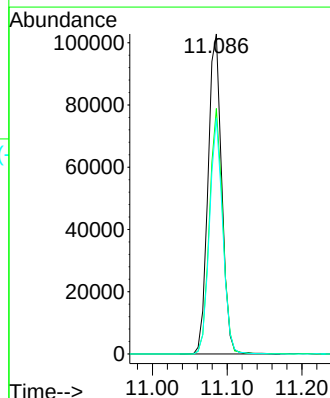
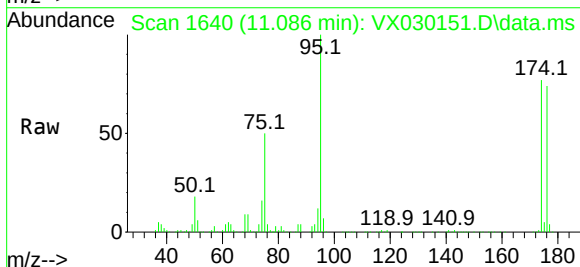
Tgt Ion: 95 Resp: 130583

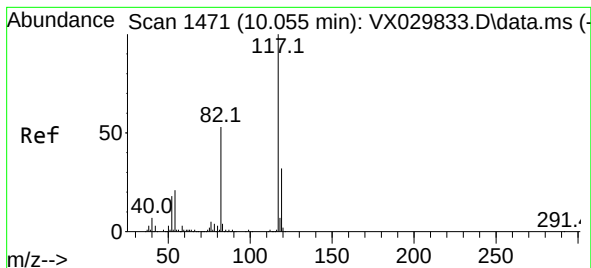
Ion Ratio Lower Upper

95 100

174 74.3 0.0 149.0

176 70.7 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

Instrument :

MSVOA_X

ClientSampleId :

ORA-0019

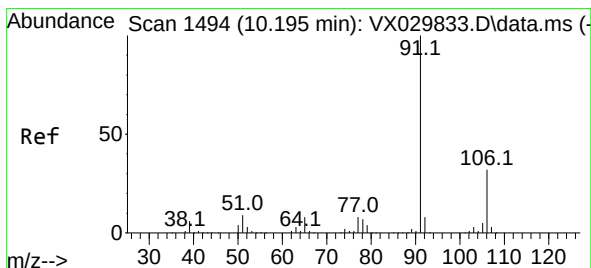
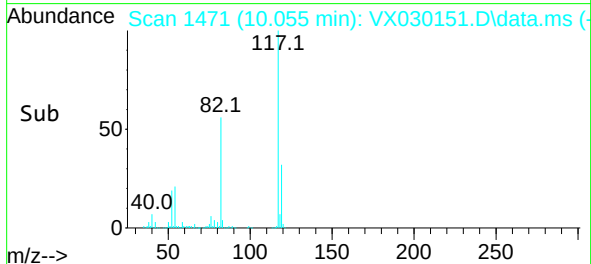
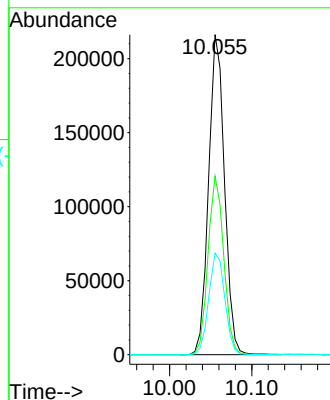
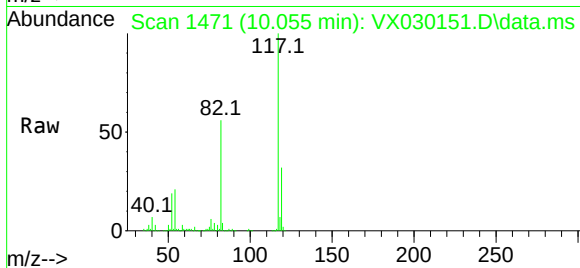
Tgt Ion:117 Resp: 289867

Ion Ratio Lower Upper

117 100

82 55.8 42.7 64.1

119 31.7 25.4 38.2



#67

Ethyl Benzene

Concen: 0.954 ug/l

RT: 10.202 min Scan# 1495

Delta R.T. 0.007 min

Lab File: VX030151.D

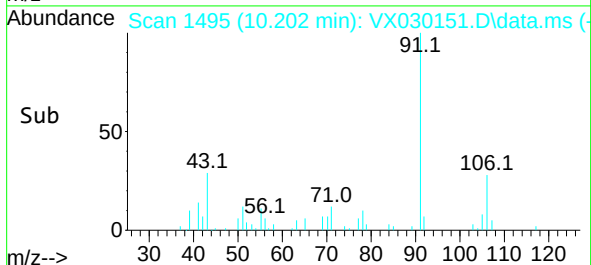
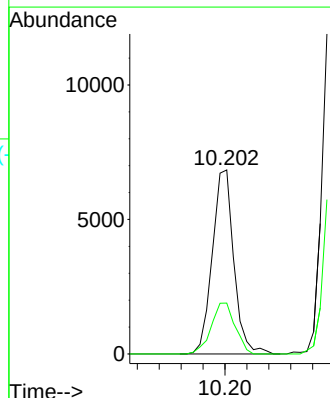
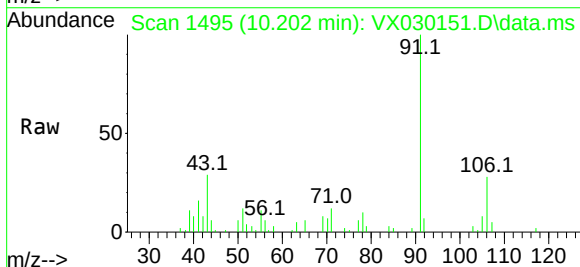
Acq: 20 Jul 2022 23:04

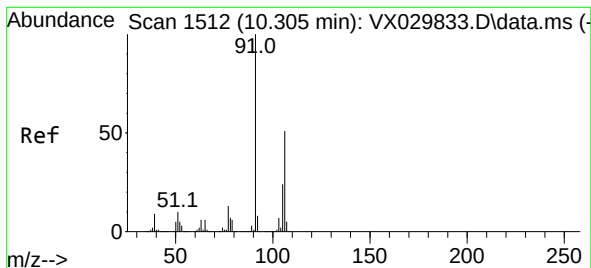
Tgt Ion: 91 Resp: 9336

Ion Ratio Lower Upper

91 100

106 27.7 25.5 38.3

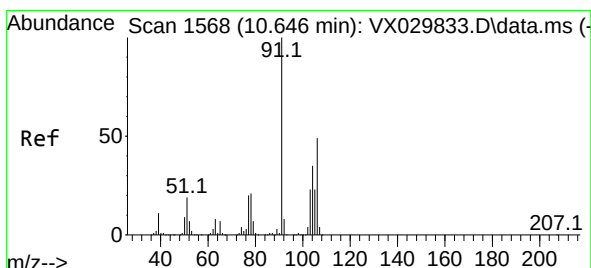
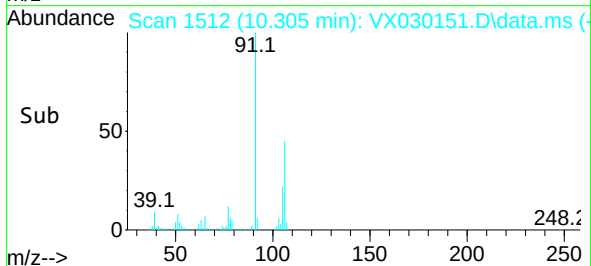
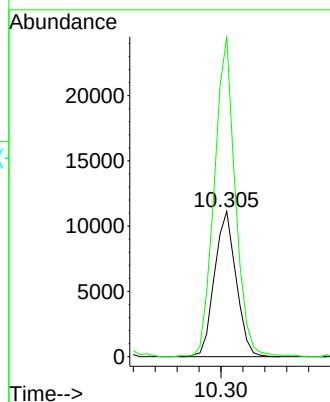
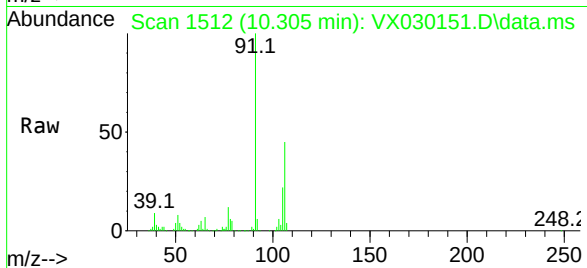




#68
m/p-Xylenes
Concen: 3.965 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

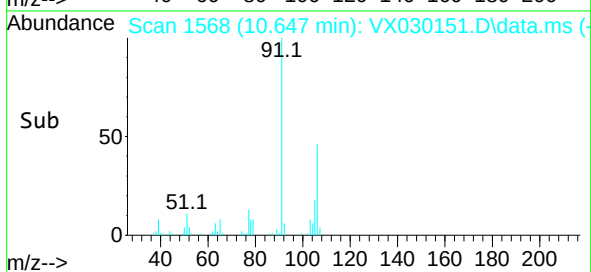
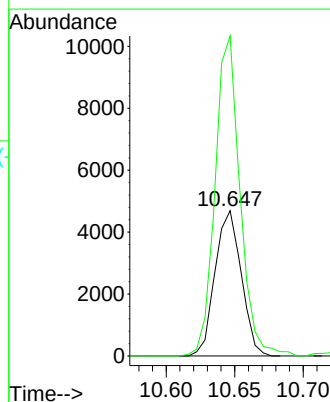
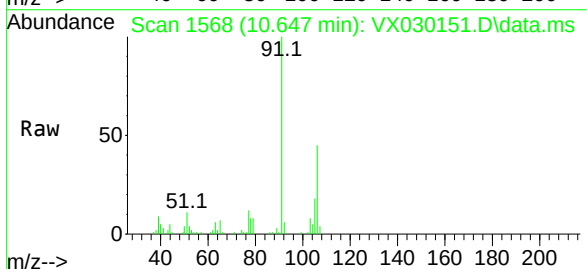
Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

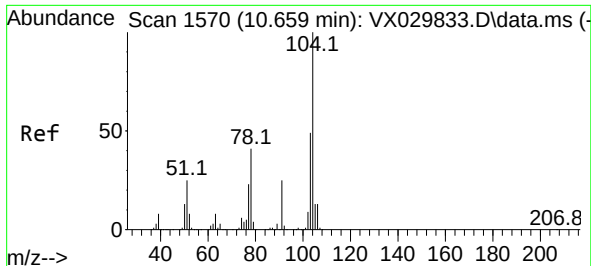
Tgt Ion:106 Resp: 15213
Ion Ratio Lower Upper
106 100
91 214.8 158.2 237.4



#69
o-Xylene
Concen: 1.626 ug/l
RT: 10.647 min Scan# 1568
Delta R.T. 0.001 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion:106 Resp: 6245
Ion Ratio Lower Upper
106 100
91 209.6 103.8 311.6

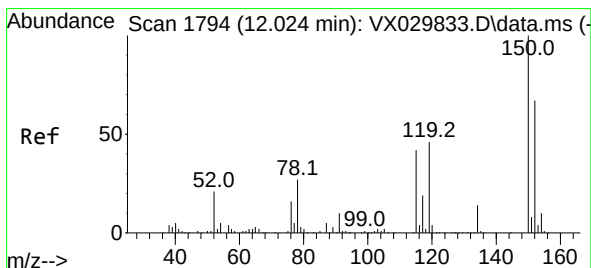
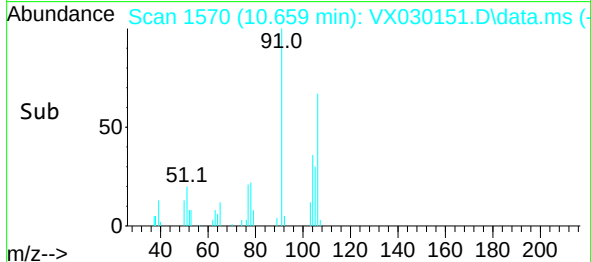
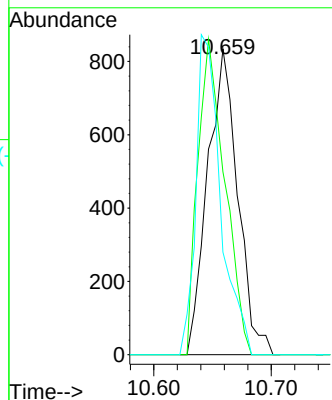
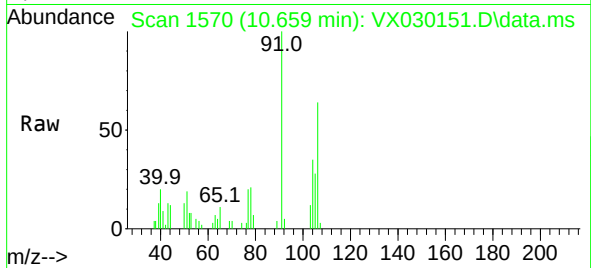




#70
Styrene
Concen: 0.233 ug/l
RT: 10.659 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

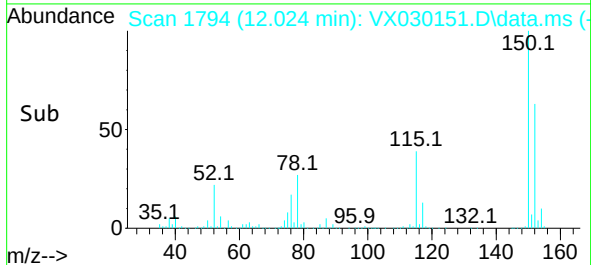
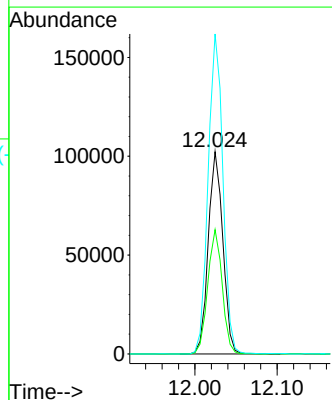
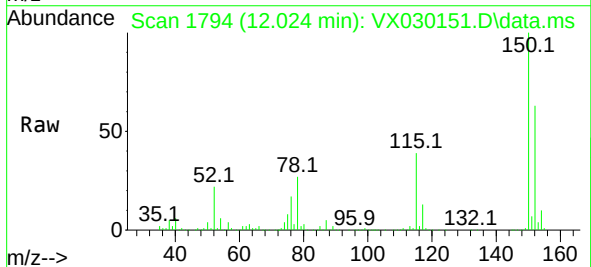
Instrument :
MSVOA_X
ClientSampleId :
ORA-0019

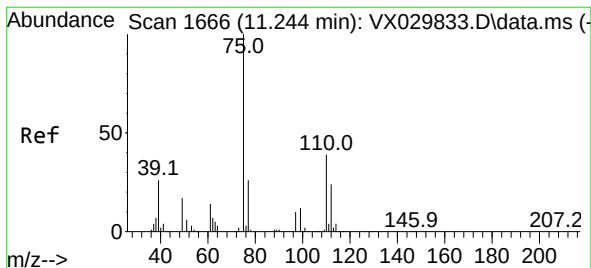
Tgt Ion:104 Resp: 1487
Ion Ratio Lower Upper
104 100
78 92.3 37.8 56.8#
103 85.8 44.5 66.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX030151.D
Acq: 20 Jul 2022 23:04

Tgt Ion:152 Resp: 126220
Ion Ratio Lower Upper
152 100
115 60.7 40.5 121.5
150 160.0 0.0 347.0





#76

1,2,3-Trichloropropane

Concen: 22.464 ug/l

RT: 11.086 min Scan# 1

Delta R.T. -0.158 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

Instrument :

MSVOA_X

ClientSampleId :

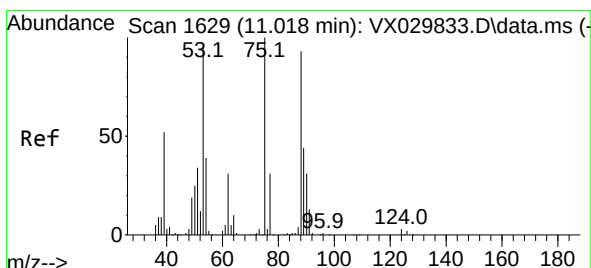
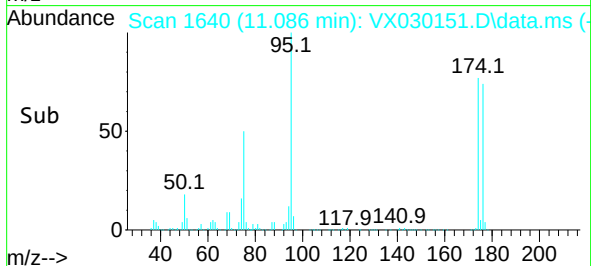
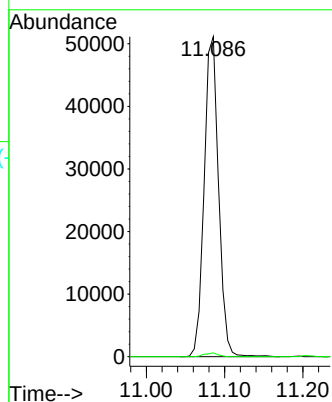
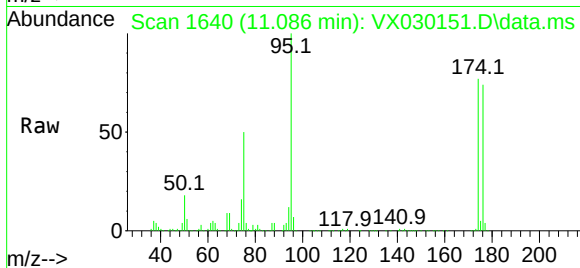
ORA-0019

Tgt Ion: 75 Resp: 65191

Ion Ratio Lower Upper

75 100

77 1.1 19.8 59.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.830 ug/l

RT: 11.086 min Scan# 1640

Delta R.T. 0.068 min

Lab File: VX030151.D

Acq: 20 Jul 2022 23:04

Tgt Ion: 75 Resp: 65191

Ion Ratio Lower Upper

75 100

53 0.3 74.2 111.4#

89 0.0 34.8 52.2#

