

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111723\
 Data File : VX038873.D
 Acq On : 17 Nov 2023 12:24
 Operator : JC/MD
 Sample : 05363-01DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FSND-GEP-2-20231107DL

Quant Time: Nov 17 22:48:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111623W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 16 22:59:22 2023
 Response via : Initial Calibration

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

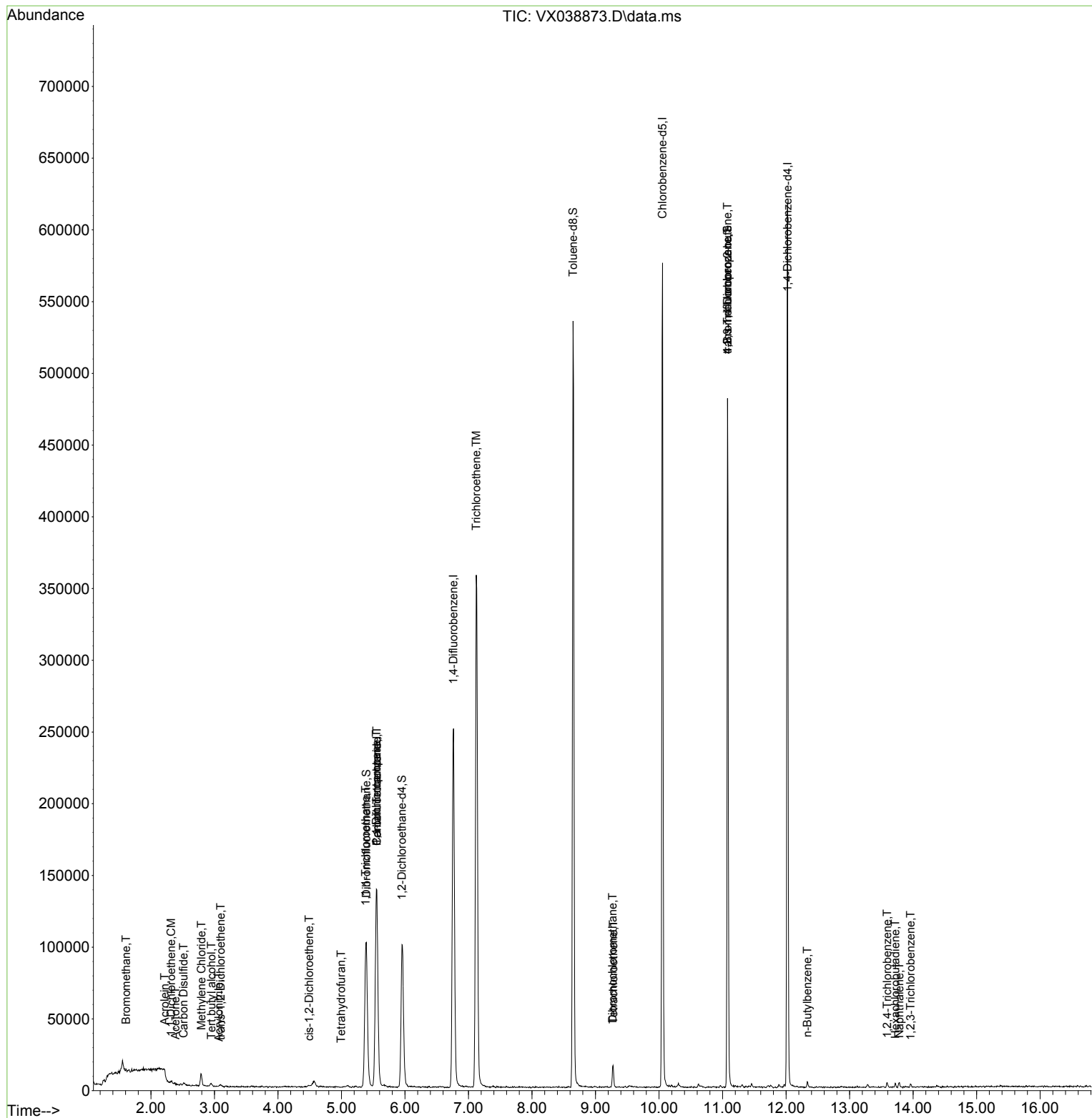
Internal Standards						
1) Pentafluorobenzene	5.556	168	126922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	256606	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	255446	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	125302	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	93628	45.780	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.560%		
35) Dibromofluoromethane	5.391	113	82406	44.465	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.940%		
50) Toluene-d8	8.647	98	322636	45.501	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	91.000%#		
62) 4-Bromofluorobenzene	11.079	95	133626	47.077	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.160%		
Target Compounds					Qvalue	
5) Bromomethane	1.605	94	222	0.288	ug/l #	38
11) Tert butyl alcohol	2.953	59	1358	2.387	ug/l #	78
12) 1,1-Dichloroethene	2.318	96	773	0.489	ug/l #	78
13) Acrolein	2.215	56	250	0.831	ug/l	86
15) Acrylonitrile	3.068	53	647	0.538	ug/l #	74
16) Acetone	2.386	43	740	0.680	ug/l #	88
17) Carbon Disulfide	2.514	76	1696	0.346	ug/l #	88
20) Methylene Chloride	2.794	84	4176	2.128	ug/l	93
21) trans-1,2-Dichloroethene	3.099	96	439	0.252	ug/l #	79
27) cis-1,2-Dichloroethene	4.489	96	438	0.215	ug/l	30
29) Tetrahydrofuran	4.995	42	300	0.268	ug/l #	64
32) 1,1,1-Trichloroethane	5.379	97	9857	3.587	ug/l	98
36) 1,1-Dichloropropene	5.550	75	11237	4.231	ug/l #	51
38) Carbon Tetrachloride	5.556	117	14060	5.727	ug/l #	16
44) Trichloroethene	7.122	130	136383	71.321	ug/l	93
60) Dibromochloromethane	9.268	129	3013	1.457	ug/l #	11
64) Tetrachloroethene	9.281	164	2950	1.858	ug/l	83
76) 1,2,3-Trichloropropane	11.079	75	67849	21.703	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	67849	48.139	ug/l #	5
89) n-Butylbenzene	12.335	91	1840	0.215	ug/l	86
93) 1,2,4-Trichlorobenzene	13.591	180	805	0.295	ug/l	88
94) Hexachlorobutadiene	13.719	225	377	0.390	ug/l	83
95) Naphthalene	13.786	128	2918	0.287	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	685	0.265	ug/l	92

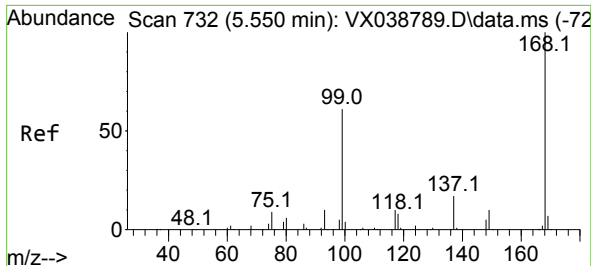
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

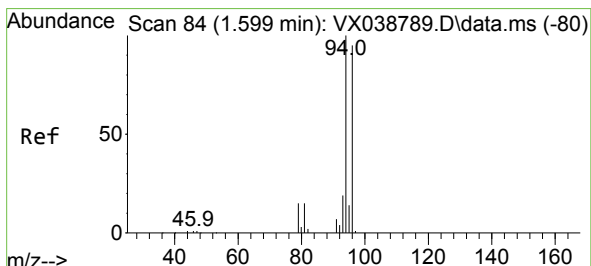
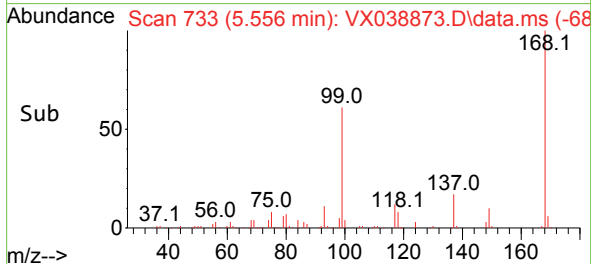
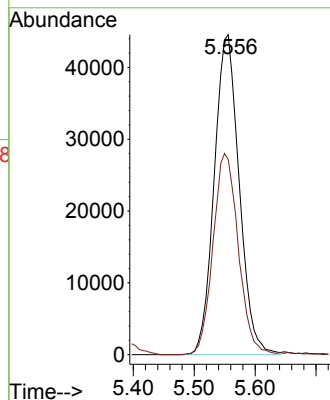
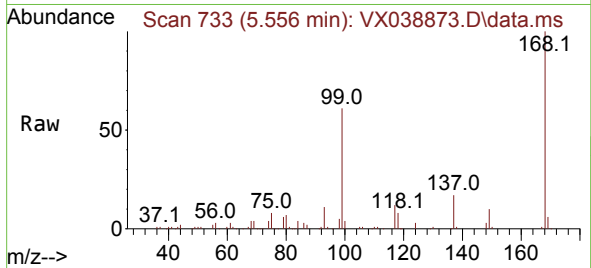




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

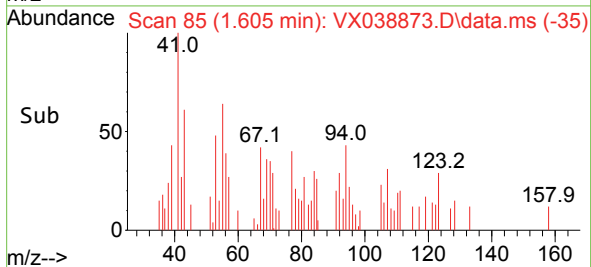
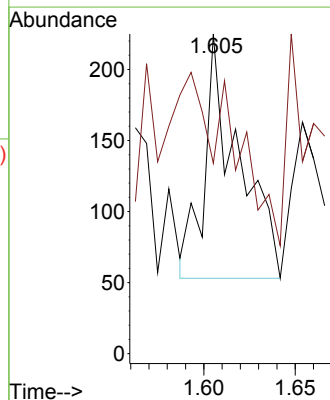
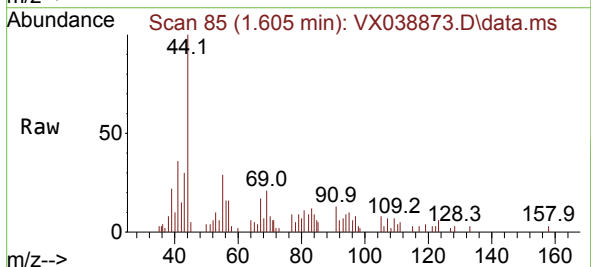
Instrument :
MSVOA_X
ClientSampleId :
FSND-GEP-2-20231107DL

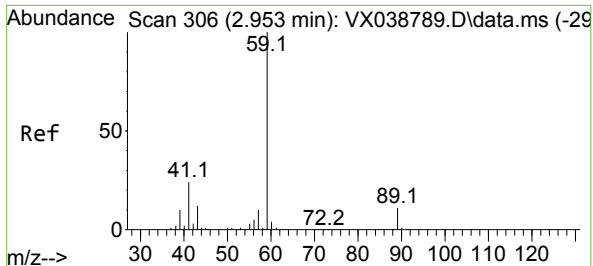
Tgt Ion:168 Resp: 126922
Ion Ratio Lower Upper
168 100
99 61.0 56.6 85.0



#5
Bromomethane
Concen: 0.288 ug/l
RT: 1.605 min Scan# 85
Delta R.T. 0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion: 94 Resp: 222
Ion Ratio Lower Upper
94 100
96 33.7 74.6 111.8#

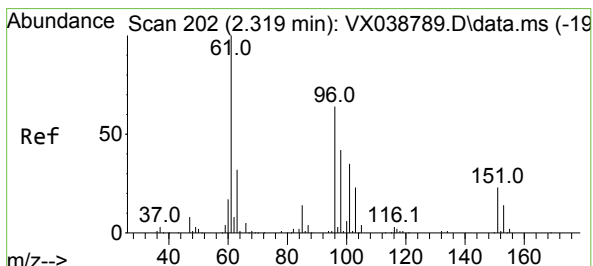
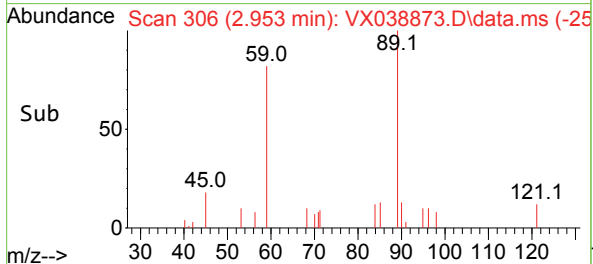
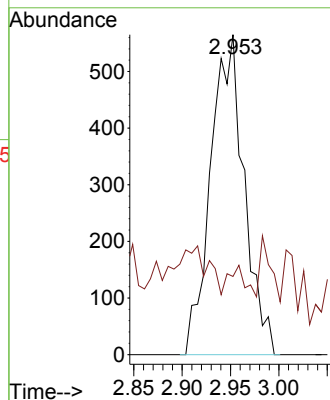
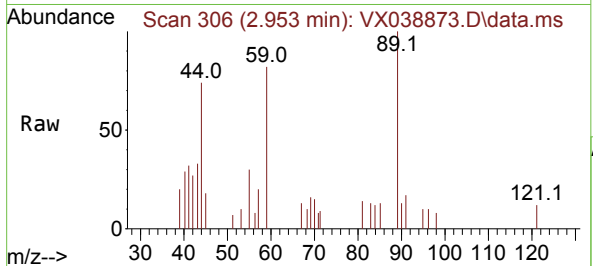




#11
Tert butyl alcohol
Concen: 2.387 ug/l
RT: 2.953 min Scan# 306
Delta R.T. -0.000 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

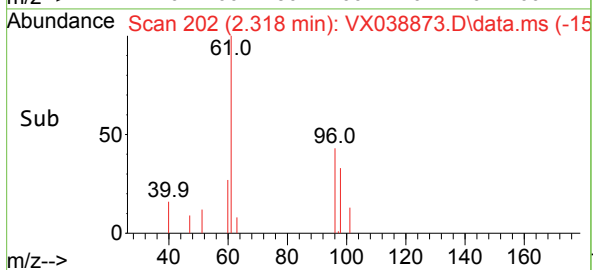
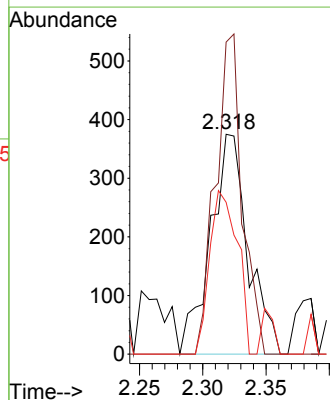
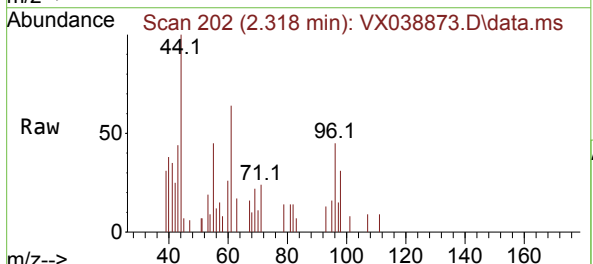
Instrument :
MSVOA_X
ClientSampleId :
FSND-GEP-2-20231107DL

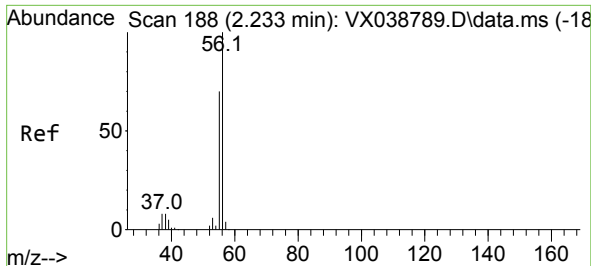
Tgt Ion: 59 Resp: 1358
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



#12
1,1-Dichloroethene
Concen: 0.489 ug/l
RT: 2.318 min Scan# 202
Delta R.T. -0.000 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion: 96 Resp: 773
Ion Ratio Lower Upper
96 100
61 141.9 144.6 216.8#
98 69.1 50.4 75.6





#13

Acrolein

Concen: 0.831 ug/l

RT: 2.215 min Scan# 11

Delta R.T. -0.018 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

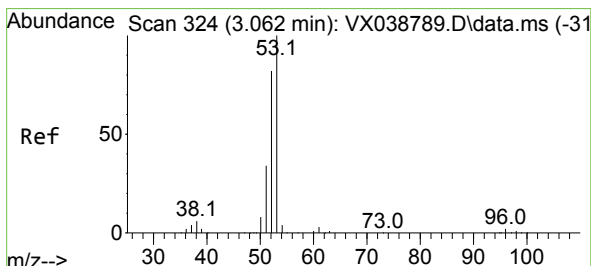
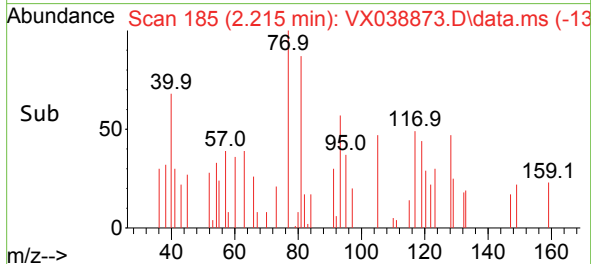
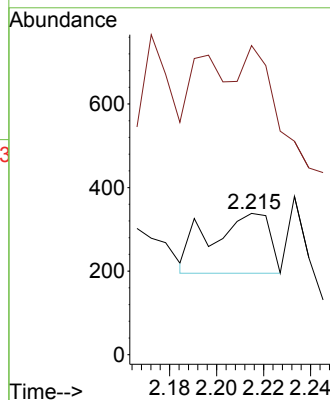
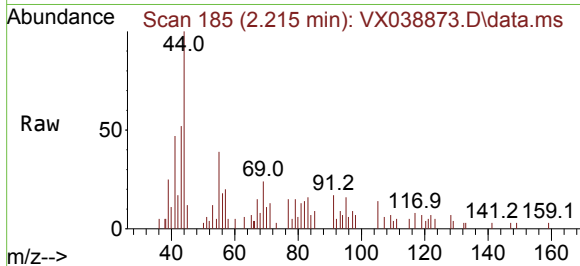
FSND-GEP-2-20231107DL

Tgt Ion: 56 Resp: 250

Ion Ratio Lower Upper

56 100

55 60.0 57.1 85.7



#15

Acrylonitrile

Concen: 0.538 ug/l

RT: 3.068 min Scan# 325

Delta R.T. 0.006 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

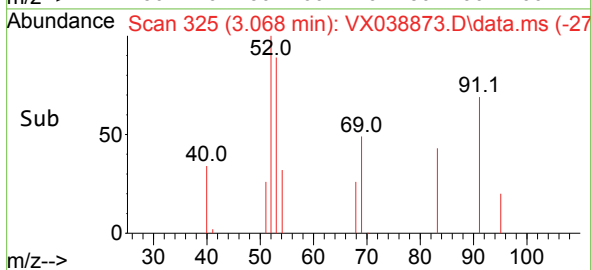
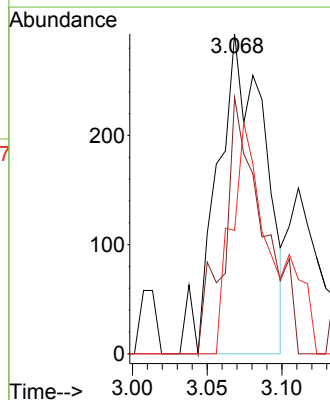
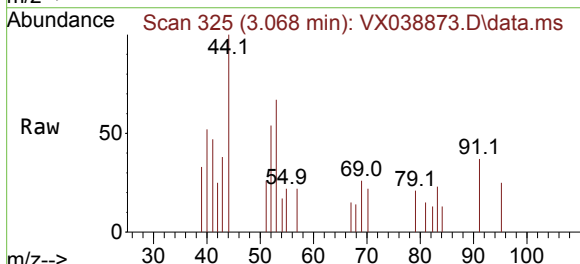
Tgt Ion: 53 Resp: 647

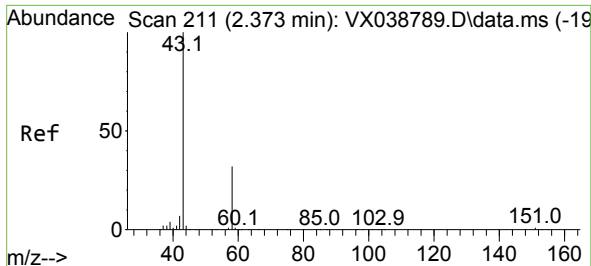
Ion Ratio Lower Upper

53 100

52 66.5 66.0 99.0

51 62.8 29.8 44.6#





#16

Acetone

Concen: 0.680 ug/l

RT: 2.386 min Scan# 211

Delta R.T. 0.012 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

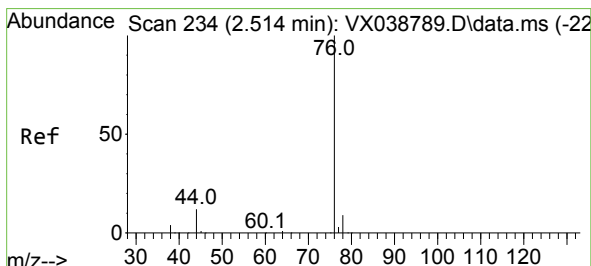
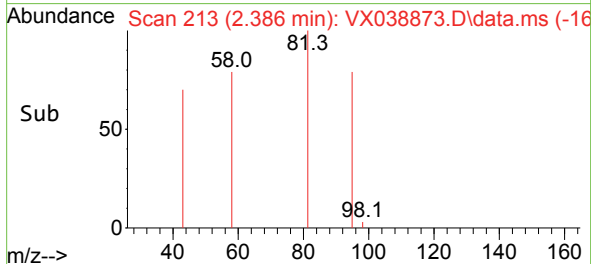
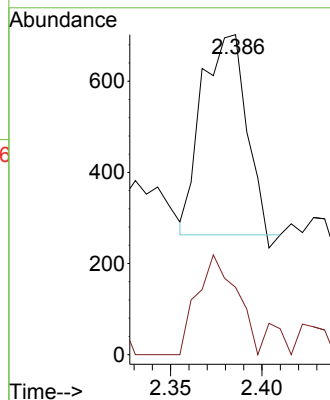
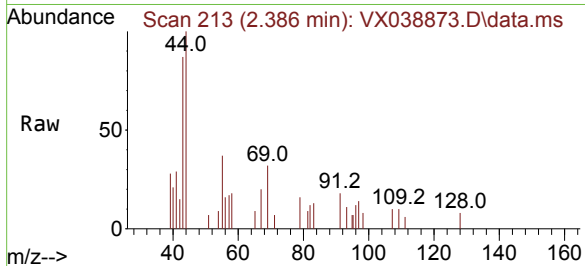
FSND-GEP-2-20231107DL

Tgt Ion: 43 Resp: 740

Ion Ratio Lower Upper

43 100

58 33.7 21.9 32.9#



#17

Carbon Disulfide

Concen: 0.346 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.000 min

Lab File: VX038873.D

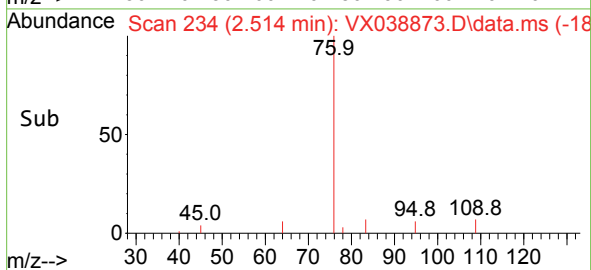
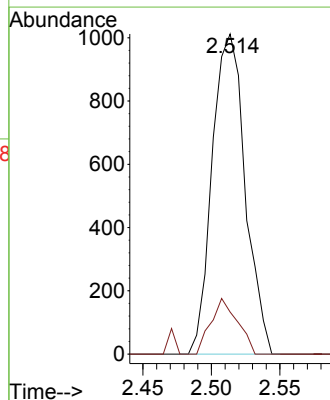
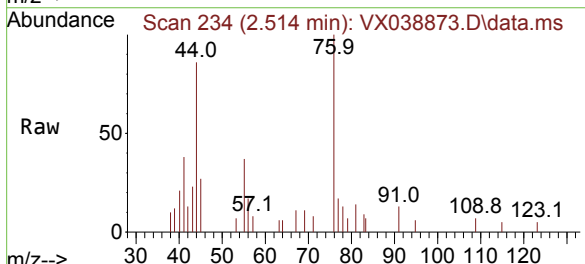
Acq: 17 Nov 2023 12:24

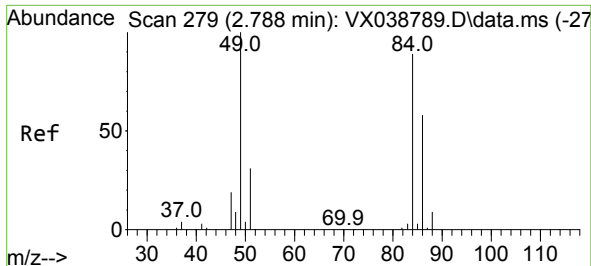
Tgt Ion: 76 Resp: 1696

Ion Ratio Lower Upper

76 100

78 13.1 7.0 10.6#

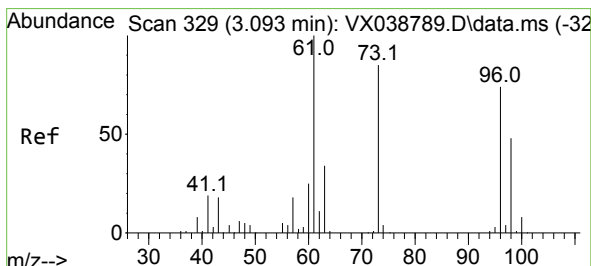
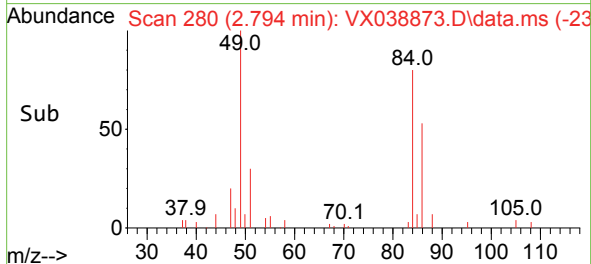
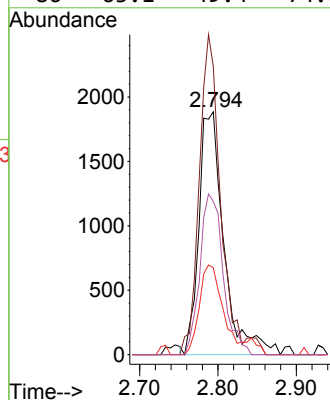
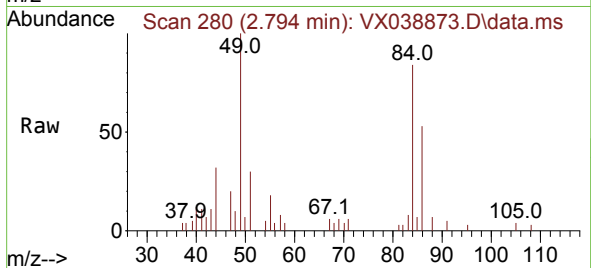




#20
Methylene Chloride
Concen: 2.128 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

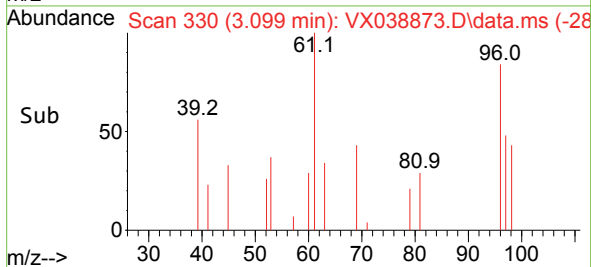
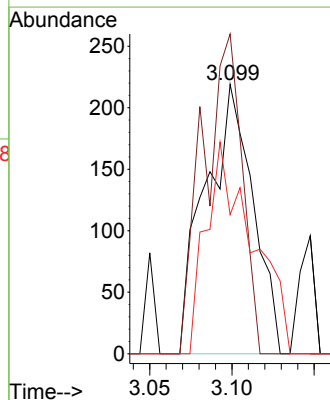
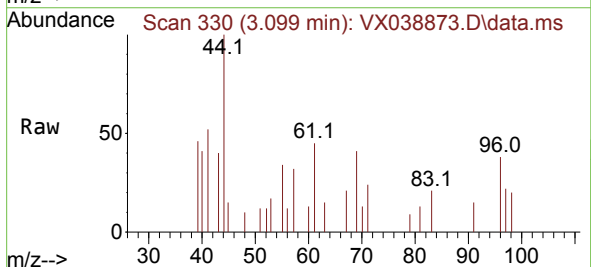
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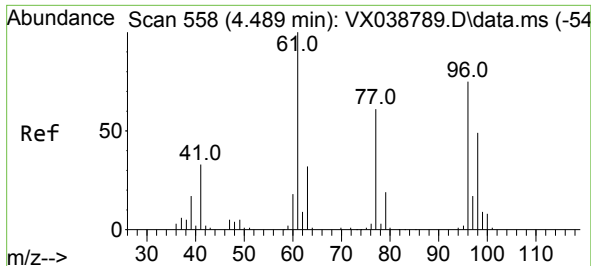
Tgt Ion:	84	Resp:	4176
Ion	Ratio	Lower	Upper
84	100		
49	118.7	103.6	155.4
51	35.8	33.8	50.6
86	63.1	49.4	74.0



#21
trans-1,2-Dichloroethene
Concen: 0.252 ug/l
RT: 3.099 min Scan# 330
Delta R.T. 0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion:	96	Resp:	439
Ion	Ratio	Lower	Upper
96	100		
61	118.7	119.2	178.8#
98	51.6	48.7	73.1





#27

cis-1,2-Dichloroethene

Concen: 0.215 ug/l

RT: 4.489 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

FSND-GEP-2-20231107DL

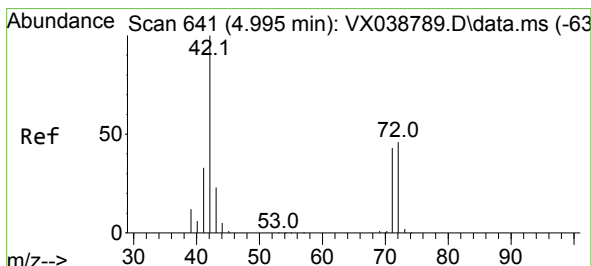
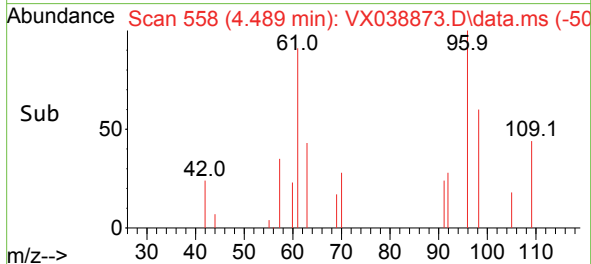
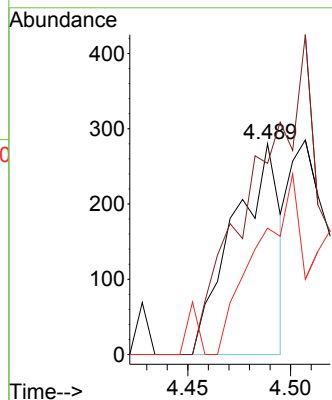
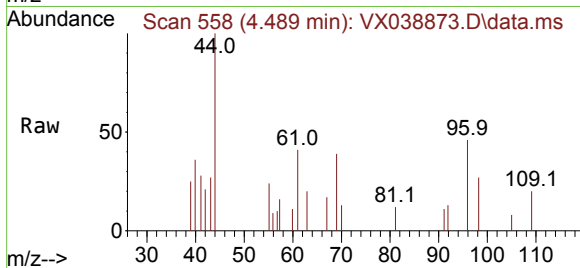
Tgt Ion: 96 Resp: 438

Ion Ratio Lower Upper

96 100

61 243.6 0.0 312.2

98 123.3 0.0 129.0



#29

Tetrahydrofuran

Concen: 0.268 ug/l

RT: 4.995 min Scan# 641

Delta R.T. -0.000 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

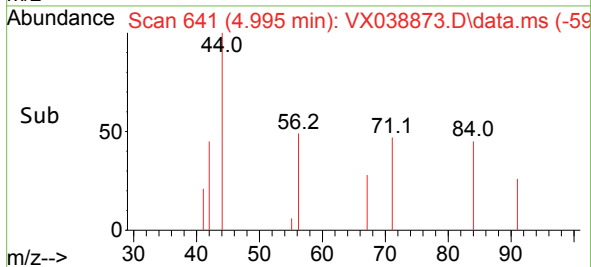
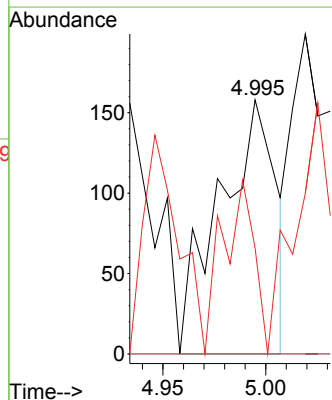
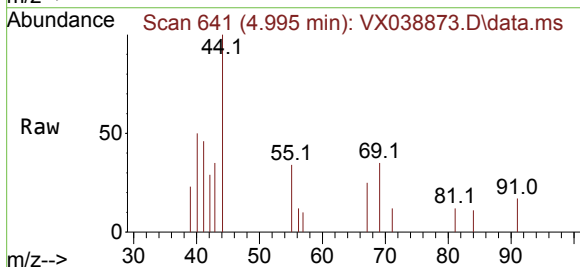
Tgt Ion: 42 Resp: 300

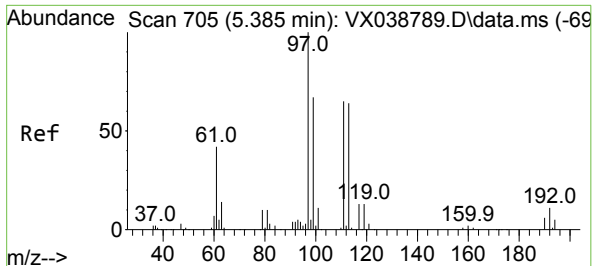
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.4#

71 38.7 32.2 48.2

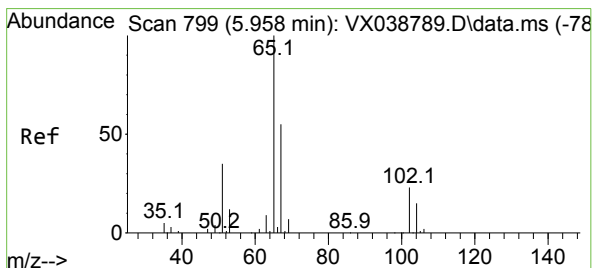
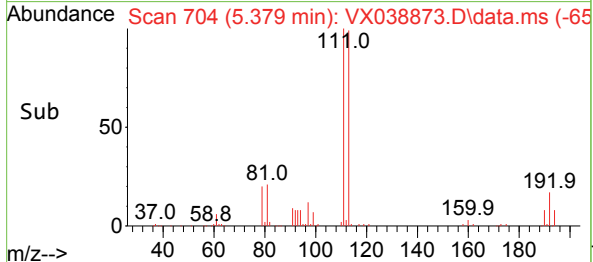
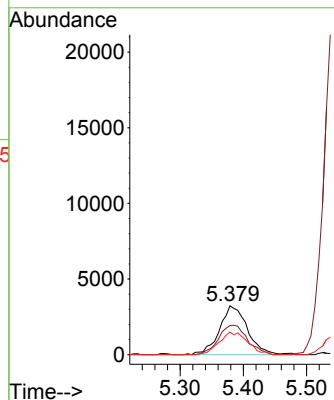
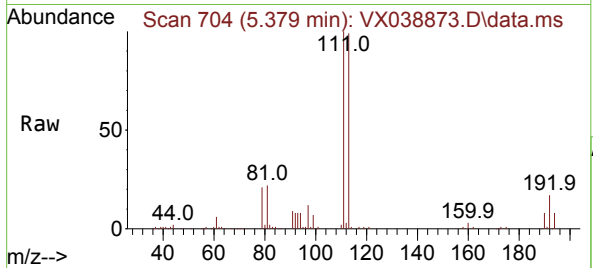




#32
1,1,1-Trichloroethane
Concen: 3.587 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

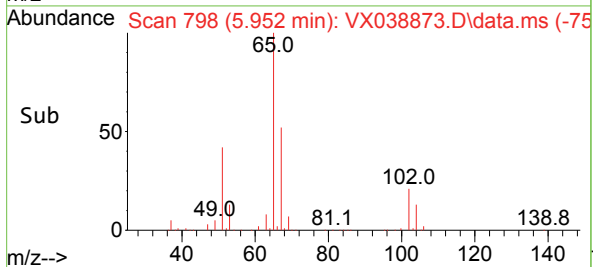
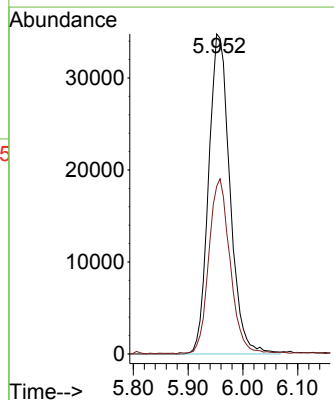
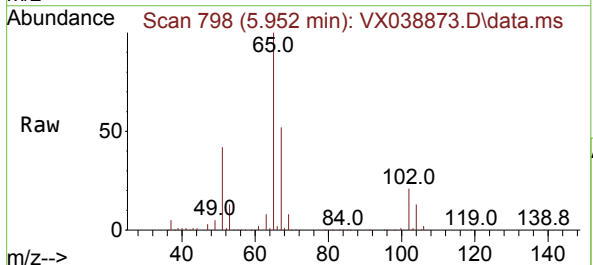
Instrument :
MSVOA_X
ClientSampleId :
FSND-GEP-2-20231107DL

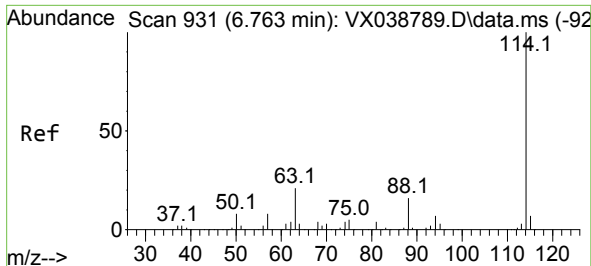
Tgt Ion: 97 Resp: 9857
Ion Ratio Lower Upper
97 100
99 62.5 51.1 76.7
61 47.4 36.4 54.6



#33
1,2-Dichloroethane-d4
Concen: 45.780 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion: 65 Resp: 93628
Ion Ratio Lower Upper
65 100
67 54.8 0.0 100.2

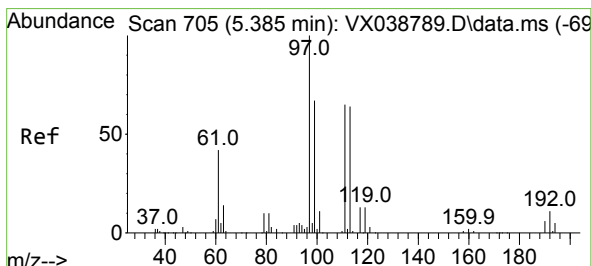
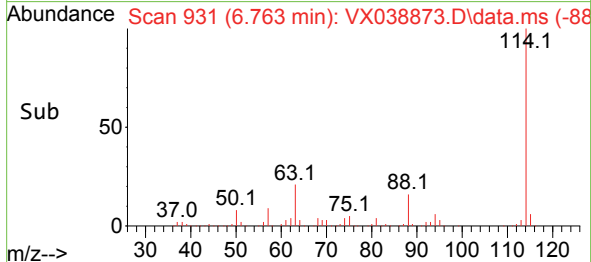
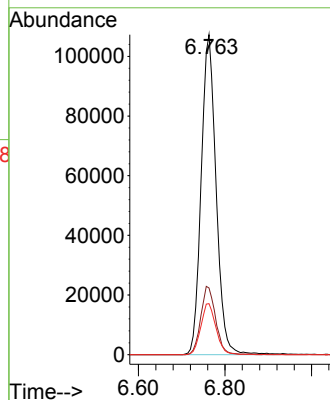
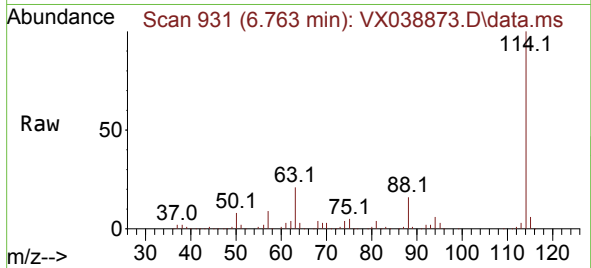




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

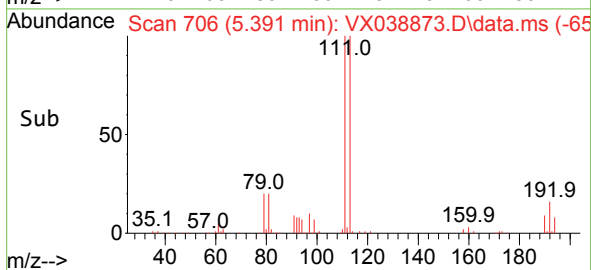
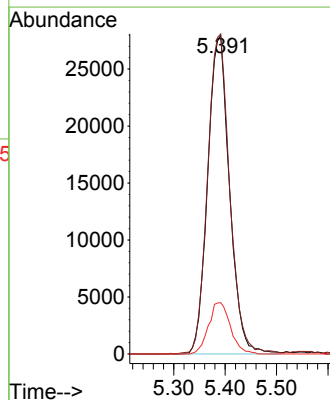
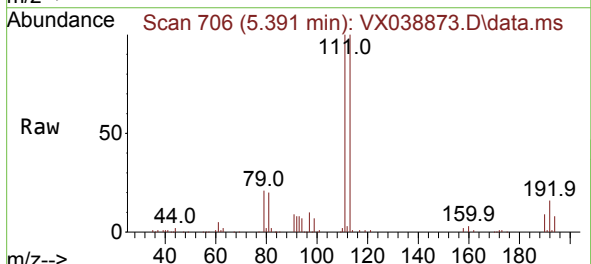
Instrument :
MSVOA_X
ClientSampleId :
FSND-GEP-2-20231107DL

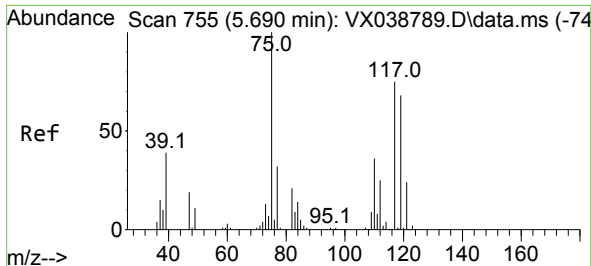
Tgt Ion:114 Resp: 256606
Ion Ratio Lower Upper
114 100
63 20.9 0.0 45.0
88 16.0 0.0 36.6



#35
Dibromofluoromethane
Concen: 44.465 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion:113 Resp: 82406
Ion Ratio Lower Upper
113 100
111 102.2 82.9 124.3
192 16.2 13.3 19.9

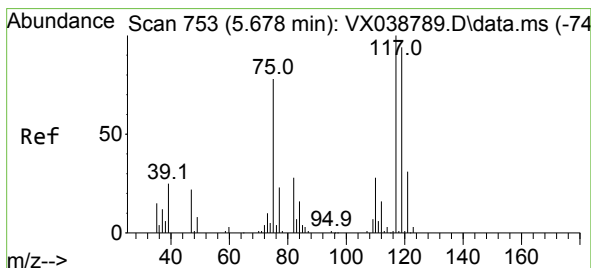
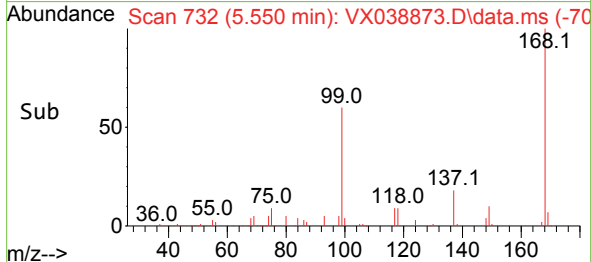
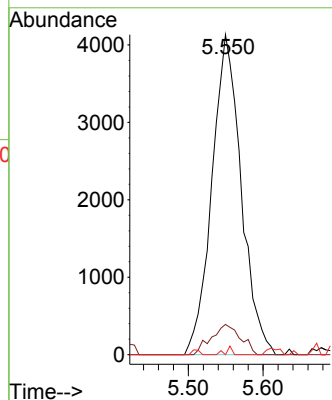
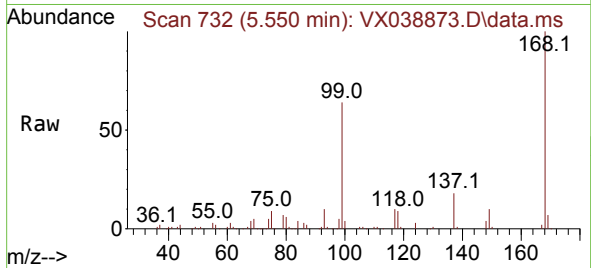




#36
1,1-Dichloropropene
Concen: 4.231 ug/l
RT: 5.550 min Scan# 711
Delta R.T. -0.140 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

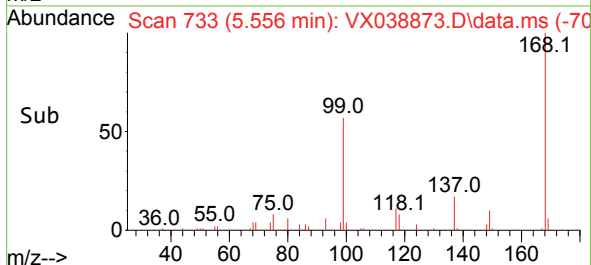
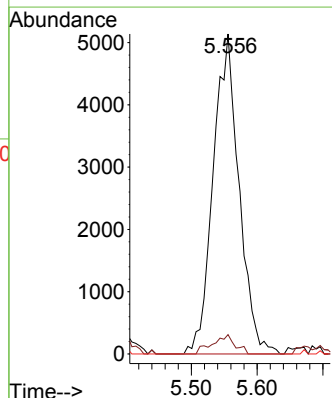
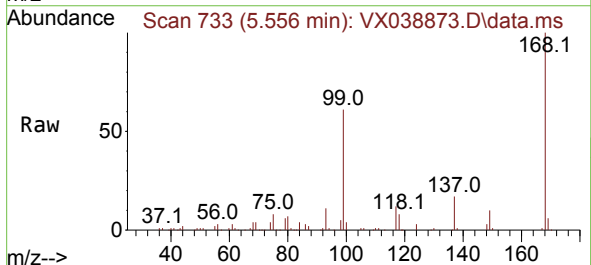
Instrument :
MSVOA_X
ClientSampleId :
FSND-GEP-2-20231107DL

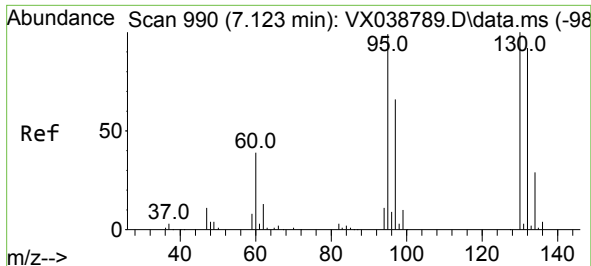
Tgt Ion: 75 Resp: 11237
Ion Ratio Lower Upper
75 100
110 9.5 17.0 50.9#
77 0.5 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.727 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.122 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion: 117 Resp: 14060
Ion Ratio Lower Upper
117 100
119 6.1 78.2 117.2#
121 0.0 24.4 36.6#

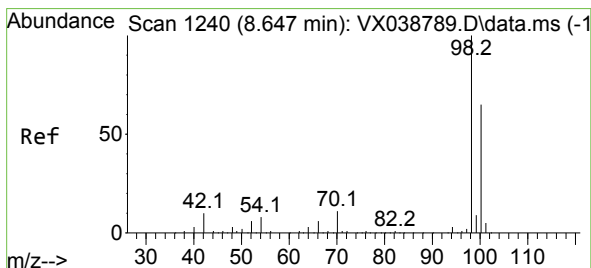
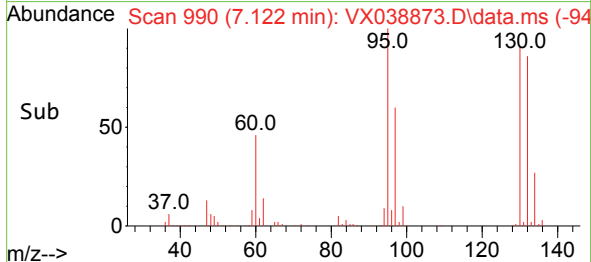
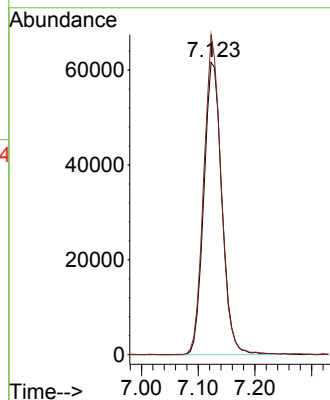
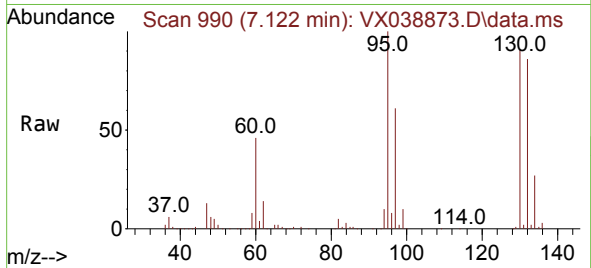




#44
Trichloroethene
Concen: 71.321 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

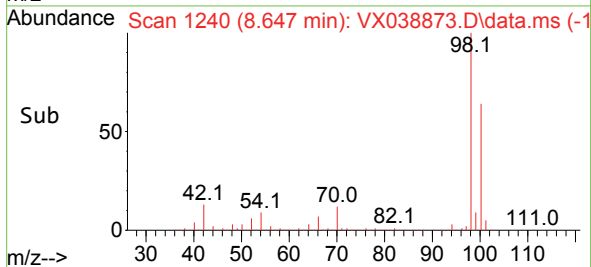
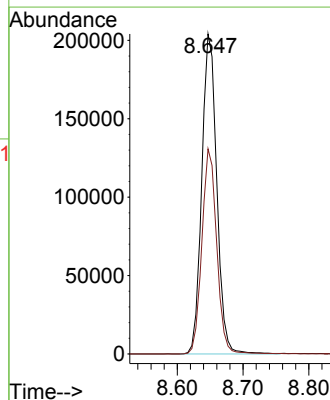
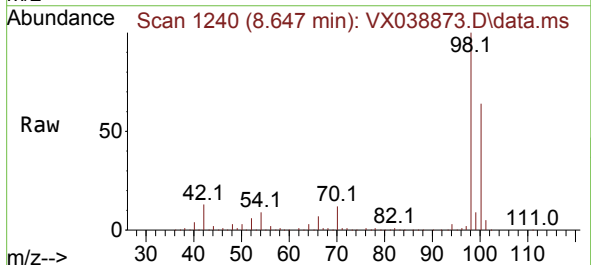
Instrument :
MSVOA_X
ClientSampleId :
FSND-GEP-2-20231107DL

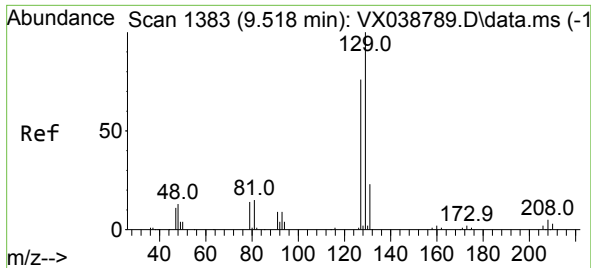
Tgt Ion:130 Resp: 136383
Ion Ratio Lower Upper
130 100
95 109.3 0.0 204.4



#50
Toluene-d8
Concen: 45.501 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion: 98 Resp: 322636
Ion Ratio Lower Upper
98 100
100 63.6 53.1 79.7

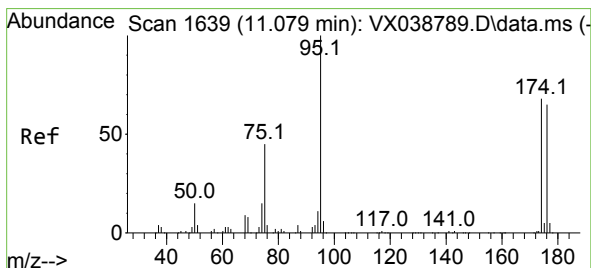
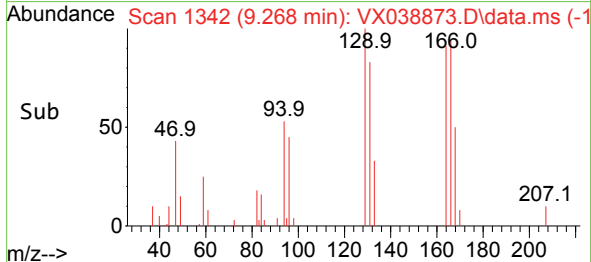
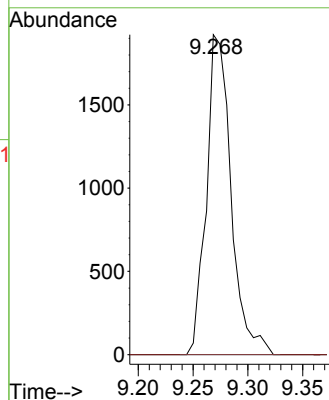
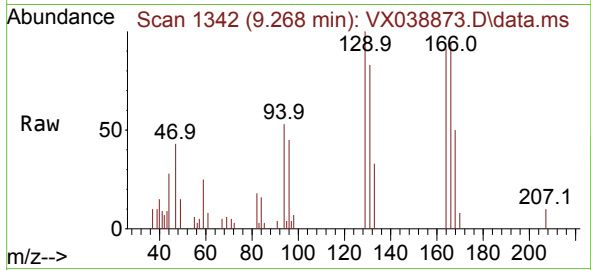




#60
 Dibromochloromethane
 Concen: 1.457 ug/l
 RT: 9.268 min Scan# 11
 Delta R.T. -0.250 min
 Lab File: VX038873.D
 Acq: 17 Nov 2023 12:24

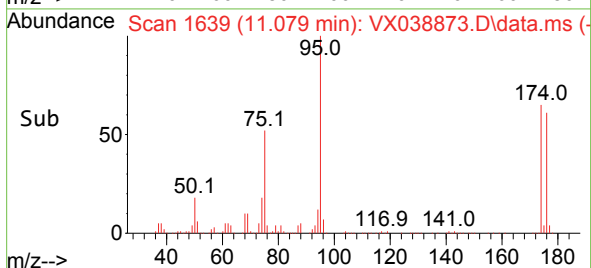
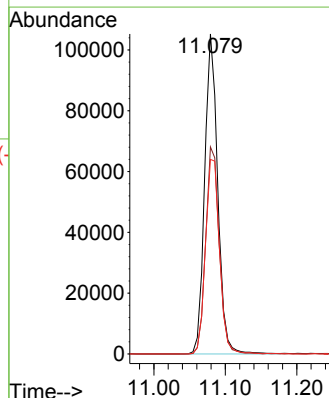
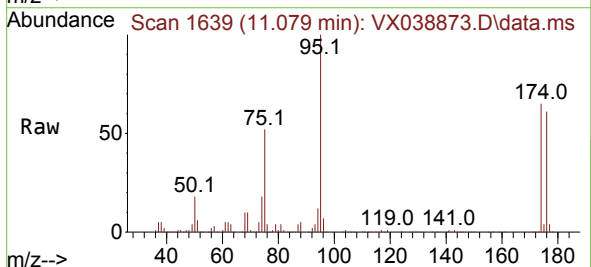
Instrument :
 MSVOA_X
 ClientSampleId :
 FSND-GEP-2-20231107DL

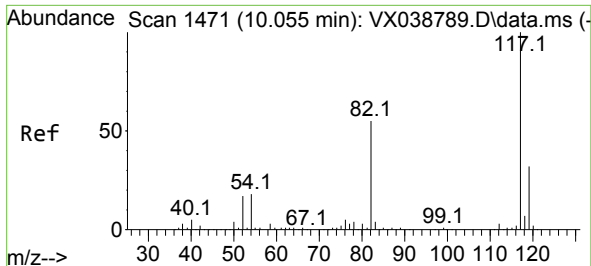
Tgt Ion:129 Resp: 3013
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.8 116.4#



#62
 4-Bromofluorobenzene
 Concen: 47.077 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.000 min
 Lab File: VX038873.D
 Acq: 17 Nov 2023 12:24

Tgt Ion: 95 Resp: 133626
 Ion Ratio Lower Upper
 95 100
 174 67.3 0.0 135.6
 176 65.6 0.0 131.0

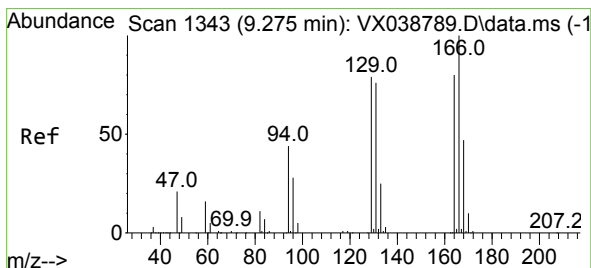
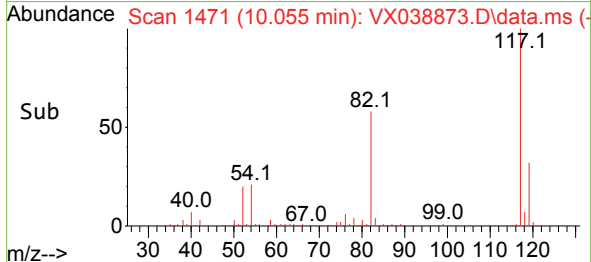
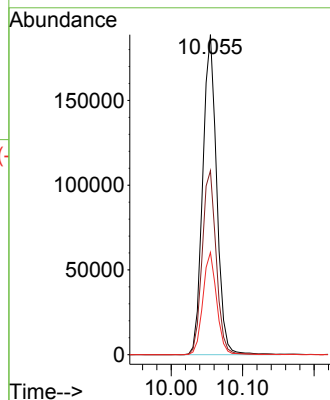
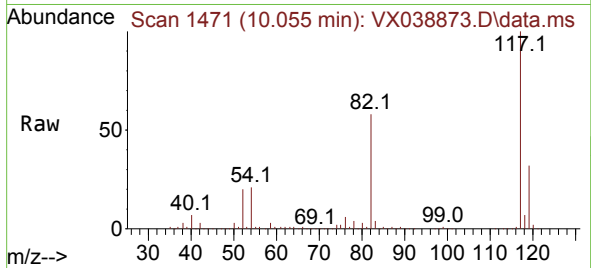




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

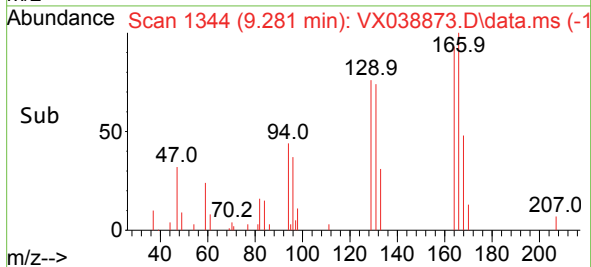
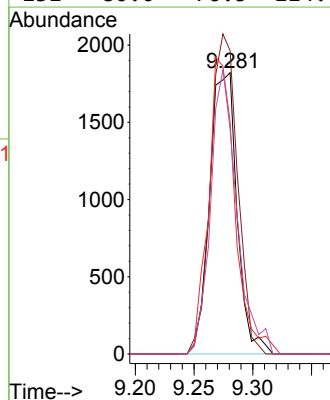
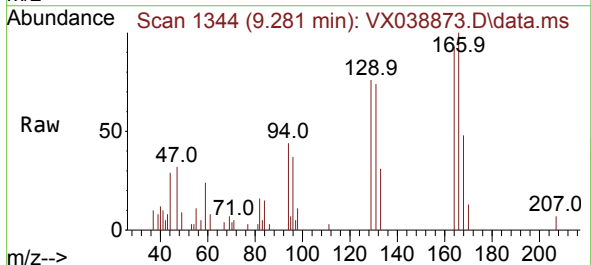
Instrument : MSVOA_X
ClientSampleId : FSND-GEP-2-20231107DL

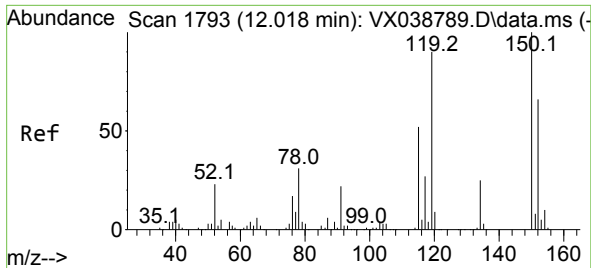
Tgt Ion:117	Resp:	255446	
Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.2	69.4
119	32.0	25.5	38.3



#64
Tetrachloroethene
Concen: 1.858 ug/l
RT: 9.281 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

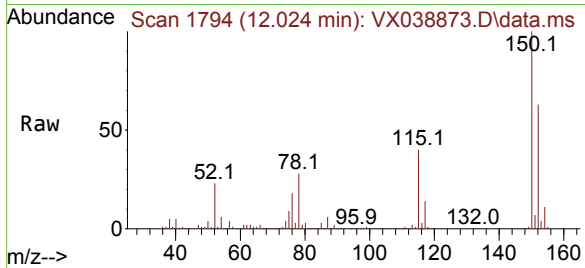
Tgt	Ion:164	Resp:	2950
Ion	Ratio	Lower	Upper
164	100		
166	107.8	102.7	154.1
129	82.4	80.4	120.6
131	80.0	76.5	114.7



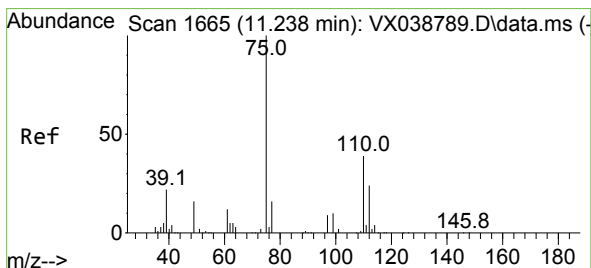
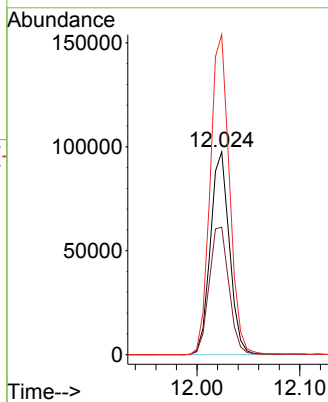
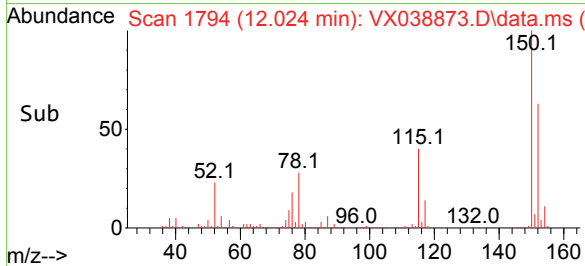


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX038873.D
 Acq: 17 Nov 2023 12:24

Instrument :
 MSVOA_X
 ClientSampleId :
 FSND-GEP-2-20231107DL

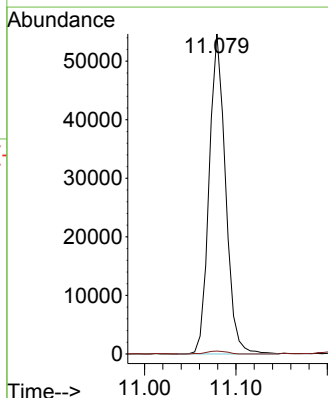
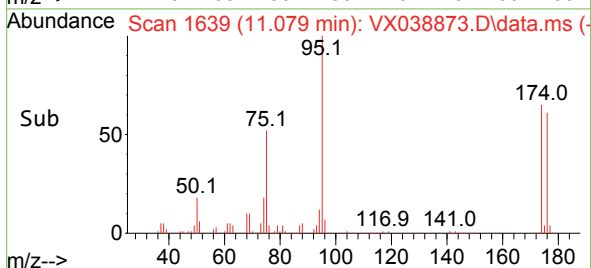
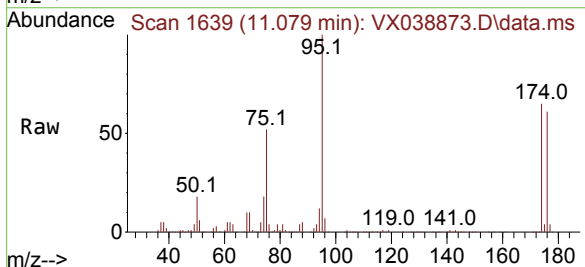


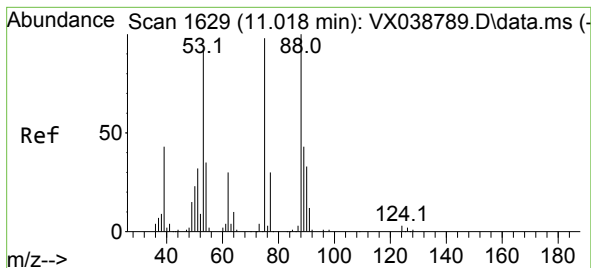
Tgt Ion:152 Resp: 125302
 Ion Ratio Lower Upper
 152 100
 115 65.6 43.3 129.9
 150 159.6 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 21.703 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX038873.D
 Acq: 17 Nov 2023 12:24

Tgt Ion: 75 Resp: 67849
 Ion Ratio Lower Upper
 75 100
 77 1.2 19.1 57.5#

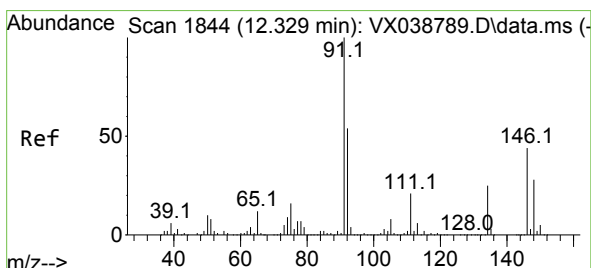
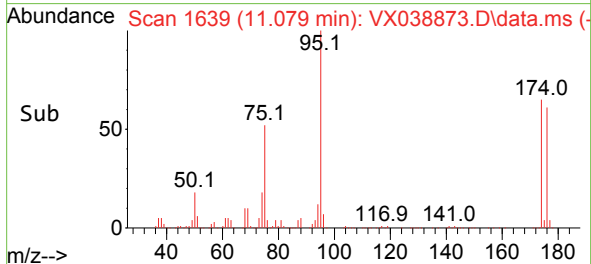
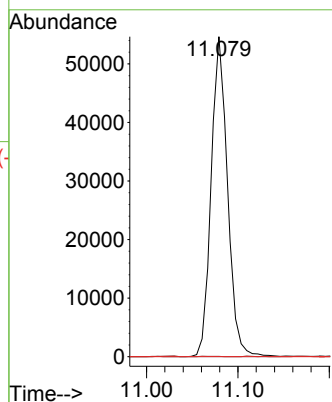
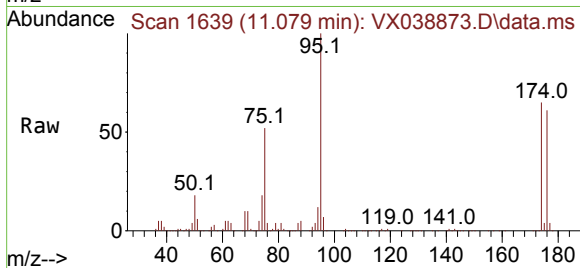




#81
trans-1,4-Dichloro-2-butene
Concen: 48.139 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

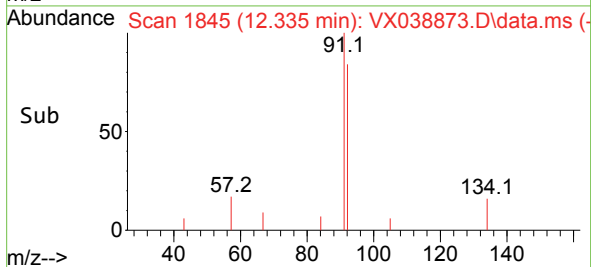
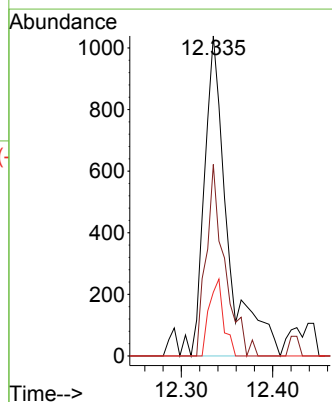
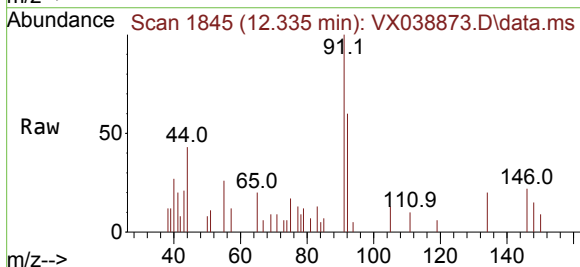
Instrument :
MSVOA_X
ClientSampleId :
FSND-GEP-2-20231107DL

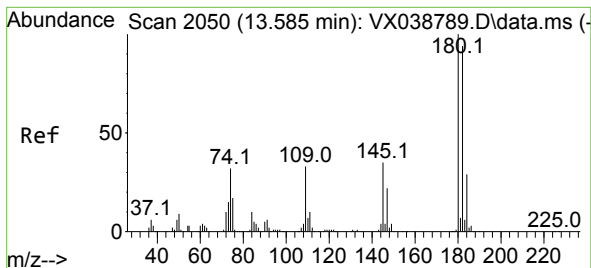
Tgt Ion: 75 Resp: 67849
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 36.9 55.3#



#89
n-Butylbenzene
Concen: 0.215 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX038873.D
Acq: 17 Nov 2023 12:24

Tgt Ion: 91 Resp: 1840
Ion Ratio Lower Upper
91 100
92 47.1 27.4 82.0
134 14.8 12.6 37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.295 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

FSND-GEP-2-20231107DL

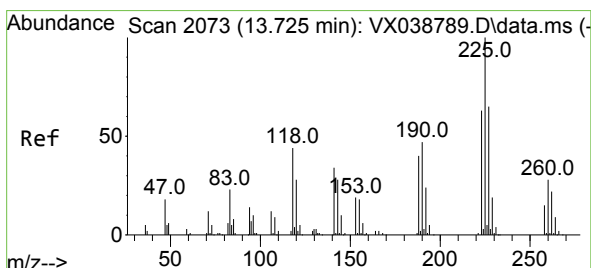
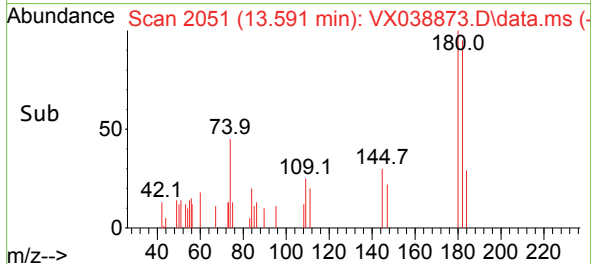
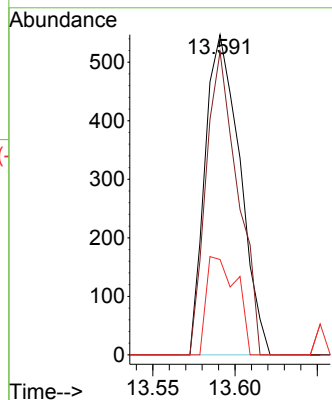
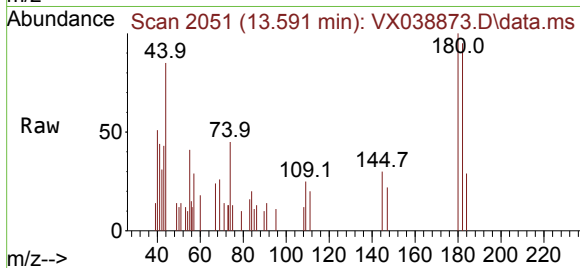
Tgt Ion:180 Resp: 805

Ion Ratio Lower Upper

180 100

182 86.0 48.3 144.8

145 26.5 18.0 54.0



#94

Hexachlorobutadiene

Concen: 0.390 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

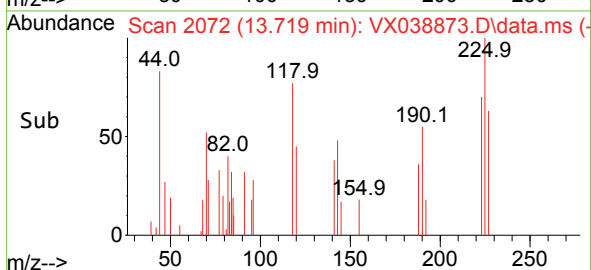
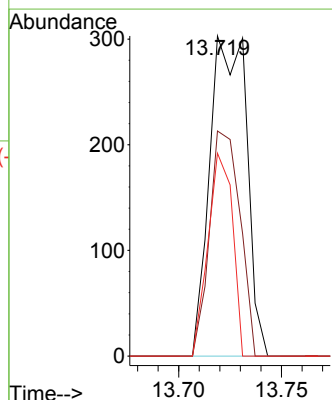
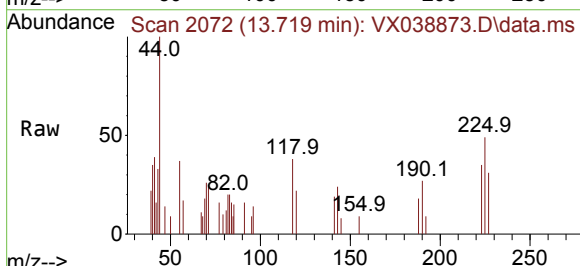
Tgt Ion:225 Resp: 377

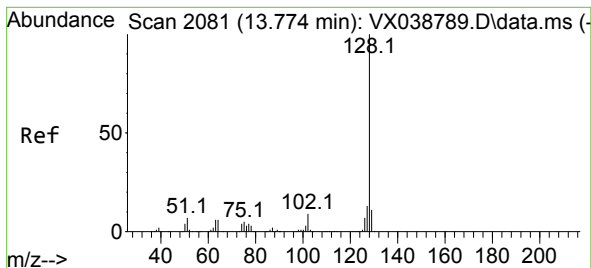
Ion Ratio Lower Upper

225 100

223 58.4 31.1 93.2

227 42.2 32.5 97.5





#95

Naphthalene

Concen: 0.287 ug/l

RT: 13.786 min Scan# 2083

Delta R.T. 0.012 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

Instrument :

MSVOA_X

ClientSampleId :

FSND-GEP-2-20231107DL

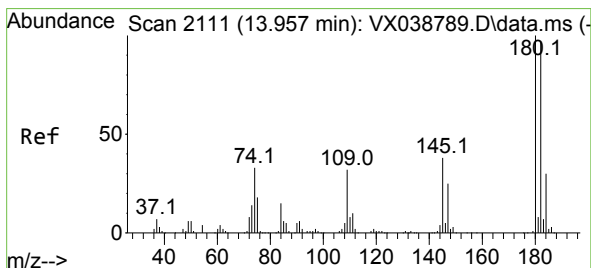
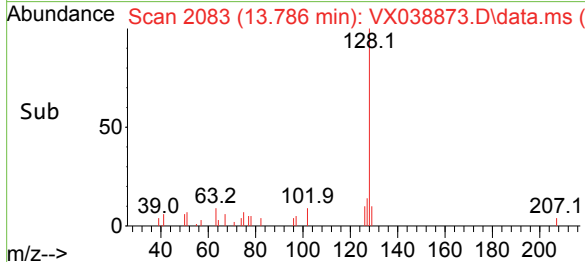
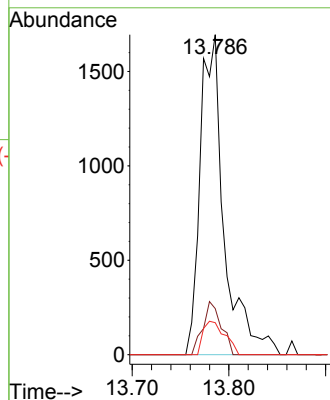
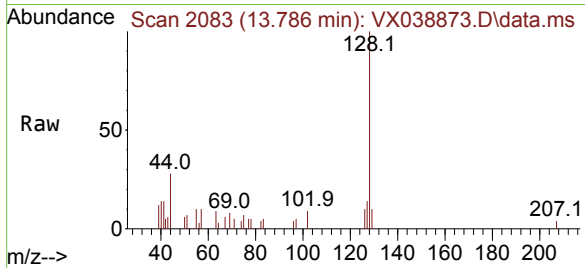
Tgt Ion:128 Resp: 2918

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

129 9.5 8.8 13.2



#96

1,2,3-Trichlorobenzene

Concen: 0.265 ug/l

RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX038873.D

Acq: 17 Nov 2023 12:24

Tgt Ion:180 Resp: 685

Ion Ratio Lower Upper

180 100

182 98.8 46.9 140.6

145 27.3 17.8 53.5

