

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX021022\
 Data File : VX026919.D
 Acq On : 10 Feb 2022 14:43
 Operator : JC/MD
 Sample : N1433-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 6NINF-0222

Quant Time: Feb 11 03:41:20 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

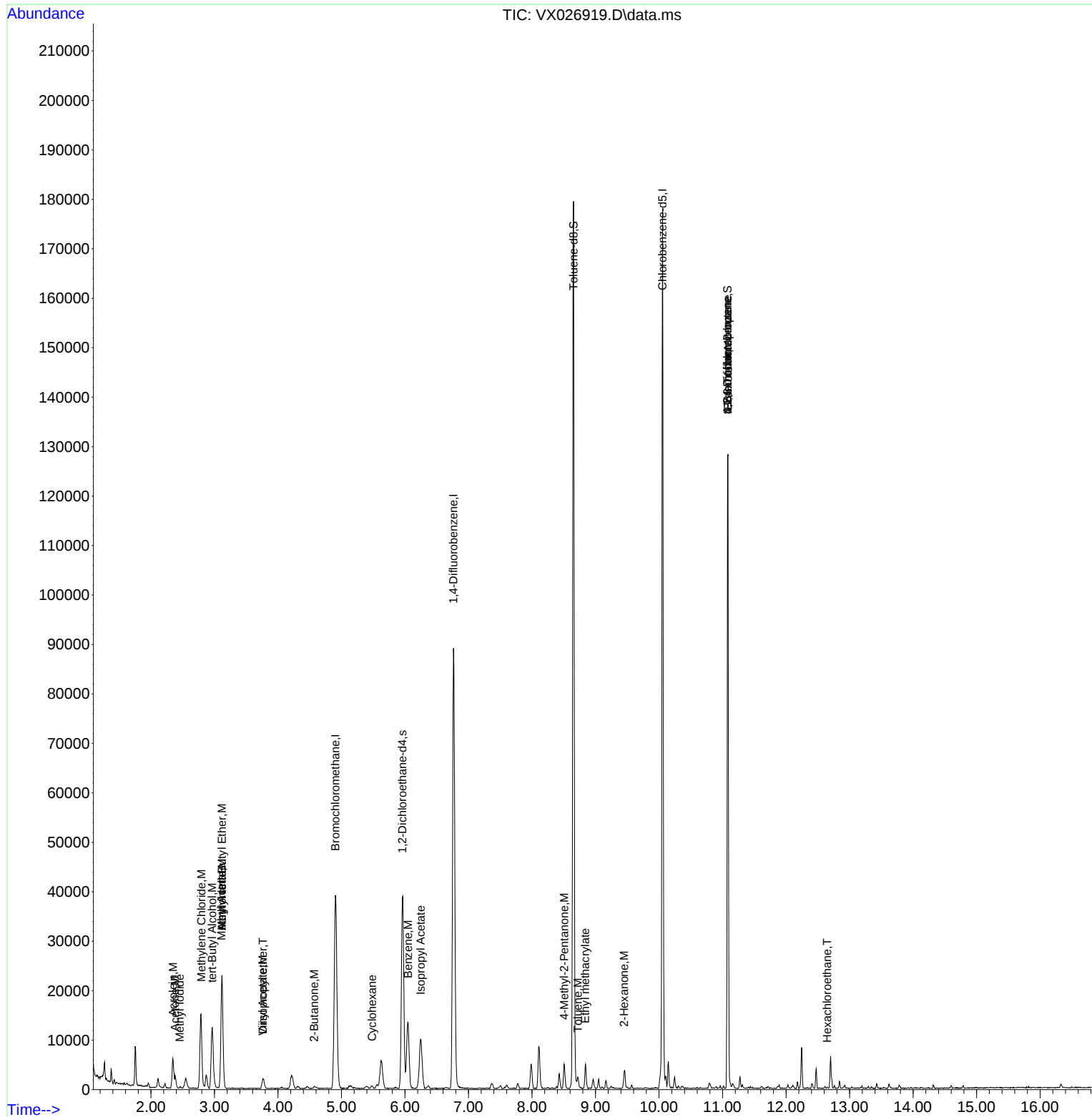
Internal Standards						
1) Bromochloromethane	4.904	128	16850	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	92928	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	80191	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	38638	28.517	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	95.067%
60) 4-Bromofluorobenzene	11.079	95	36483	27.260	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	90.867%
63) Toluene-d8	8.653	98	108543	29.464	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.200%
Target Compounds						
					Qvalue	
11) Methyl Iodide	2.453	142	288	0.293	ug/l #	92
12) Methyl Acetate	3.111	43	5376	2.833	ug/l	92
13) Acrolein	2.349	56	831	4.226	ug/l #	62
14) Acrylonitrile	3.117	53	250	0.472	ug/l #	20
15) Acetone	2.380	58	741	4.457	ug/l	95
18) Methylene Chloride	2.794	84	244	0.245	ug/l #	16
20) Diisopropyl ether	3.763	45	2241	0.661	ug/l #	79
23) tert-Butyl Alcohol	2.965	59	15497	80.722	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	23999	7.125	ug/l	98
26) Cyclohexane	5.483	56	481	0.282	ug/l #	52
30) 2-Butanone	4.568	43	598	0.717	ug/l #	88
34) Benzene	6.050	78	16317	4.100	ug/l	97
42) Vinyl Acetate	3.757	43	624	0.242	ug/l #	75
44) Isopropyl Acetate	6.245	43	2936	1.174	ug/l #	57
51) Ethyl methacrylate	8.836	69	765	0.488	ug/l	94
56) Bromoform	11.085	173	294	0.415	ug/l #	1
58) 4-Methyl-2-Pentanone	8.507	43	471	0.315	ug/l #	44
59) 2-Hexanone	9.451	43	475	0.410	ug/l #	1
62) Toluene	8.720	91	1602	0.374	ug/l	89
72) 1,2,3-Trichloropropane	11.079	75	18353	14.339	ug/l	39
77) t-1,4-Dichloro-2-butene	11.079	75	18353	47.678	ug/l #	3
86) Hexachloroethane	12.646	117	163	0.272	ug/l #	13

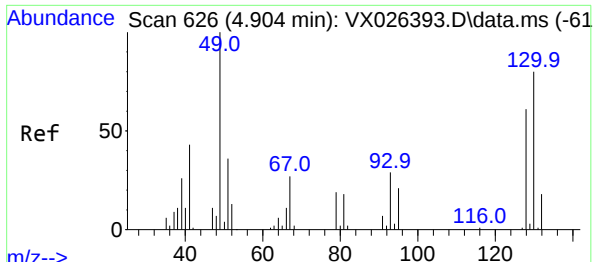
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jan 10 12:50:55 2022
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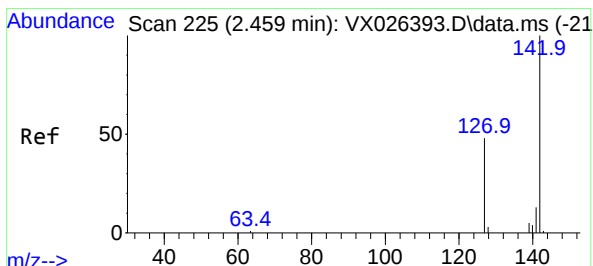
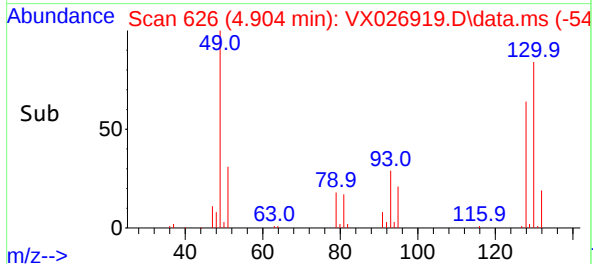
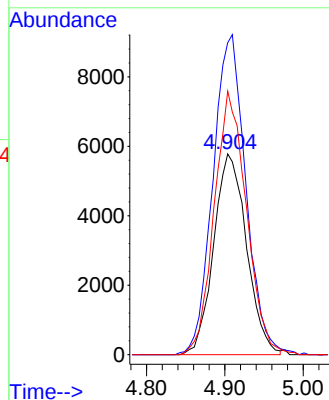
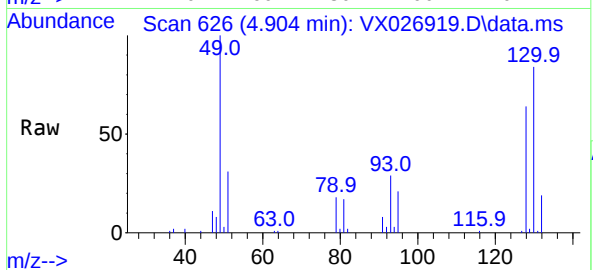




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

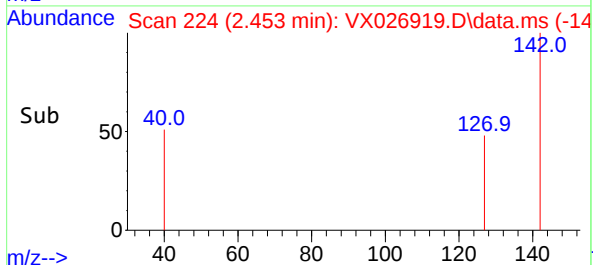
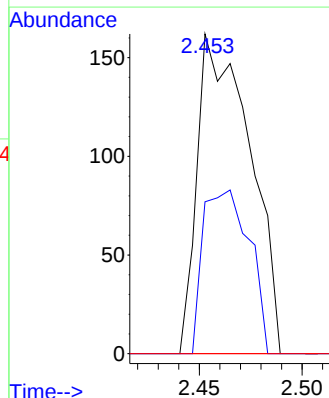
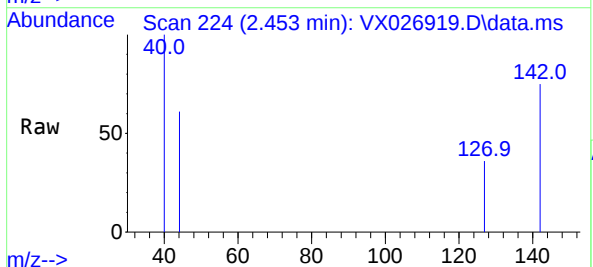
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

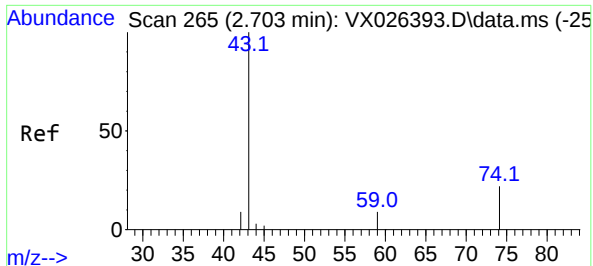
Tgt Ion:	128	Resp:	16850
Ion	Ratio	Lower	Upper
128	100		
49	159.6	0.0	413.5
130	128.9	0.0	326.0



#11
Methyl Iodide
Concen: 0.293 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion:	142	Resp:	288
Ion	Ratio	Lower	Upper
142	100		
127	47.5	23.9	71.7
141	0.0	6.7	20.1#

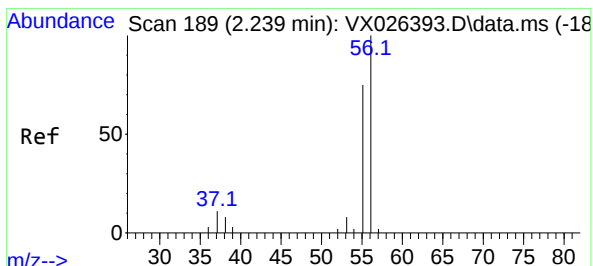
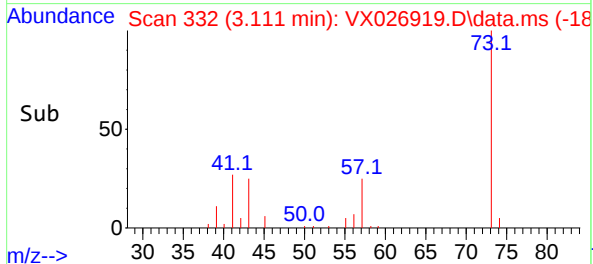
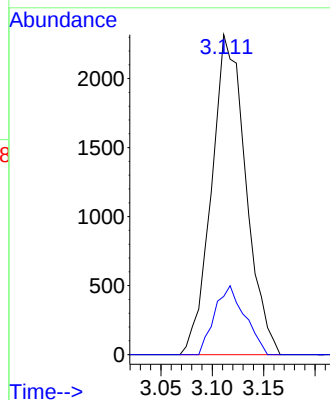
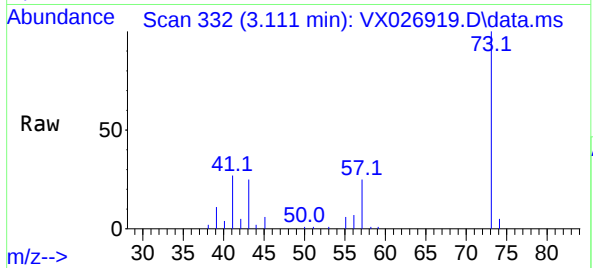




#12
Methyl Acetate
Concen: 2.833 ug/l
RT: 3.111 min Scan# 31
Delta R.T. 0.408 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

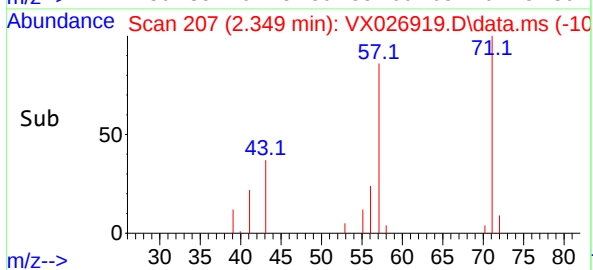
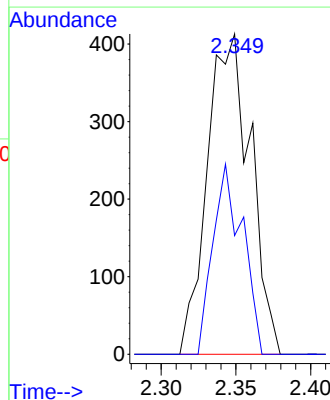
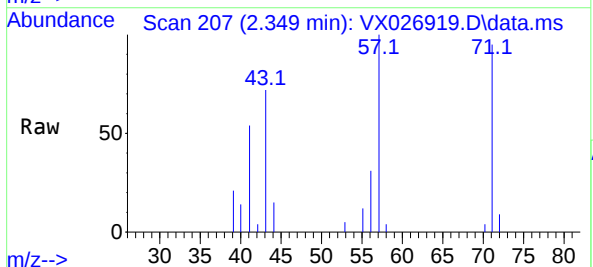
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

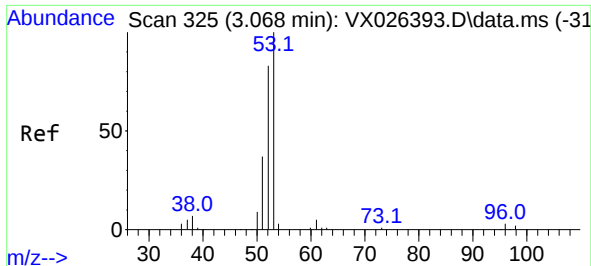
Tgt Ion: 43 Resp: 5376
Ion Ratio Lower Upper
43 100
74 18.2 17.8 26.6



#13
Acrolein
Concen: 4.226 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.110 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 56 Resp: 831
Ion Ratio Lower Upper
56 100
55 40.7 58.2 87.2#

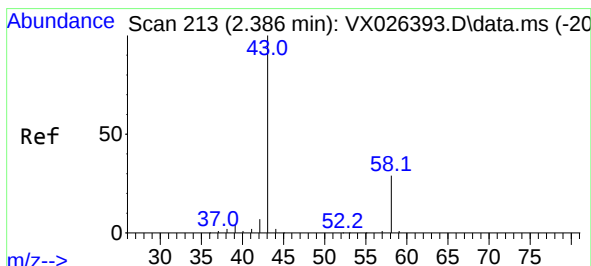
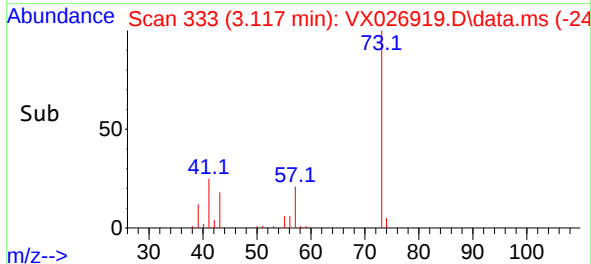
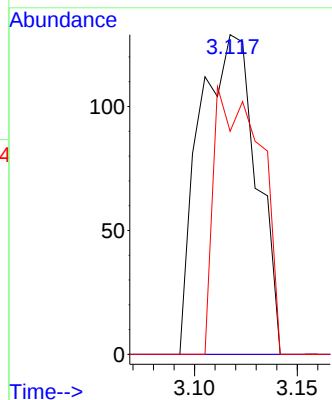
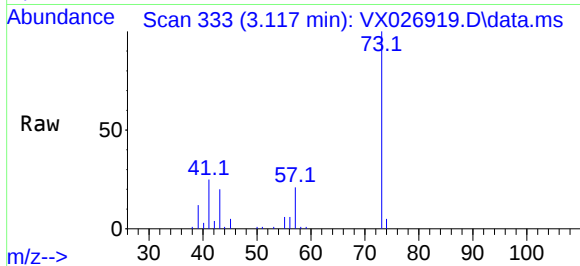




#14
Acrylonitrile
Concen: 0.472 ug/l
RT: 3.117 min Scan# 31
Delta R.T. 0.049 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

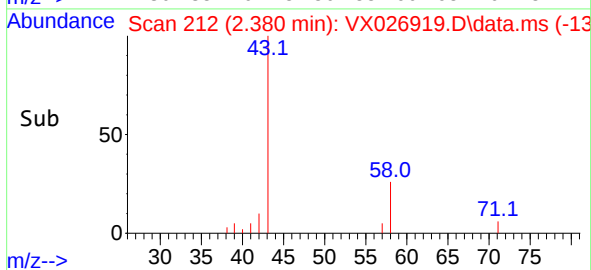
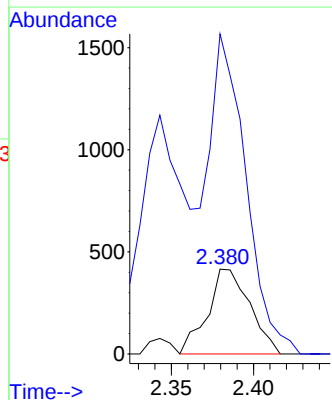
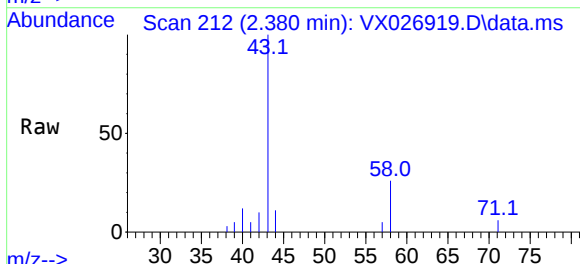
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

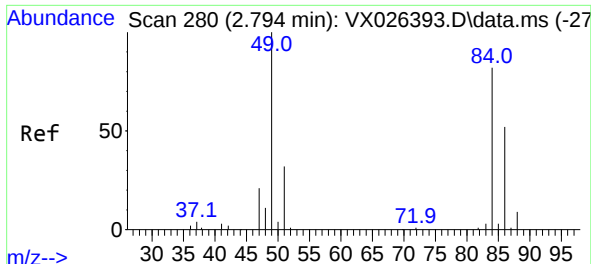
Tgt Ion: 53 Resp: 250
Ion Ratio Lower Upper
53 100
52 0.0 41.4 124.4#
51 68.4 18.6 56.0#



#15
Acetone
Concen: 4.457 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 58 Resp: 741
Ion Ratio Lower Upper
58 100
43 355.2 276.3 414.5

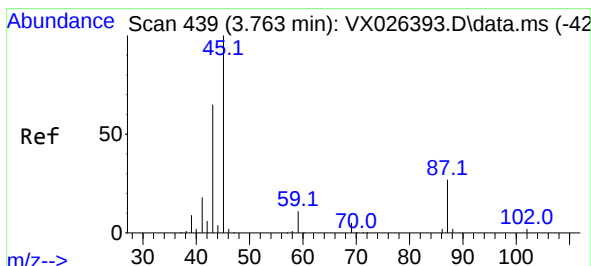
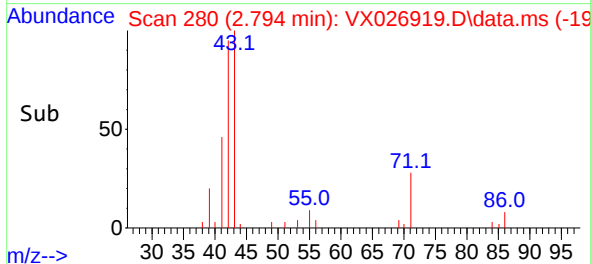
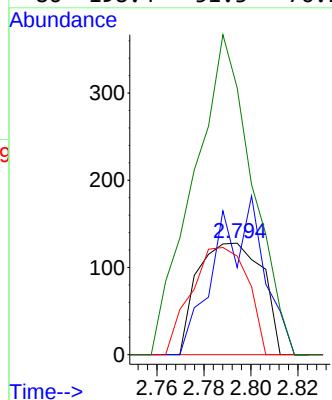
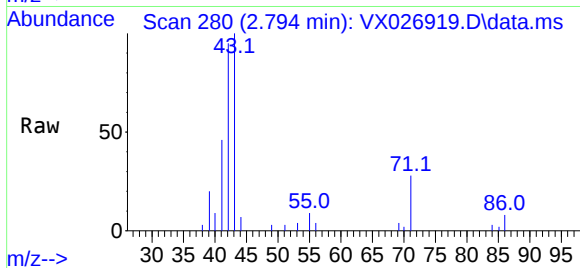




#18
Methylene Chloride
Concen: 0.245 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

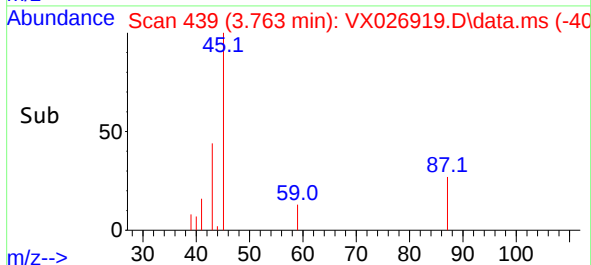
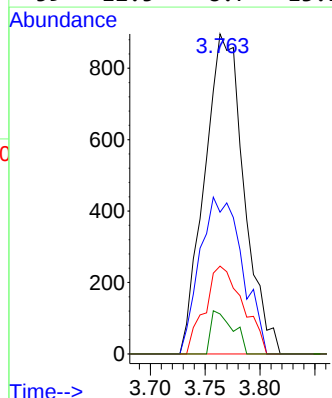
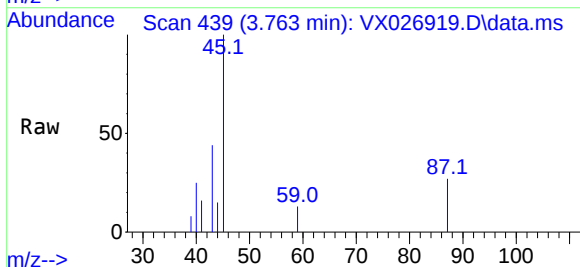
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

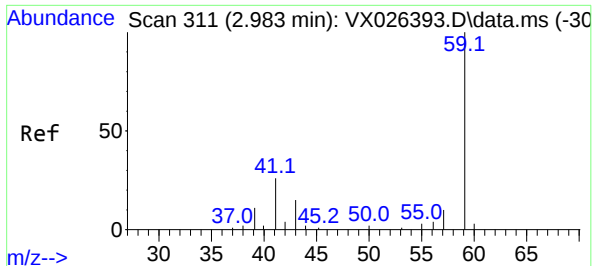
Tgt Ion:	84	Resp:	244
Ion	Ratio	Lower	Upper
84	100		
49	78.1	97.8	146.8#
51	88.3	31.1	46.7#
86	198.4	51.3	76.9#



#20
Diisopropyl ether
Concen: 0.661 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion:	45	Resp:	2241
Ion	Ratio	Lower	Upper
45	100		
43	44.3	56.2	84.2#
87	27.5	21.5	32.3
59	12.5	8.7	13.1





#23

tert-Butyl Alcohol

Concen: 80.722 ug/l

RT: 2.965 min Scan# 308

Delta R.T. -0.018 min

Lab File: VX026919.D

Acq: 10 Feb 2022 14:43

Instrument :

MSVOA_X

ClientSampleId :

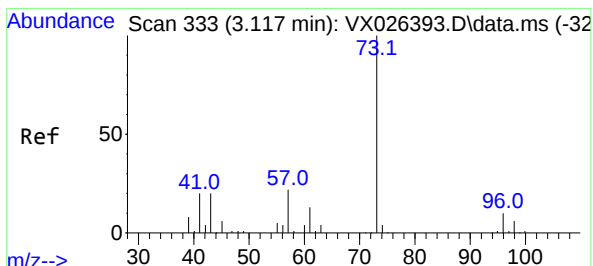
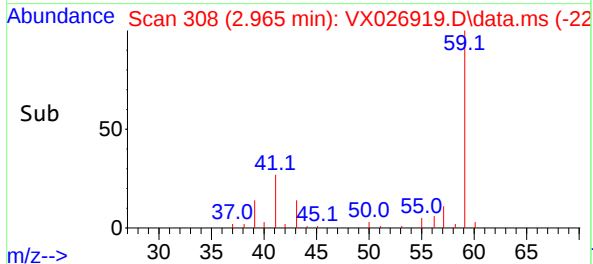
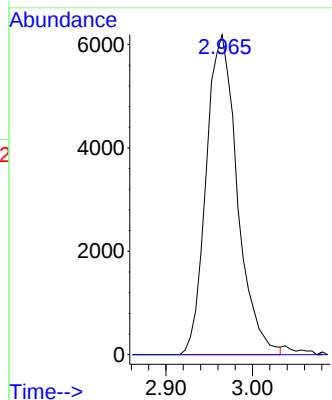
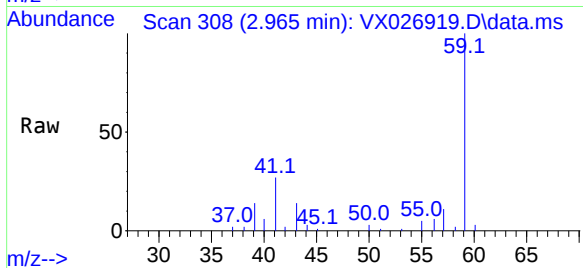
6NINF-0222

Tgt Ion: 59 Resp: 15497

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#24

Methyl tert-Butyl Ether

Concen: 7.125 ug/l

RT: 3.117 min Scan# 333

Delta R.T. 0.000 min

Lab File: VX026919.D

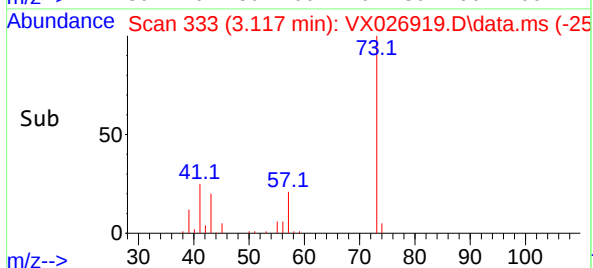
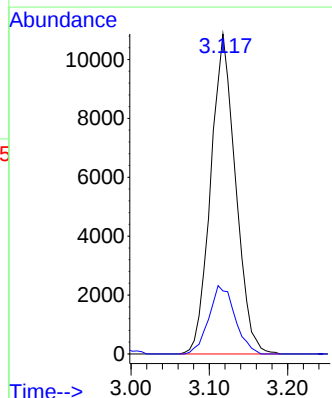
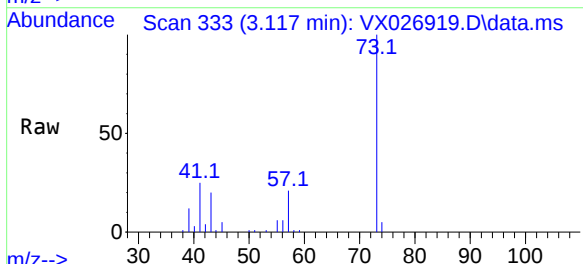
Acq: 10 Feb 2022 14:43

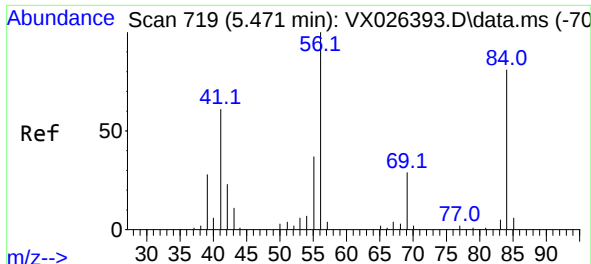
Tgt Ion: 73 Resp: 23999

Ion Ratio Lower Upper

73 100

43 22.4 17.1 25.7

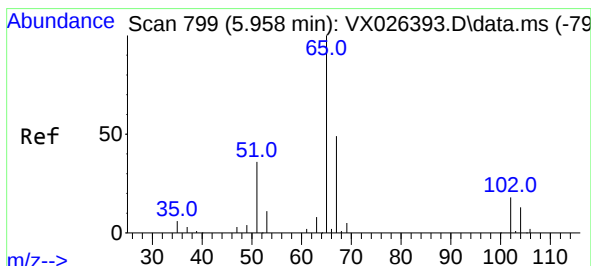
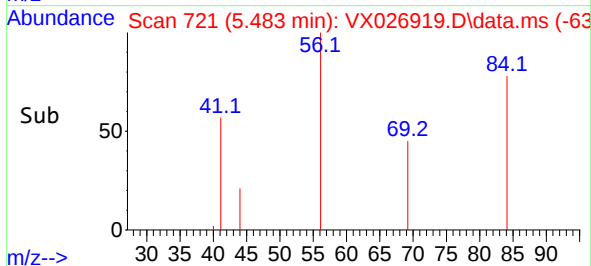
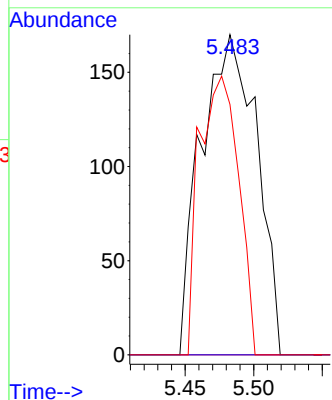
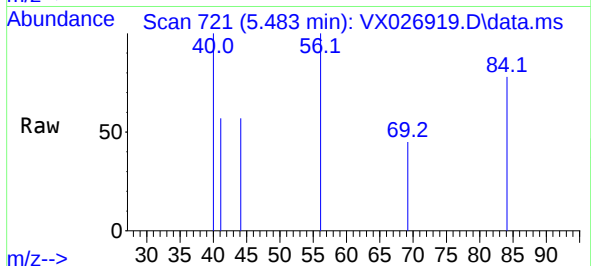




#26
Cyclohexane
Concen: 0.282 ug/l
RT: 5.483 min Scan# 719
Delta R.T. 0.012 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

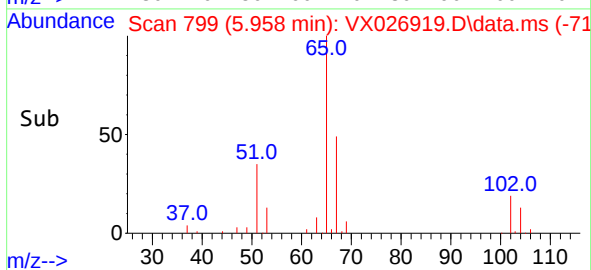
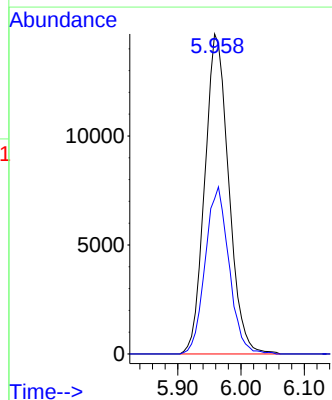
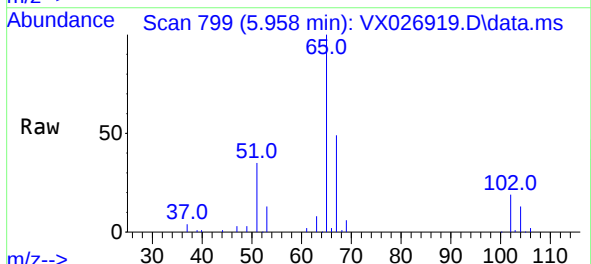
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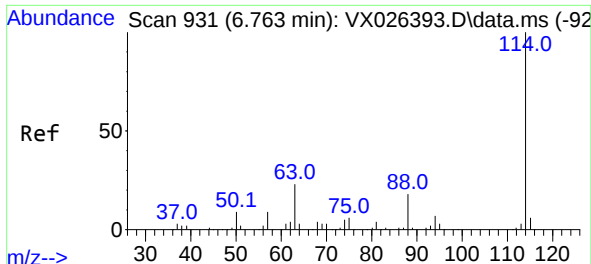
Tgt Ion: 56 Resp: 481
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 43.5 70.6 106.0#



#27
1,2-Dichloroethane-d4
Concen: 28.517 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 65 Resp: 38638
Ion Ratio Lower Upper
65 100
67 51.5 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX026919.D

Acq: 10 Feb 2022 14:43

Instrument :

MSVOA_X

ClientSampleId :

6NINF-0222

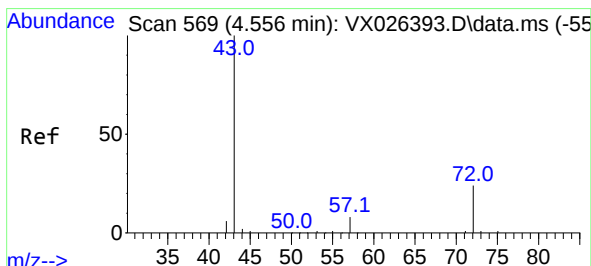
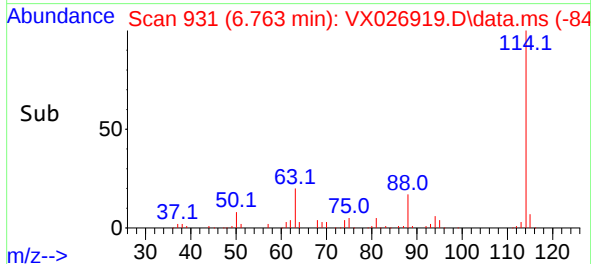
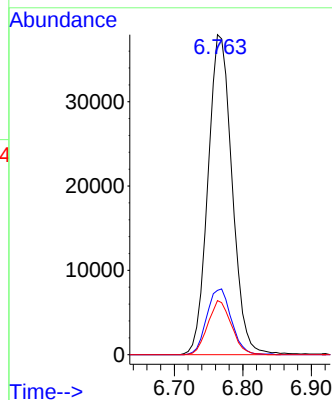
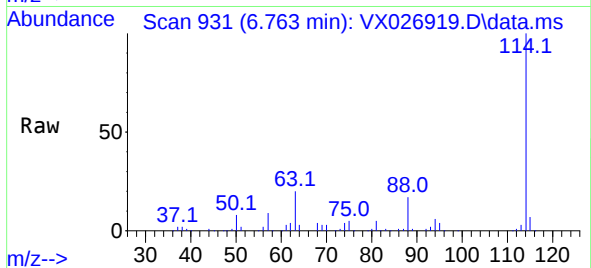
Tgt Ion:114 Resp: 92928

Ion Ratio Lower Upper

114 100

63 20.9 17.4 26.2

88 16.5 13.5 20.3



#30

2-Butanone

Concen: 0.717 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.012 min

Lab File: VX026919.D

Acq: 10 Feb 2022 14:43

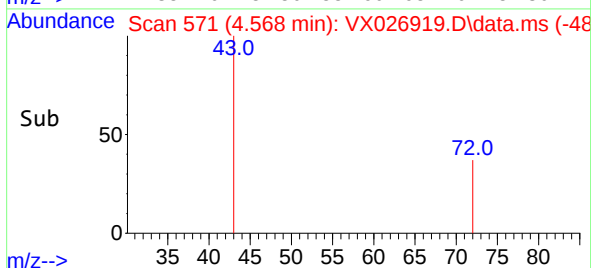
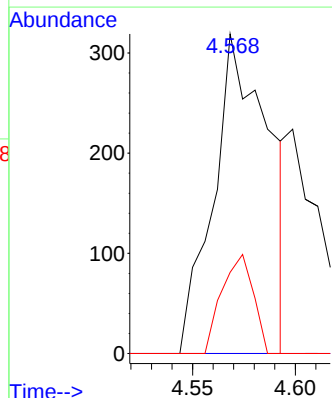
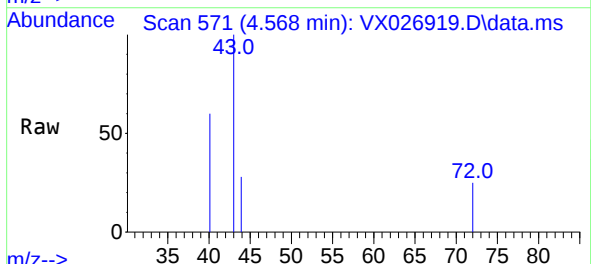
Tgt Ion: 43 Resp: 598

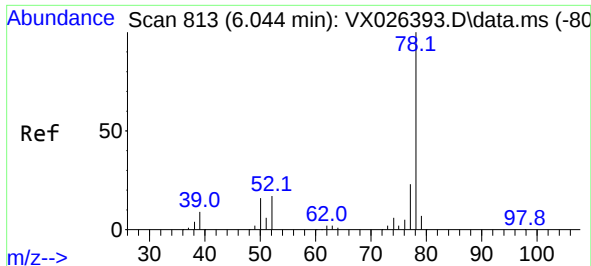
Ion Ratio Lower Upper

43 100

57 5.9 6.3 9.5#

72 17.6 19.8 29.6#

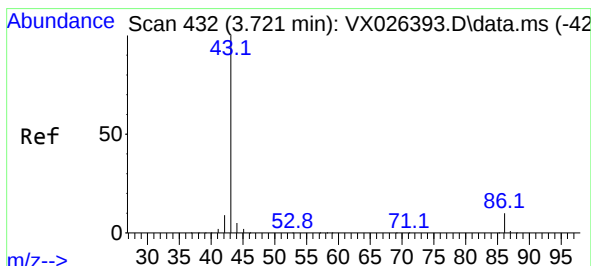
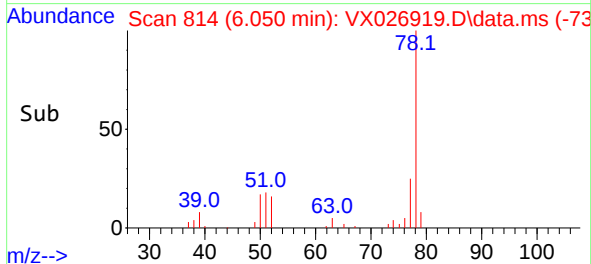
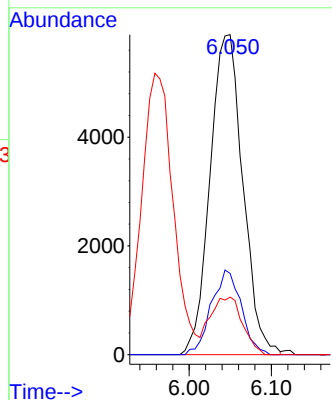
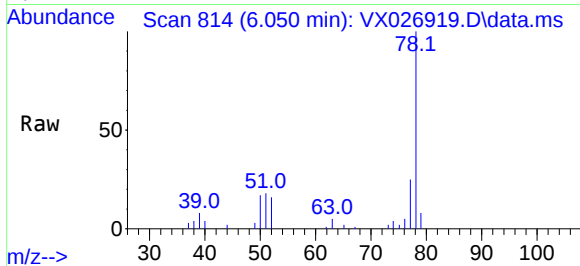




#34
Benzene
Concen: 4.100 ug/l
RT: 6.050 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

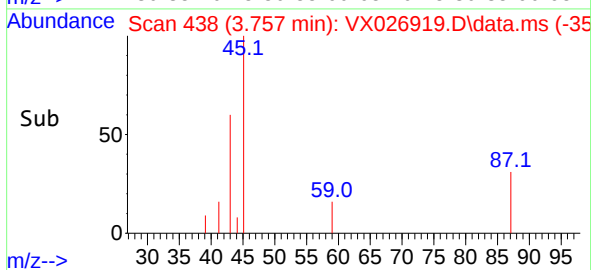
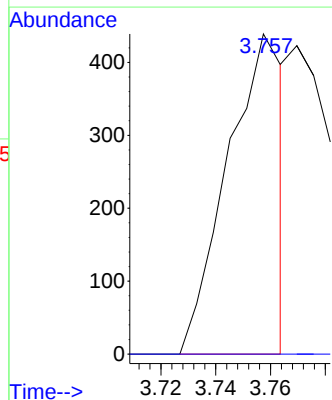
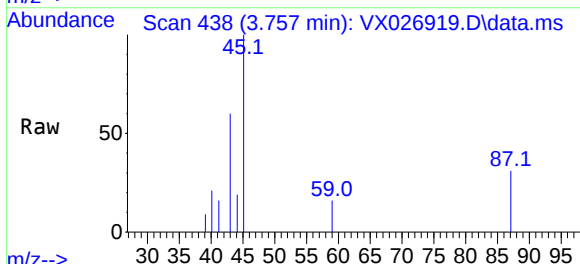
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

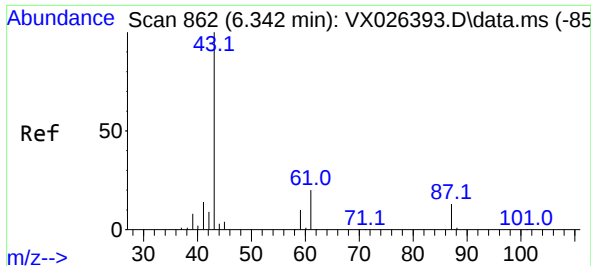
Tgt Ion: 78 Resp: 16317
Ion Ratio Lower Upper
78 100
77 25.4 18.7 28.1
51 18.0 13.5 20.3



#42
Vinyl Acetate
Concen: 0.242 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.037 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 43 Resp: 624
Ion Ratio Lower Upper
43 100
86 0.0 7.1 10.7#

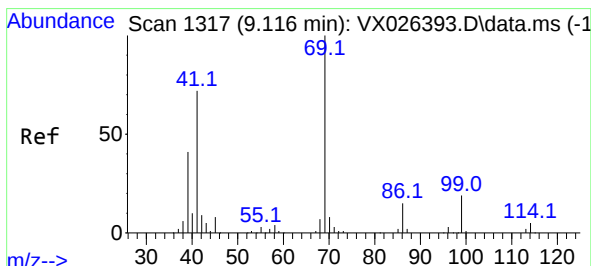
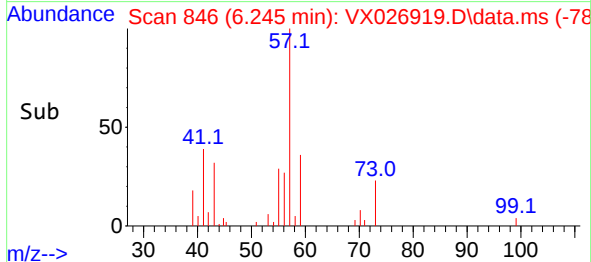
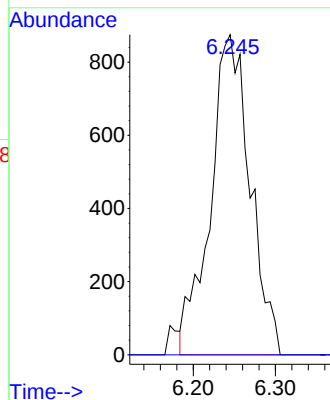
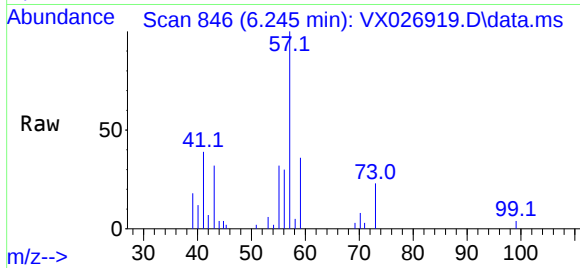




#44
Isopropyl Acetate
Concen: 1.174 ug/l
RT: 6.245 min Scan# 84
Delta R.T. -0.098 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

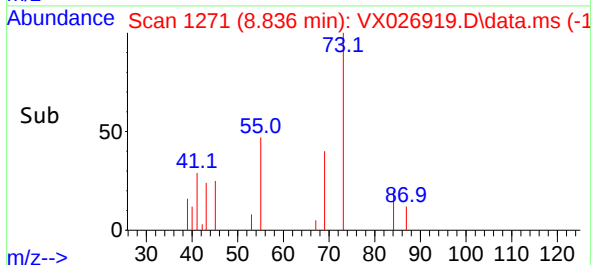
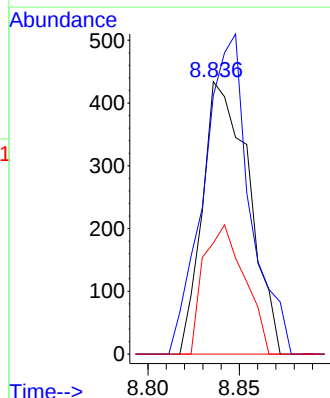
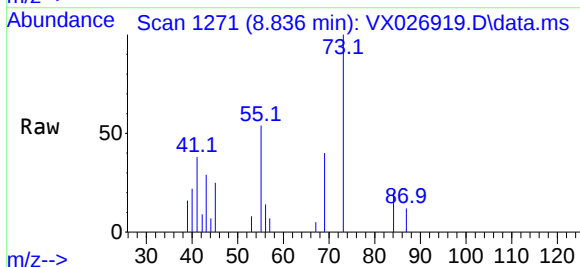
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

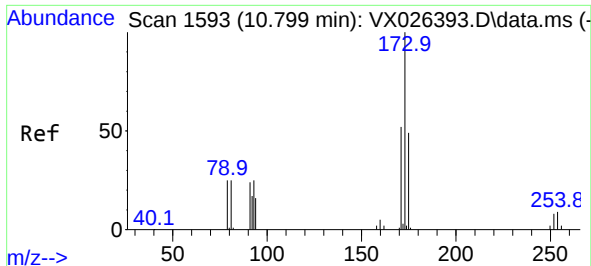
Tgt Ion: 43 Resp: 2936
Ion Ratio Lower Upper
43 100
61 0.0 15.4 23.2#



#51
Ethyl methacrylate
Concen: 0.488 ug/l
RT: 8.836 min Scan# 1271
Delta R.T. -0.280 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 69 Resp: 765
Ion Ratio Lower Upper
69 100
41 79.5 35.9 107.7
39 40.8 20.3 61.0

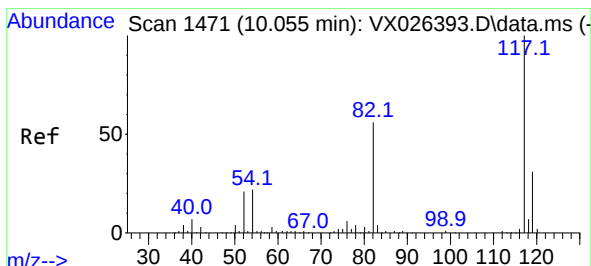
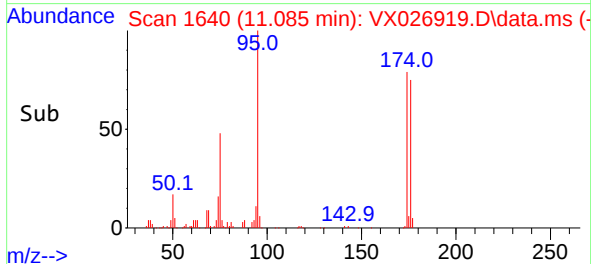
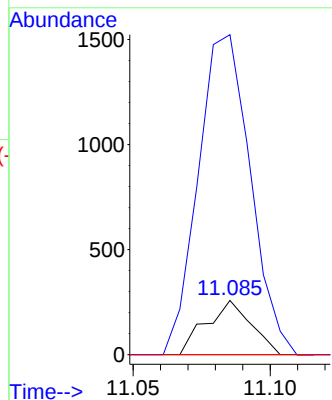
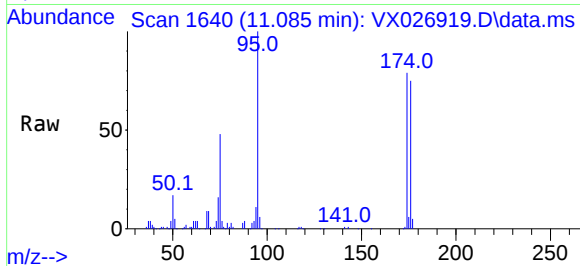




#56
Bromoform
Concen: 0.415 ug/l
RT: 11.085 min Scan# 11
Delta R.T. 0.287 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

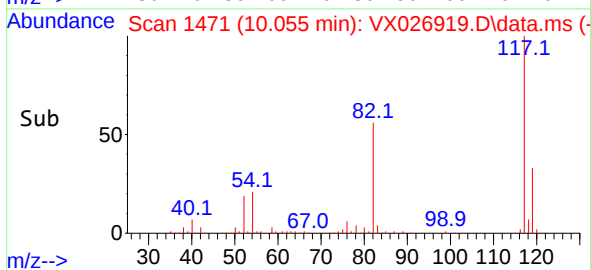
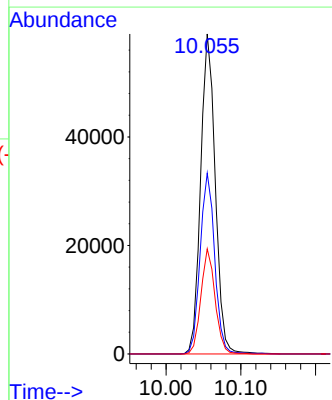
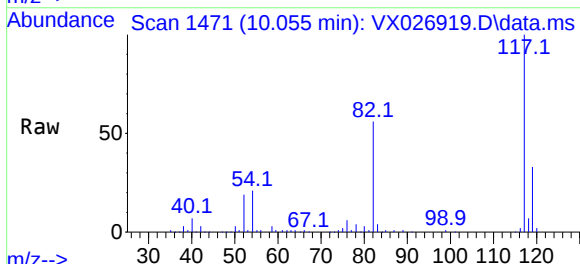
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

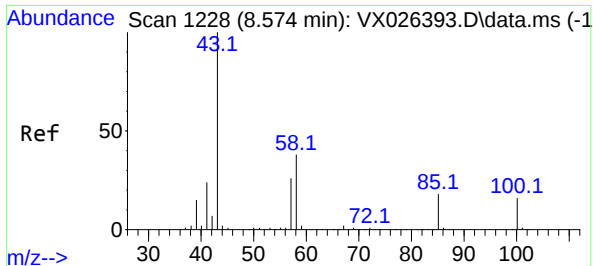
Tgt Ion:173 Resp: 294
Ion Ratio Lower Upper
173 100
175 686.7 38.0 57.0#
254 0.0 6.6 10.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion:117 Resp: 80191
Ion Ratio Lower Upper
117 100
82 56.3 46.2 69.4
119 31.8 25.4 38.2





#58

4-Methyl-2-Pentanone

Concen: 0.315 ug/l

RT: 8.507 min Scan# 11

Delta R.T. -0.067 min

Lab File: VX026919.D

Acq: 10 Feb 2022 14:43

Instrument :

MSVOA_X

ClientSampleId :

6NINF-0222

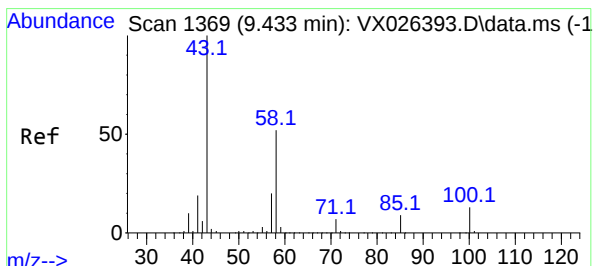
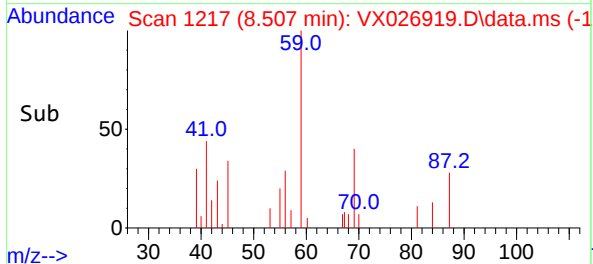
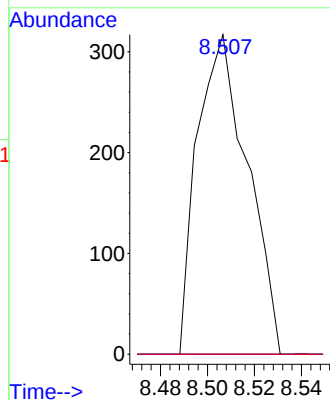
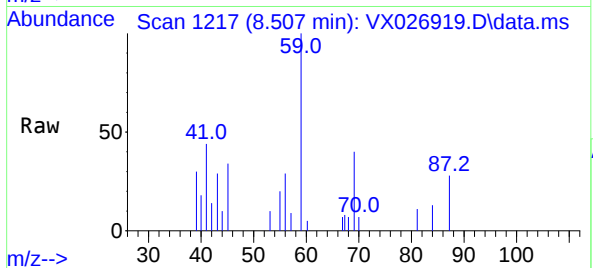
Tgt Ion: 43 Resp: 471

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#

85 0.0 14.1 21.1#



#59

2-Hexanone

Concen: 0.410 ug/l

RT: 9.451 min Scan# 1372

Delta R.T. 0.018 min

Lab File: VX026919.D

Acq: 10 Feb 2022 14:43

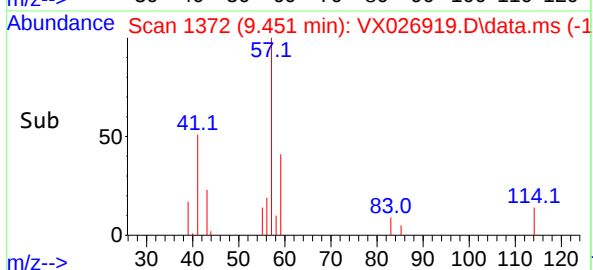
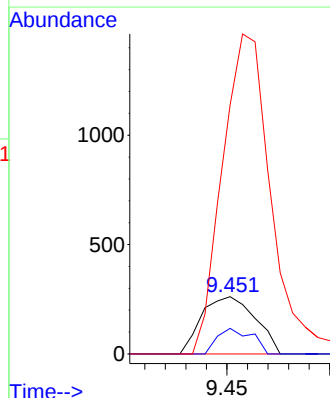
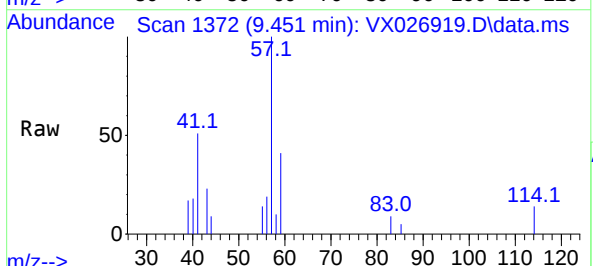
Tgt Ion: 43 Resp: 475

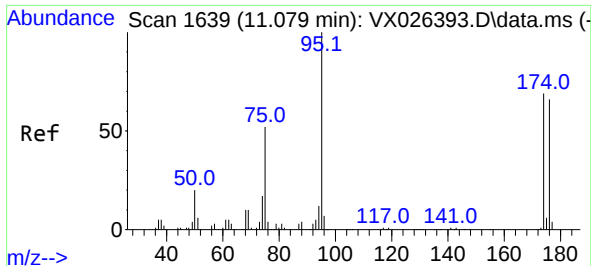
Ion Ratio Lower Upper

43 100

58 28.6 42.0 63.0#

57 504.8 15.2 22.8#

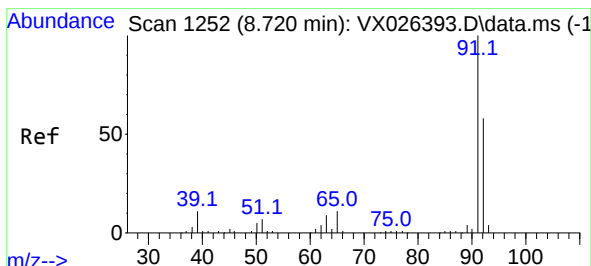
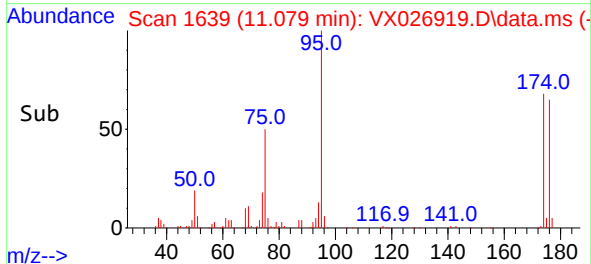
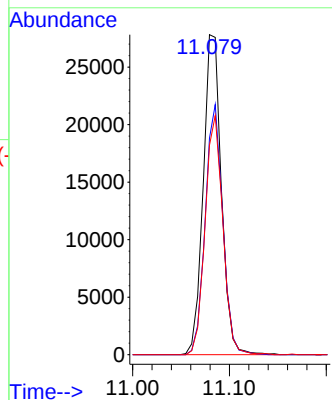
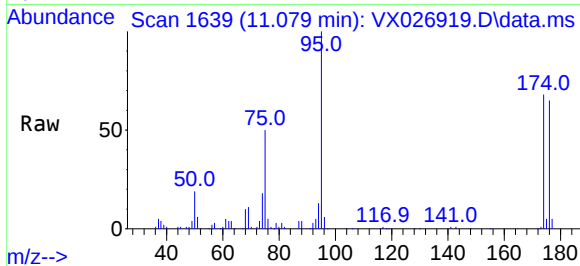




#60
4-Bromofluorobenzene
Concen: 27.260 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

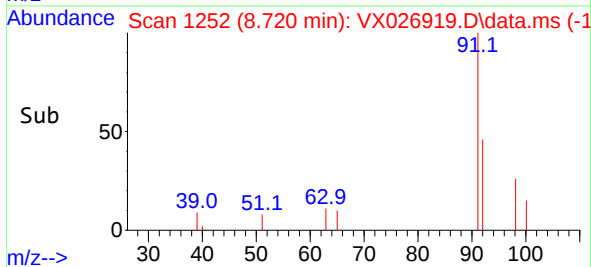
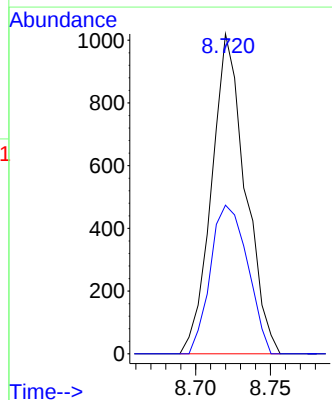
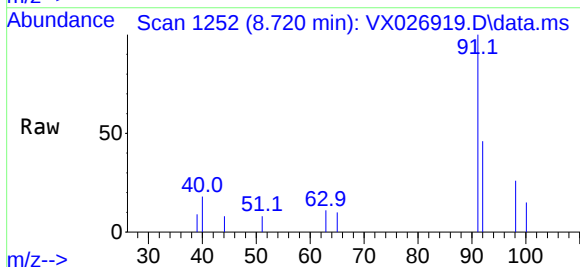
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

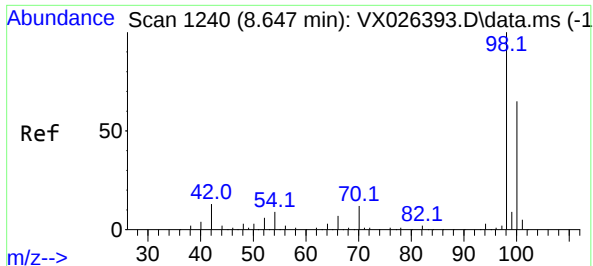
Tgt Ion: 95 Resp: 36483
Ion Ratio Lower Upper
95 100
174 75.2 58.0 87.0
176 72.9 56.5 84.7



#62
Toluene
Concen: 0.374 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 91 Resp: 1602
Ion Ratio Lower Upper
91 100
92 51.1 47.2 70.8

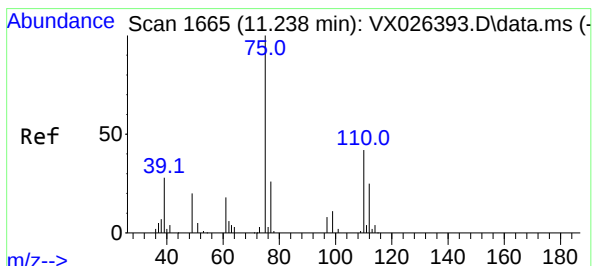
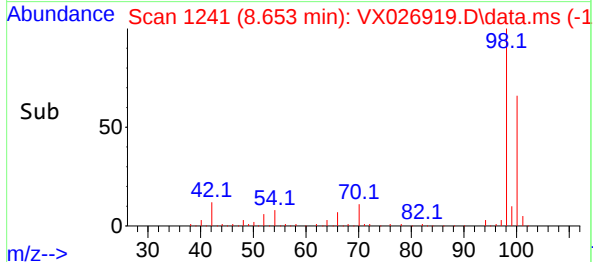
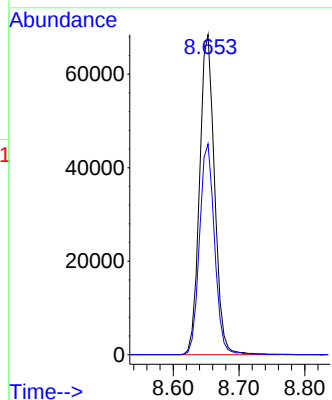
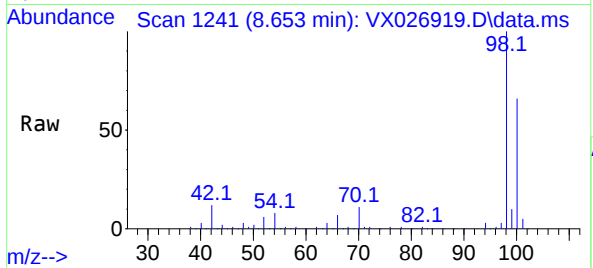




#63
Toluene-d8
Concen: 29.464 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

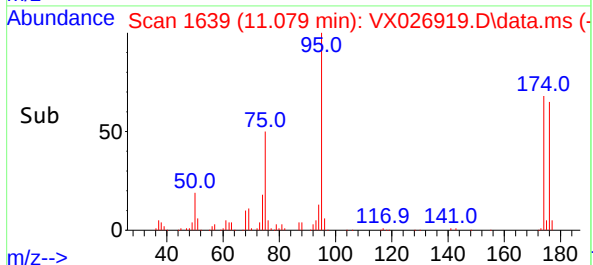
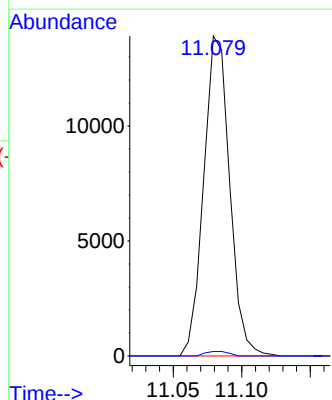
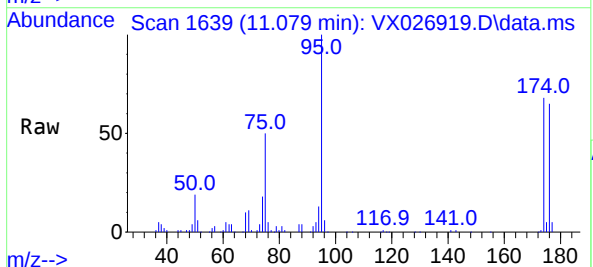
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

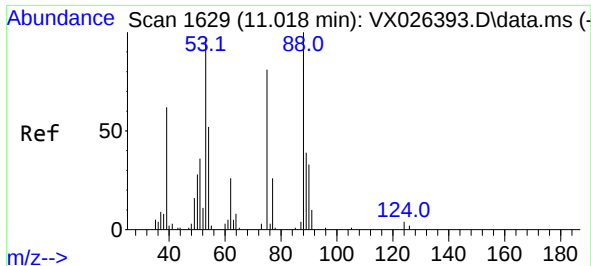
Tgt Ion: 98 Resp: 108543
Ion Ratio Lower Upper
98 100
100 66.2 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 14.339 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 75 Resp: 18353
Ion Ratio Lower Upper
75 100
77 1.3 0.0 76.2

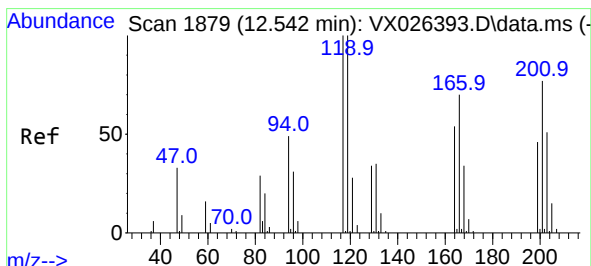
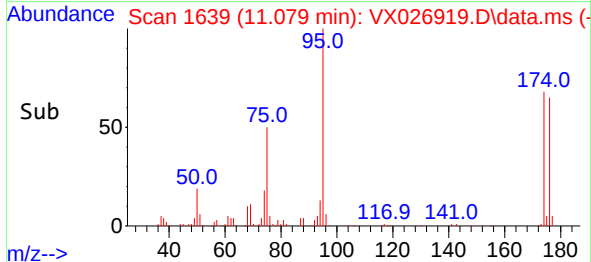
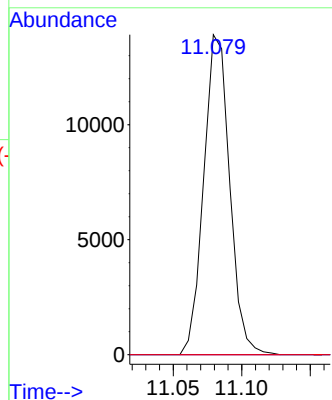
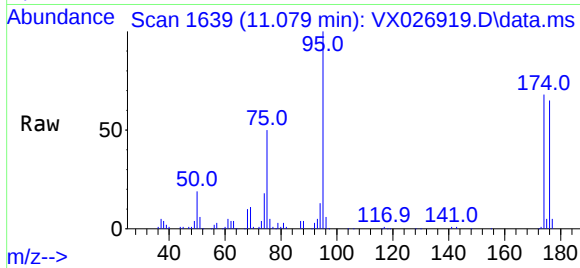




#77
t-1,4-Dichloro-2-butene
Concen: 47.678 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Instrument :
MSVOA_X
ClientSampleId :
6NINF-0222

Tgt Ion: 75 Resp: 18353
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 24.0 72.0#



#86
Hexachloroethane
Concen: 0.272 ug/l
RT: 12.646 min Scan# 1896
Delta R.T. 0.104 min
Lab File: VX026919.D
Acq: 10 Feb 2022 14:43

Tgt Ion: 117 Resp: 163
Ion Ratio Lower Upper
117 100
201 0.0 36.3 108.7#

