

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040871.D
 Acq On : 15 Nov 2023 16:54
 Operator : SY/MD
 Sample : 05277-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-5

Quant Time: Nov 16 05:53:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

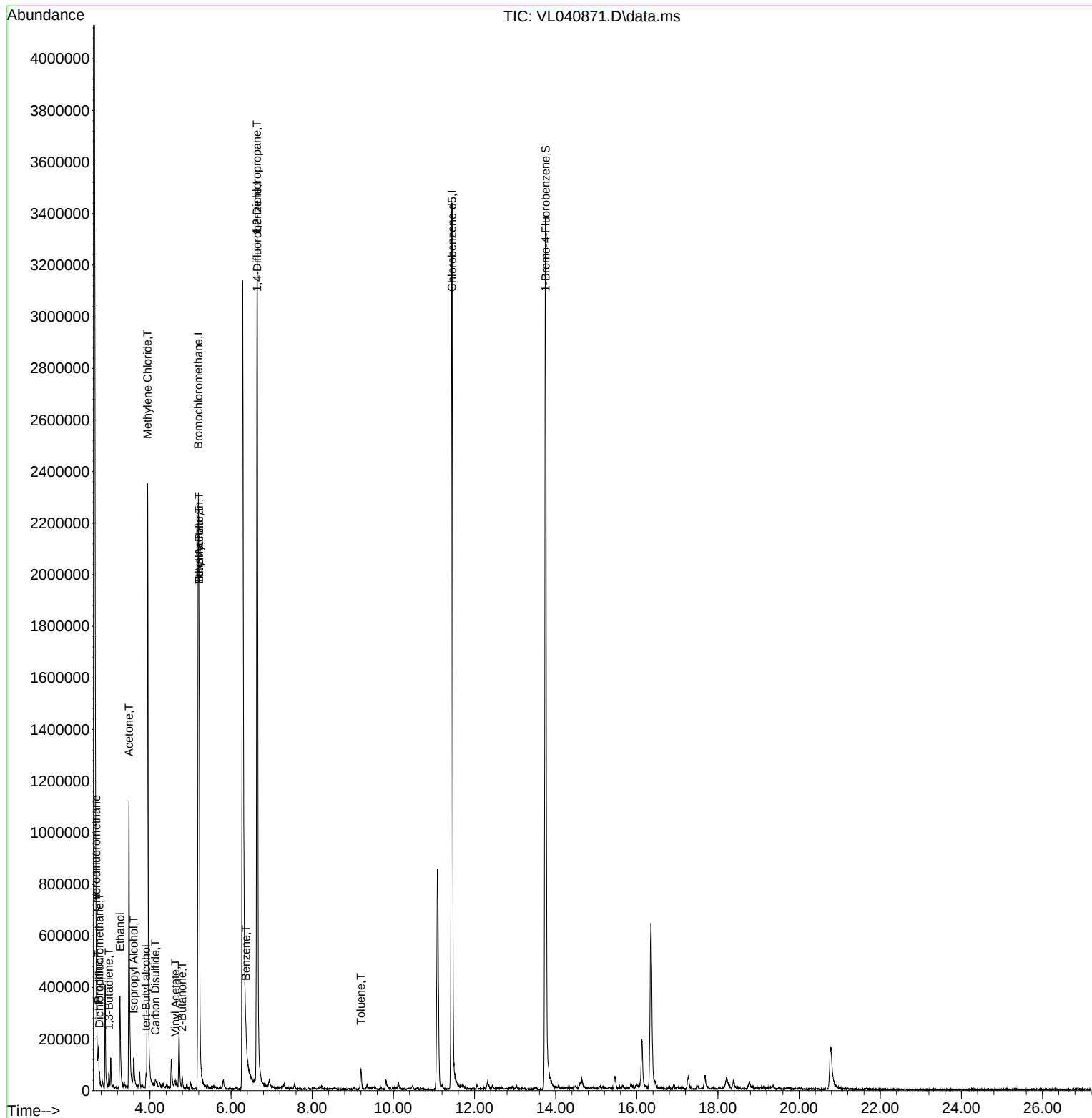
Internal Standards						
1) Bromochloromethane	5.192	49	991567	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	2513890	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2225148	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1746133	10.023	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.755	85	23102	0.115	ppbv	97
3) Chlorodifluoromethane	2.677	51	6109	0.039	ppbv #	58
9) Propene	2.732	41	33352	0.625	ppbv	87
13) Ethanol	3.263	45	360288	34.777	ppbv #	100
15) Acetone	3.484	43	1085095	10.275	ppbv	93
16) 1,3-Butadiene	2.989	39	14498	0.271	ppbv #	11
17) tert-Butyl alcohol	3.902	59	30091	0.333	ppbv #	88
19) Isopropyl Alcohol	3.600	45	107153	1.686	ppbv #	1
20) Methylene Chloride	3.944	84	762957	17.506	ppbv	93
23) Vinyl Acetate	4.626	43	11917	0.087	ppbv #	86
25) Ethyl Acetate	5.211	43	340157	1.556	ppbv #	77
26) Hexane	5.211	57	491064	5.074	ppbv #	40
27) Carbon Disulfide	4.134	76	28187	0.230	ppbv #	61
34) 2-Butanone	4.793	43	42910	0.335	ppbv #	77
36) Benzene	6.365	78	32009	0.157	ppbv #	86
39) 1,2-Dichloropropane	6.639	63	625517	7.732	ppbv #	23
41) Tetrahydrofuran	5.211	42	181395	2.301	ppbv #	50
53) Toluene	9.201	91	31960	0.142	ppbv #	46

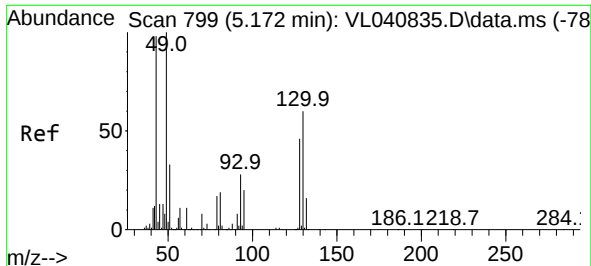
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Nov 13 15:42:46 2023
Response via : Initial Calibration

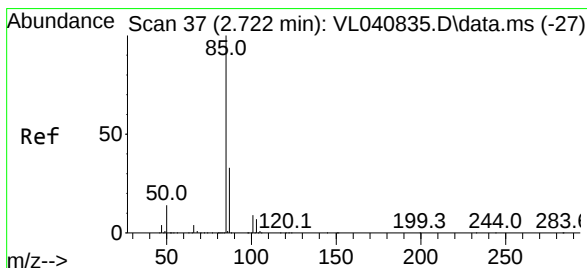
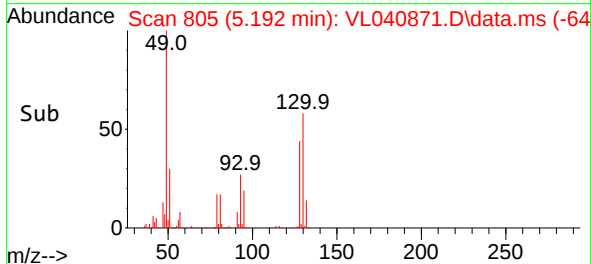
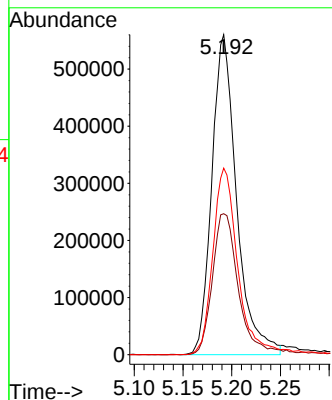
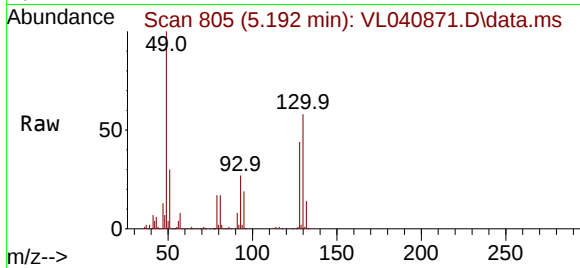




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

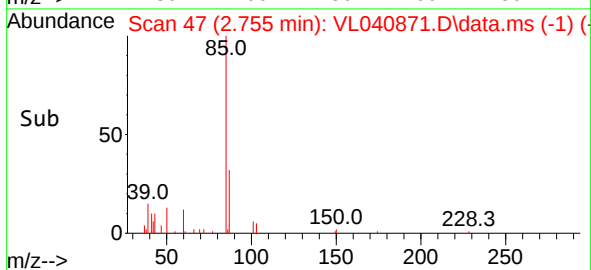
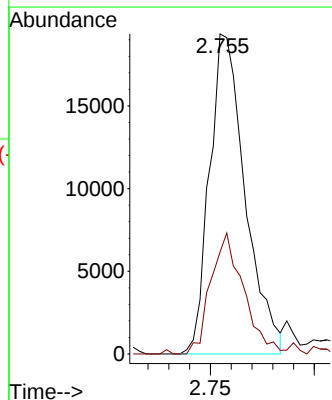
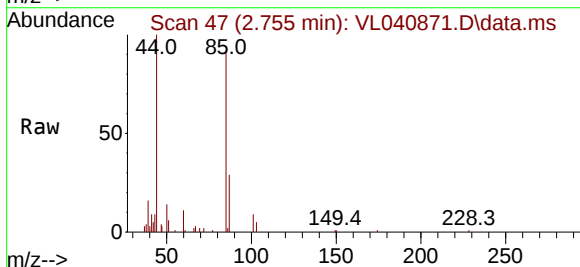
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

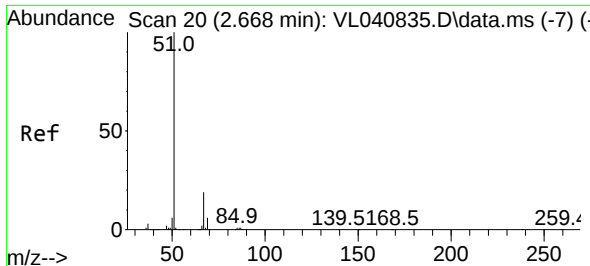
Tgt Ion: 49 Resp: 991567
Ion Ratio Lower Upper
49 100
128 47.7 23.8 71.2
130 60.5 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.115 ppbv
RT: 2.755 min Scan# 47
Delta R.T. 0.032 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 85 Resp: 23102
Ion Ratio Lower Upper
85 100
87 31.9 26.7 40.1

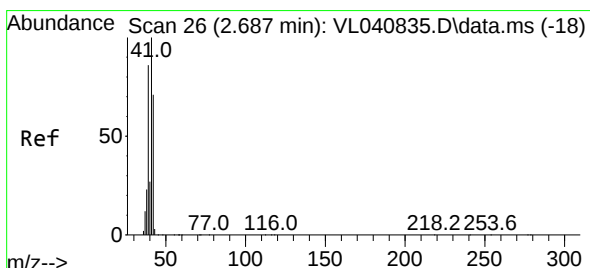
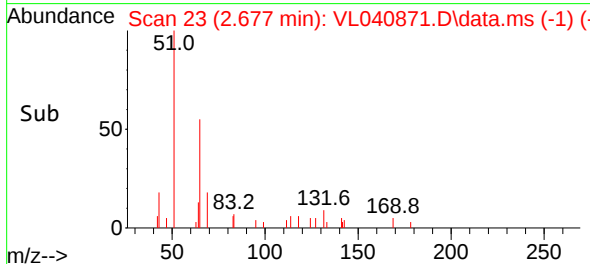
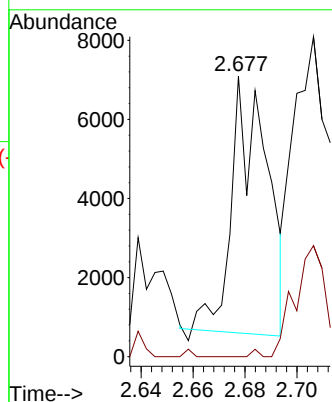
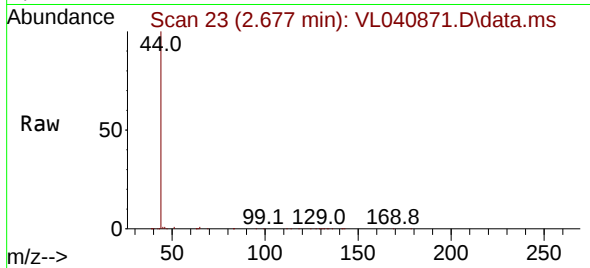




#3
Chlorodifluoromethane
Concen: 0.039 ppbv
RT: 2.677 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

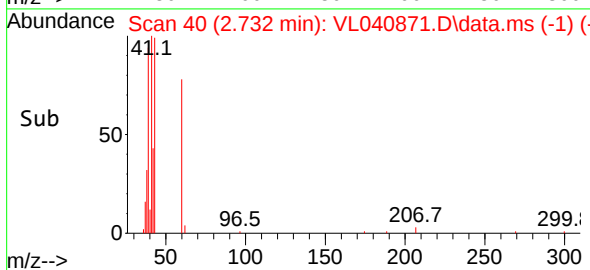
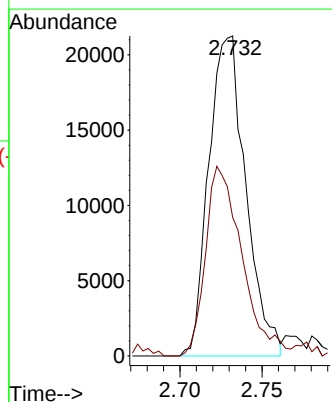
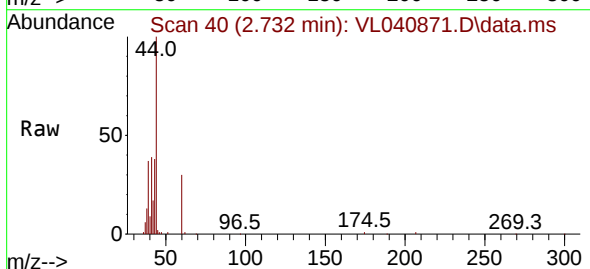
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

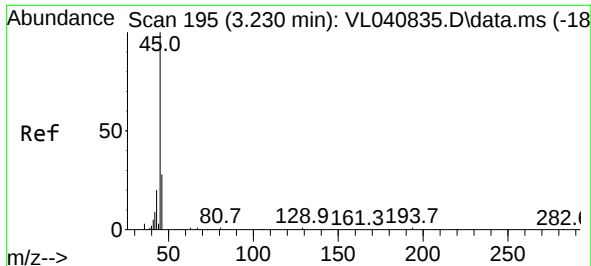
Tgt Ion: 51 Resp: 6109
Ion Ratio Lower Upper
51 100
67 0.0 15.0 22.4#



#9
Propene
Concen: 0.625 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.045 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 41 Resp: 33352
Ion Ratio Lower Upper
41 100
42 60.1 56.5 84.7

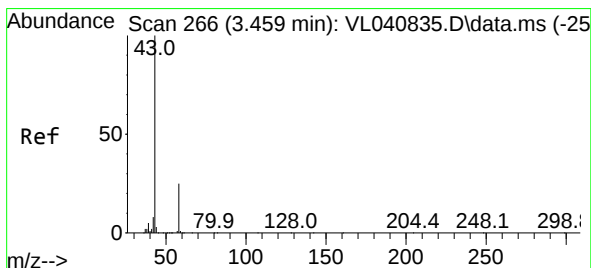
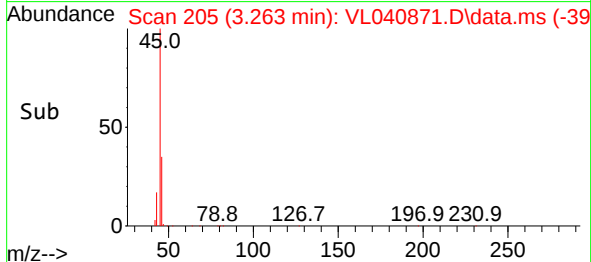
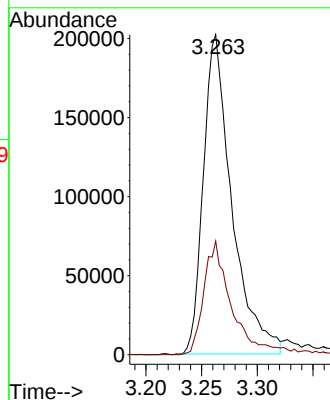
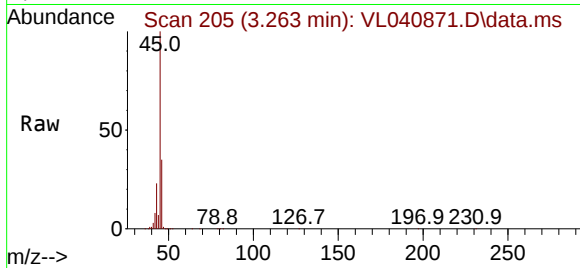




#13
Ethanol
Concen: 34.777 ppbv
RT: 3.263 min Scan# 205
Delta R.T. 0.032 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

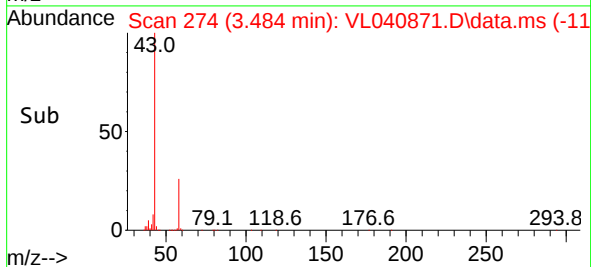
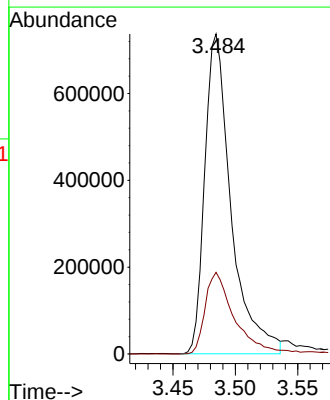
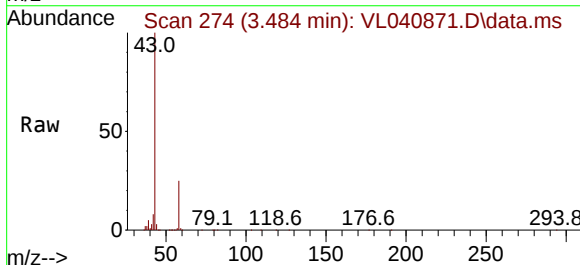
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

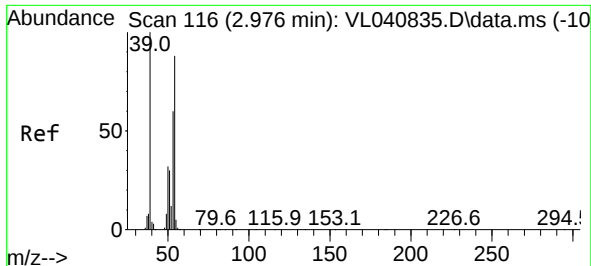
Tgt Ion: 45 Resp: 360288
Ion Ratio Lower Upper
45 100
46 36.1 0.0 0.0#



#15
Acetone
Concen: 10.275 ppbv
RT: 3.484 min Scan# 274
Delta R.T. 0.026 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 43 Resp: 1085095
Ion Ratio Lower Upper
43 100
58 29.9 20.9 31.3

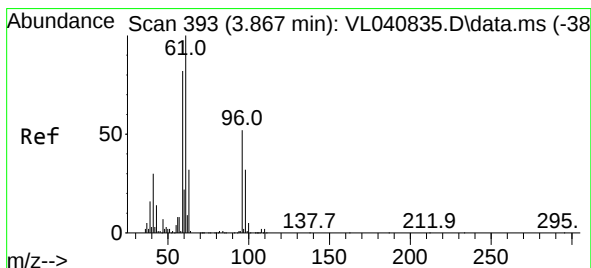
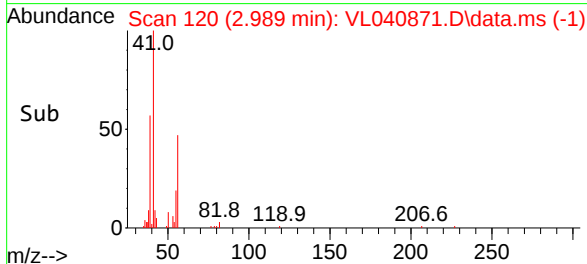
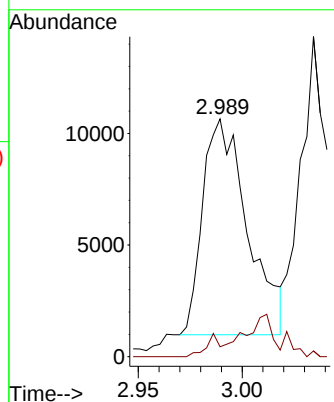
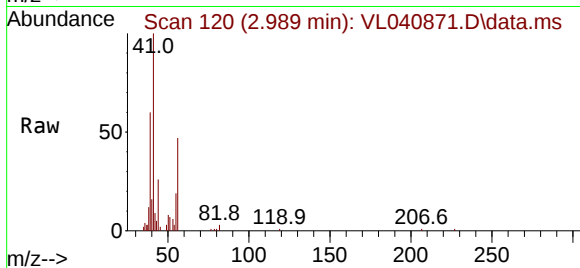




#16
1,3-Butadiene
Concen: 0.271 ppbv
RT: 2.989 min Scan# 116
Delta R.T. 0.013 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

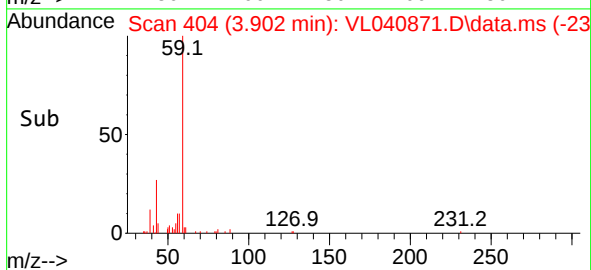
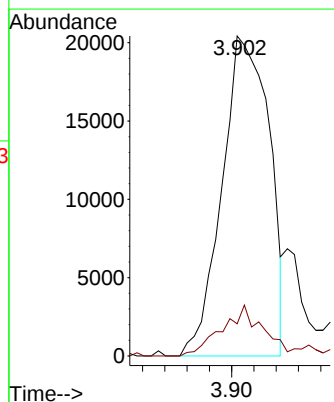
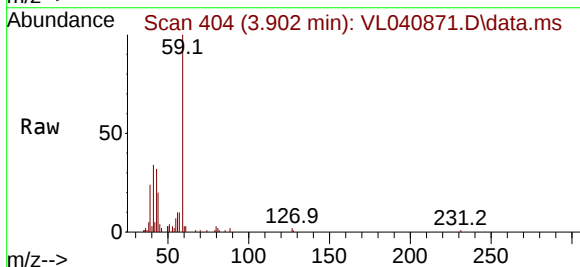
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

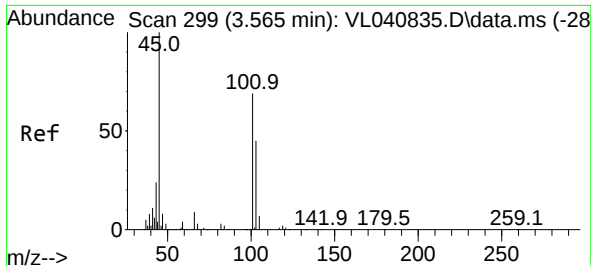
Tgt Ion: 39 Resp: 14498
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#



#17
tert-Butyl alcohol
Concen: 0.333 ppbv
RT: 3.902 min Scan# 404
Delta R.T. 0.035 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 59 Resp: 30091
Ion Ratio Lower Upper
59 100
57 15.8 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 1.686 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.035 min

Lab File: VL040871.D

Acq: 15 Nov 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

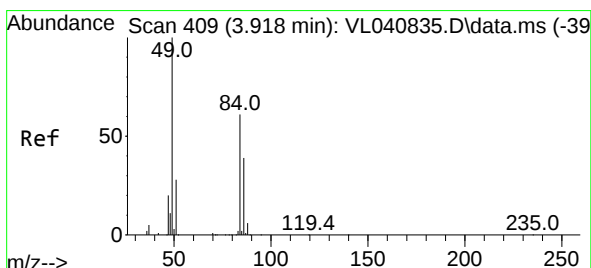
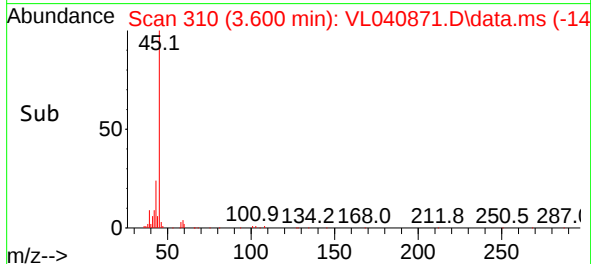
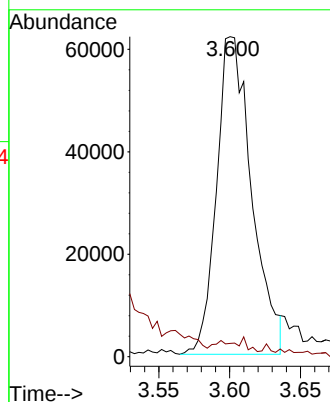
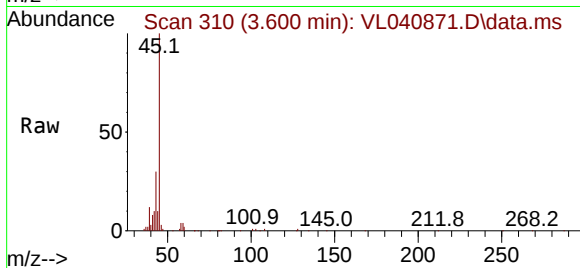
NT-SS-5

Tgt Ion: 45 Resp: 107153

Ion Ratio Lower Upper

45 100

58 302.9 1.6 2.4#



#20

Methylene Chloride

Concen: 17.506 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.026 min

Lab File: VL040871.D

Acq: 15 Nov 2023 16:54

Tgt Ion: 84 Resp: 762957

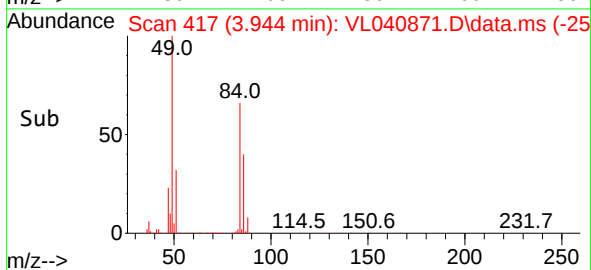
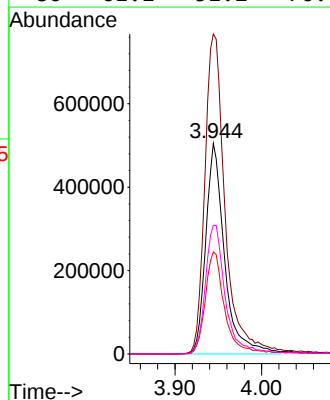
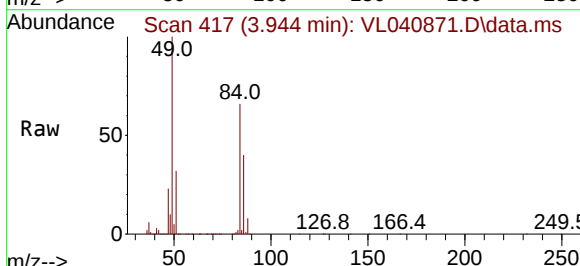
Ion Ratio Lower Upper

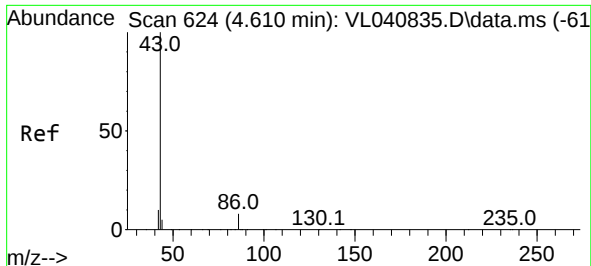
84 100

49 151.9 131.0 196.4

51 48.3 36.9 55.3

86 61.1 51.2 76.8

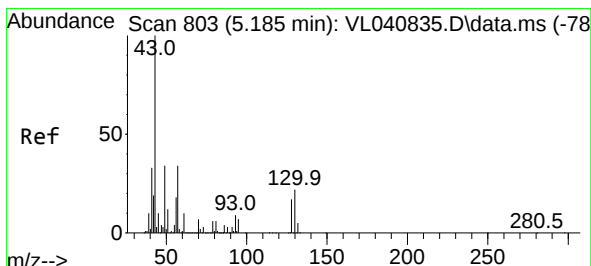
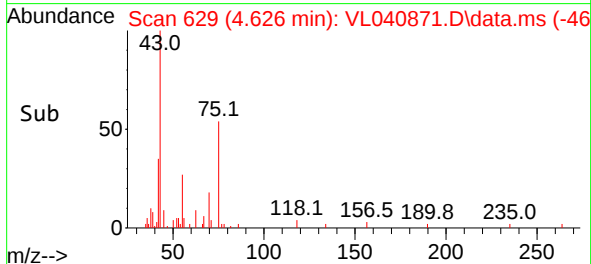
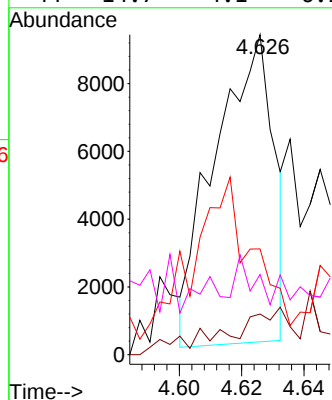
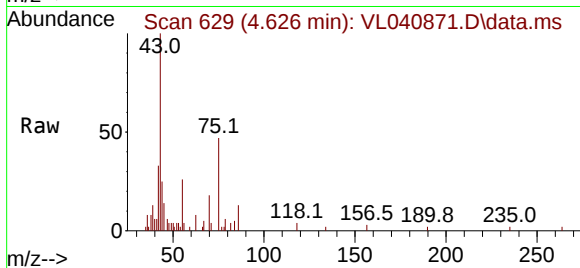




#23
 Vinyl Acetate
 Concen: 0.087 ppbv
 RT: 4.626 min Scan# 61
 Delta R.T. 0.016 min
 Lab File: VL040871.D
 Acq: 15 Nov 2023 16:54

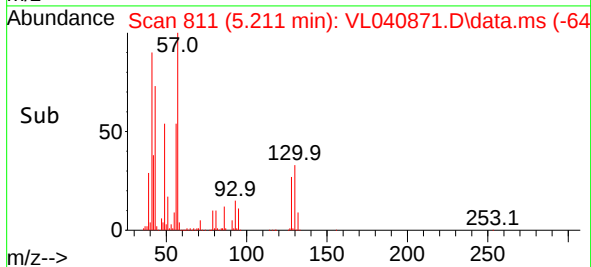
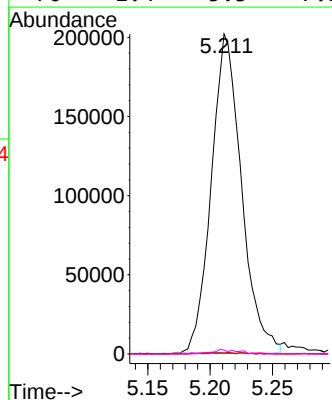
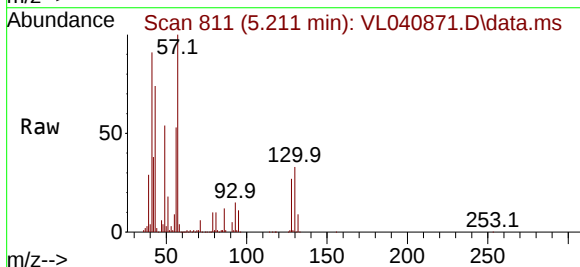
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 ClientSampleId :
 NT-SS-5

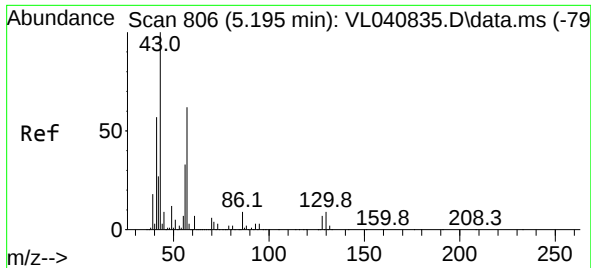
Tgt Ion:	43	Resp:	11917
Ion	Ratio	Lower	Upper
43	100		
86	8.4	5.5	8.3#
42	15.0	8.2	12.2#
44	14.7	4.1	6.1#



#25
 Ethyl Acetate
 Concen: 1.556 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.026 min
 Lab File: VL040871.D
 Acq: 15 Nov 2023 16:54

Tgt Ion:	43	Resp:	340157
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.1	12.1#
61	0.4	7.8	11.6#
70	1.4	5.3	7.9#

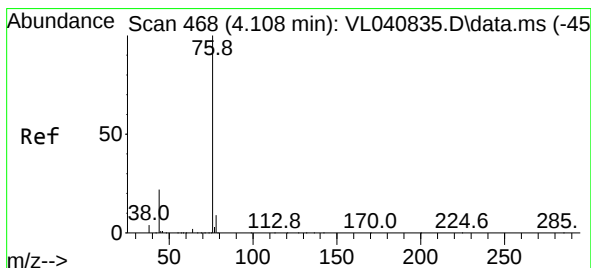
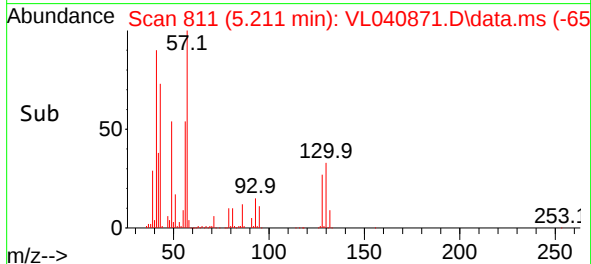
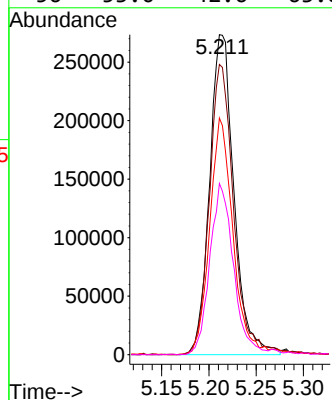
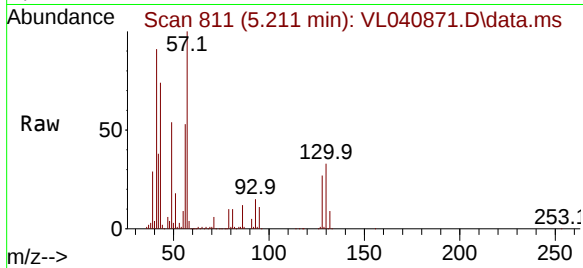




#26
Hexane
Concen: 5.074 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

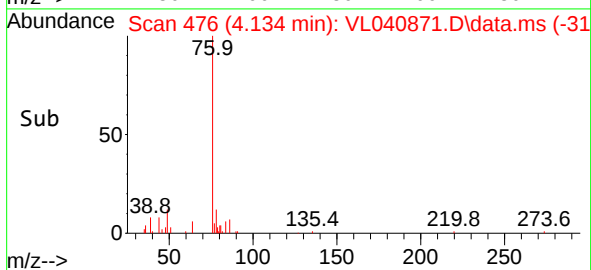
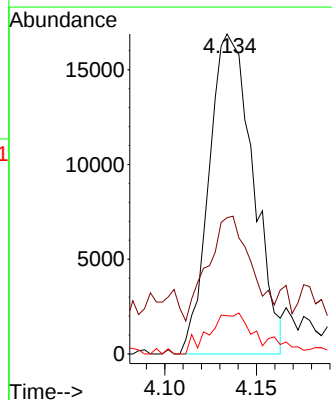
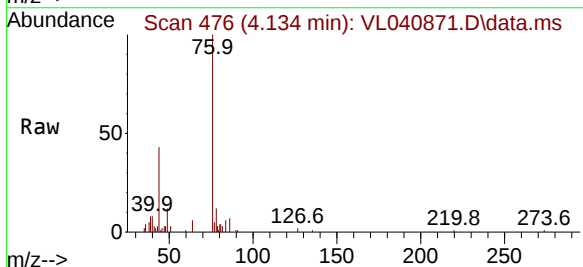
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

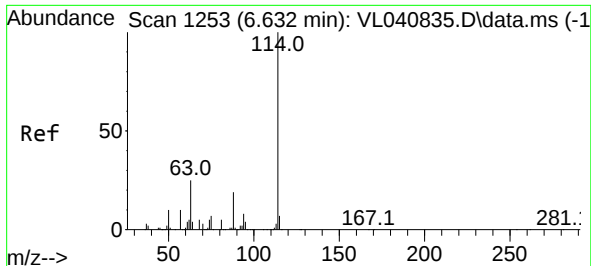
Tgt Ion: 57 Resp: 491064
Ion Ratio Lower Upper
57 100
41 91.4 75.4 113.0
43 72.3 185.9 278.9#
56 53.0 42.6 63.8



#27
Carbon Disulfide
Concen: 0.230 ppbv
RT: 4.134 min Scan# 476
Delta R.T. 0.026 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 76 Resp: 28187
Ion Ratio Lower Upper
76 100
44 42.8 16.7 25.1#
78 17.6 7.6 11.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040871.D

Acq: 15 Nov 2023 16:54

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-5

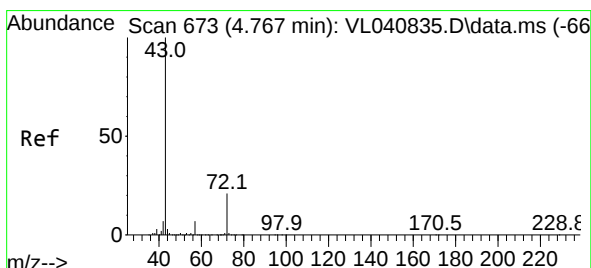
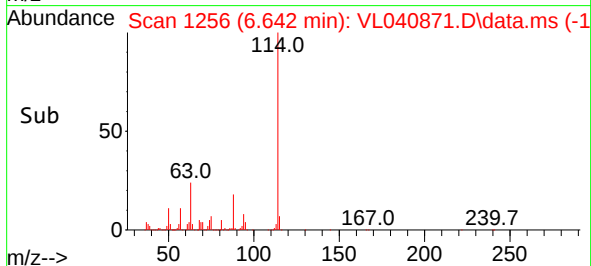
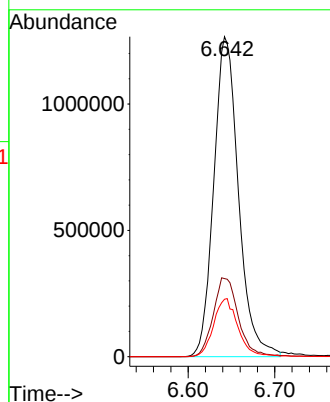
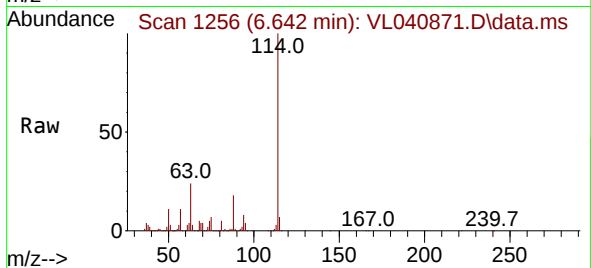
Tgt Ion:114 Resp: 2513890

Ion Ratio Lower Upper

114 100

63 25.3 20.9 31.3

88 18.1 14.3 21.5



#34

2-Butanone

Concen: 0.335 ppbv

RT: 4.793 min Scan# 681

Delta R.T. 0.026 min

Lab File: VL040871.D

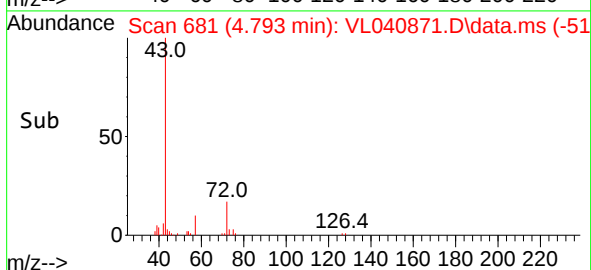
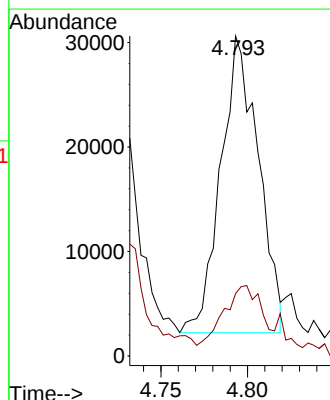
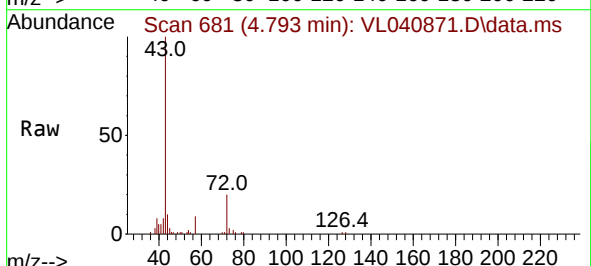
Acq: 15 Nov 2023 16:54

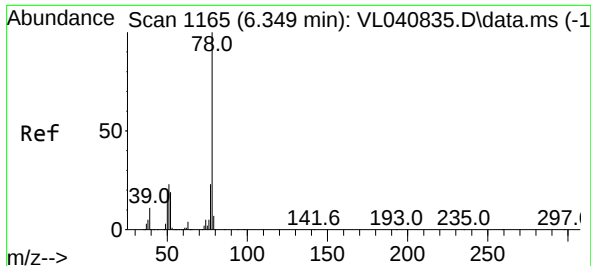
Tgt Ion: 43 Resp: 42910

Ion Ratio Lower Upper

43 100

72 32.4 17.2 25.8#

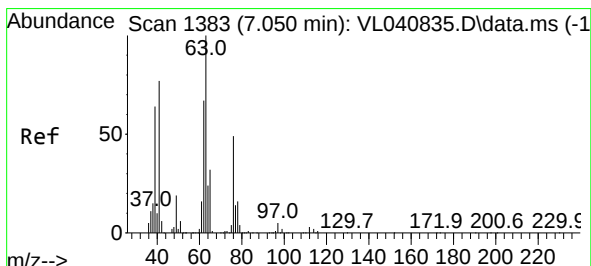
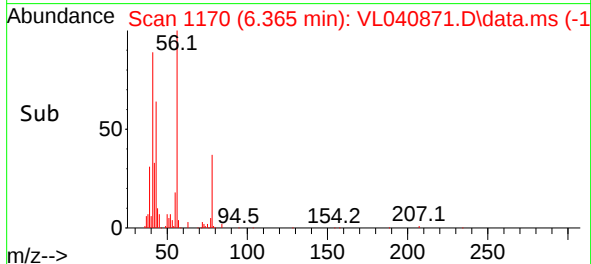
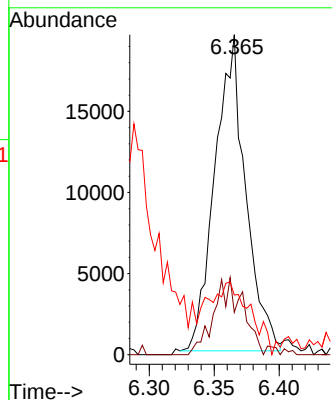
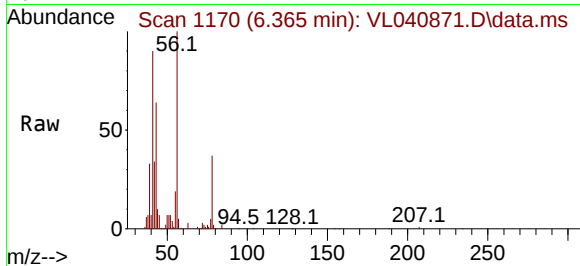




#36
Benzene
Concen: 0.157 ppbv
RT: 6.365 min Scan# 1165
Delta R.T. 0.016 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

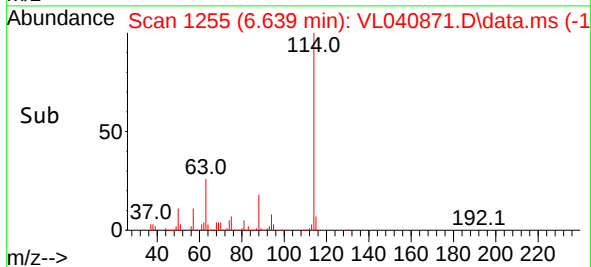
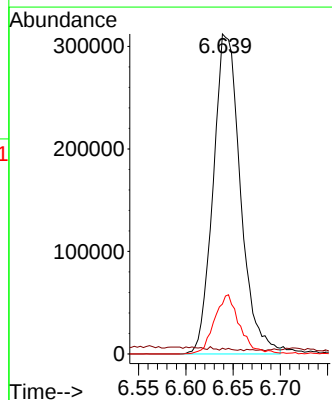
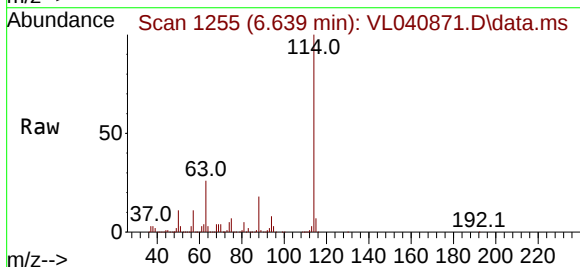
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

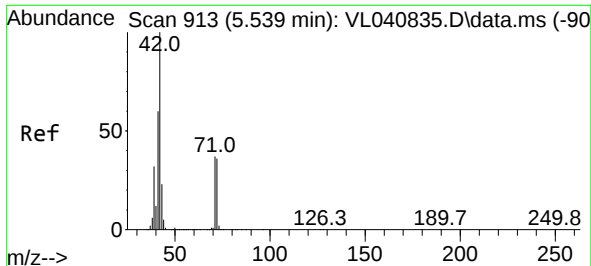
Tgt Ion: 78 Resp: 32009
Ion Ratio Lower Upper
78 100
77 13.4 18.4 27.6#
50 16.5 16.2 24.2



#39
1,2-Dichloropropane
Concen: 7.732 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.411 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 63 Resp: 625517
Ion Ratio Lower Upper
63 100
41 0.5 61.5 92.3#
62 15.6 53.9 80.9#

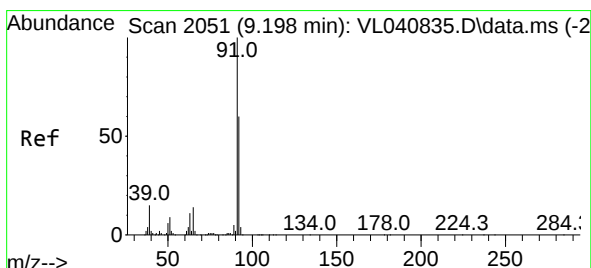
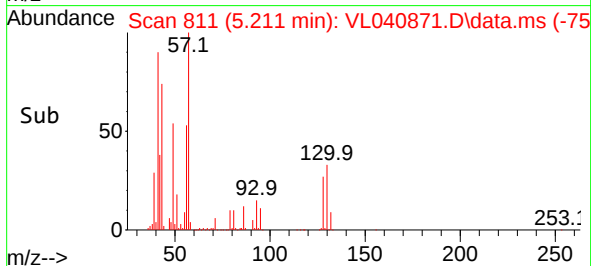
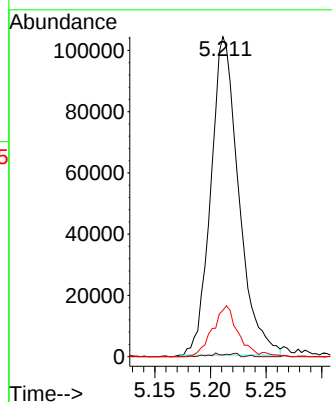
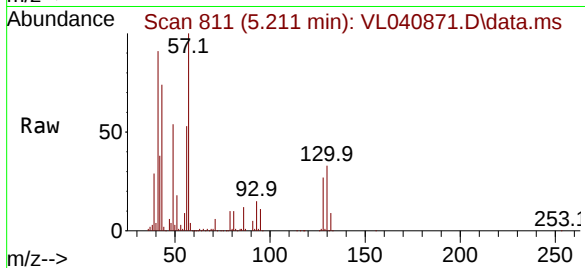




#41
Tetrahydrofuran
Concen: 2.301 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.328 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

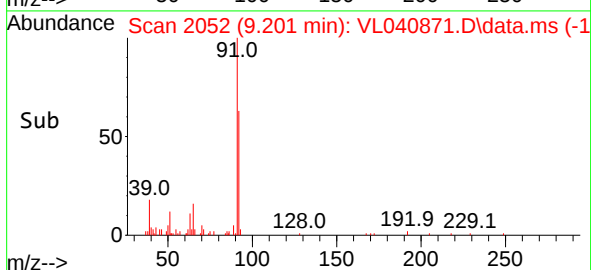
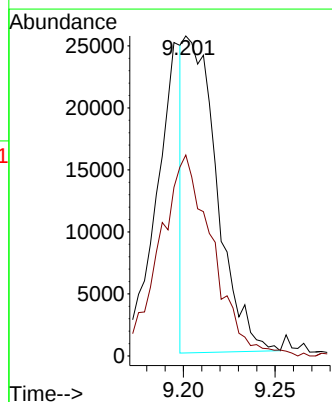
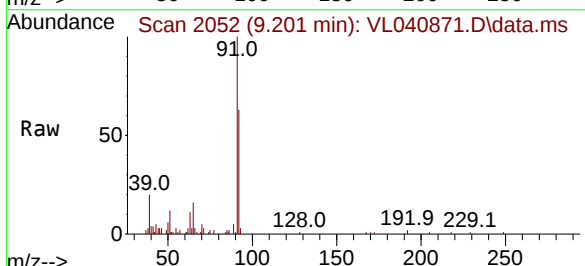
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

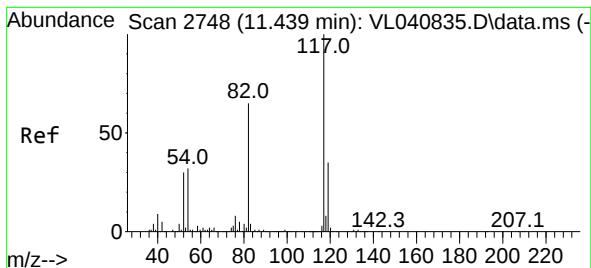
Tgt Ion: 42 Resp: 181395
Ion Ratio Lower Upper
42 100
72 0.9 30.8 46.2#
71 15.0 30.0 45.0#



#53
Toluene
Concen: 0.142 ppbv
RT: 9.201 min Scan# 2052
Delta R.T. 0.003 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 91 Resp: 31960
Ion Ratio Lower Upper
91 100
92 103.0 49.4 74.2#

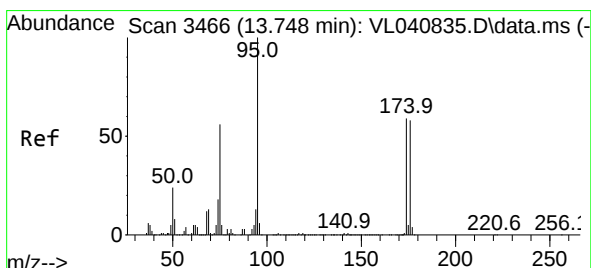
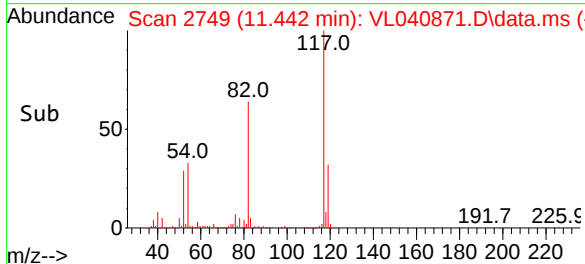
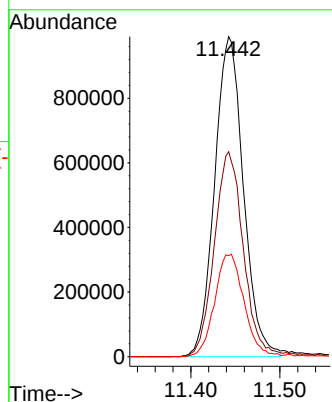
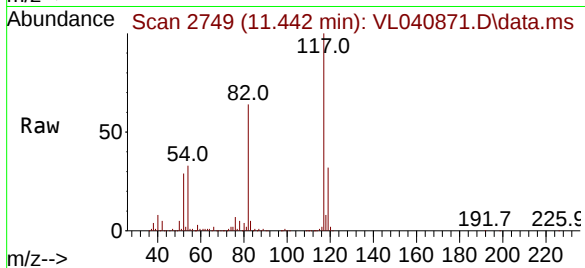




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-5

Tgt Ion:117 Resp: 2225148
Ion Ratio Lower Upper
117 100
82 66.0 50.6 75.8
119 33.0 23.3 34.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.023 ppbv
RT: 13.751 min Scan# 3467
Delta R.T. 0.003 min
Lab File: VL040871.D
Acq: 15 Nov 2023 16:54

Tgt Ion: 95 Resp: 1746133
Ion Ratio Lower Upper
95 100
174 60.6 47.5 71.3
175 4.6 3.6 5.4

