

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040885.D
 Acq On : 16 Nov 2023 1:54
 Operator : SY/MD
 Sample : 05277-08 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-9

Quant Time: Nov 16 06:36:52 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

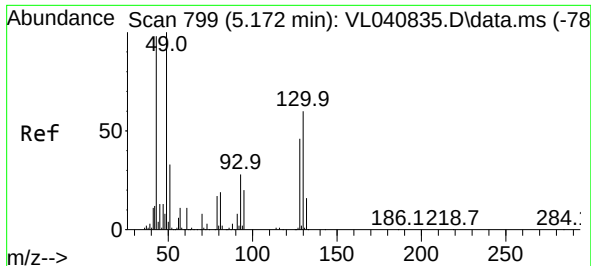
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.205	49	920925	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	6.655	114	2264902	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.449	117	2007624	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1588560	10.106	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.774	85	45049	0.241	ppbv	94
3) Chlorodifluoromethane	2.658	51	30718	0.209	ppbv #	58
11) Trichlorofluoromethane	3.597	101	16029	0.112	ppbv	92
13) Ethanol	3.275	45	166351	17.289	ppbv #	100
15) Acetone	3.504	43	447788	4.565	ppbv	98
16) 1,3-Butadiene	3.005	39	25990	0.524	ppbv #	24
17) tert-Butyl alcohol	3.925	59	3505	0.042	ppbv #	71
19) Isopropyl Alcohol	3.619	45	45461	0.770	ppbv #	84
20) Methylene Chloride	3.960	84	49541	1.224	ppbv	93
23) Vinyl Acetate	4.642	43	8233	0.065	ppbv #	45
25) Ethyl Acetate	5.227	43	122902	0.605	ppbv #	79
26) Hexane	5.227	57	170701	1.899	ppbv #	40
34) 2-Butanone	4.809	43	38728	0.336	ppbv	96
36) Benzene	6.378	78	30663	0.167	ppbv	97
37) 1,2-Dichloroethane	5.812	62	3438	0.032	ppbv #	83
38) Trichloroethene	7.295	130	2871	0.040	ppbv #	76
39) 1,2-Dichloropropane	6.655	63	597724	8.201	ppbv #	23
53) Toluene	9.208	91	54790	0.271	ppbv	97

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

Quant Time: Nov 16 06:36:52 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Mon Nov 13 15:42:46 2023
Response via : Initial Calibration

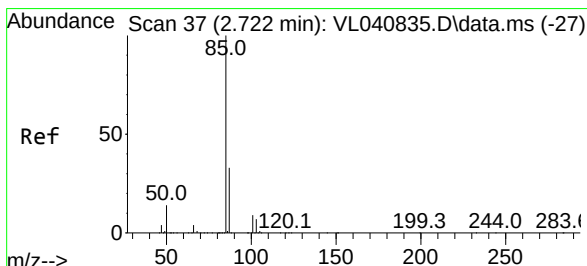
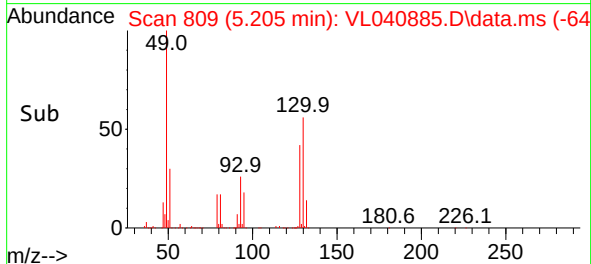
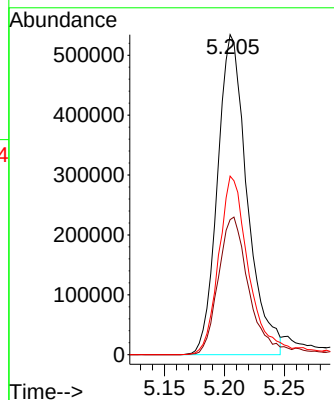
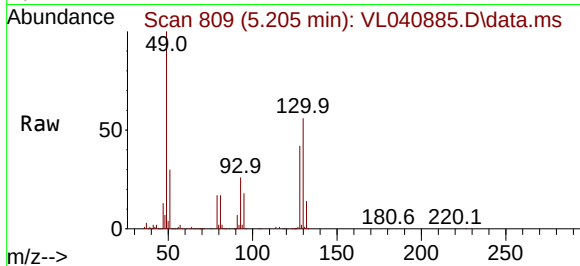




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.205 min Scan# 80
 Delta R.T. 0.033 min
 Lab File: VL040885.D
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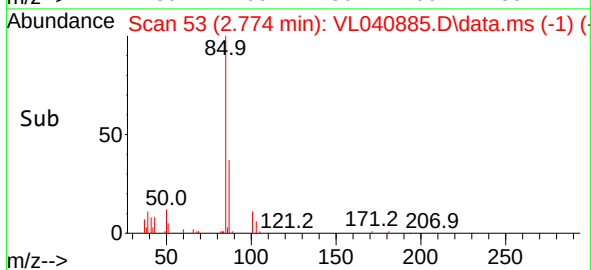
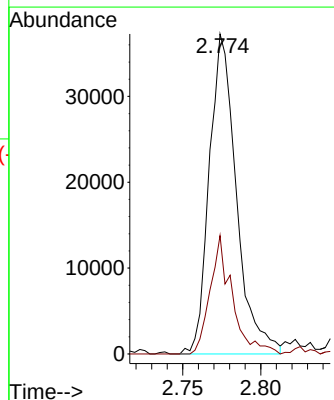
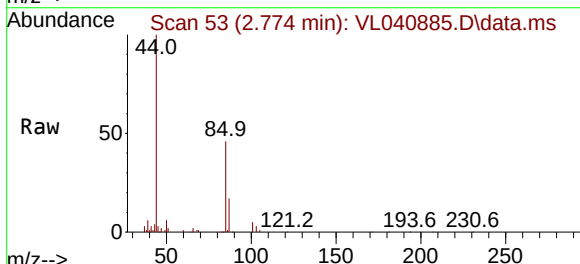
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-9

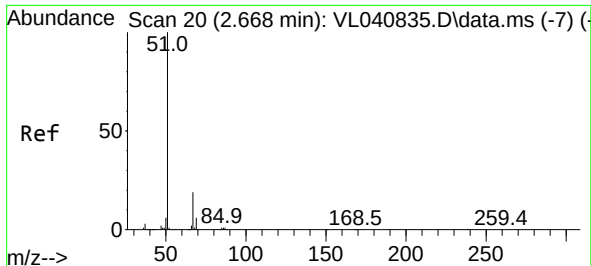
Tgt Ion: 49 Resp: 920925
 Ion Ratio Lower Upper
 49 100
 128 46.5 23.8 71.2
 130 58.4 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.241 ppbv
 RT: 2.774 min Scan# 53
 Delta R.T. 0.051 min
 Lab File: VL040885.D
 Acq: 16 Nov 2023 1:54

Tgt Ion: 85 Resp: 45049
 Ion Ratio Lower Upper
 85 100
 87 37.0 26.7 40.1

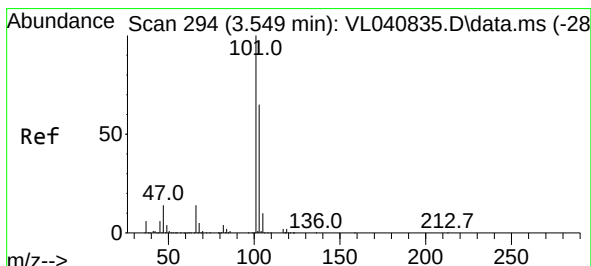
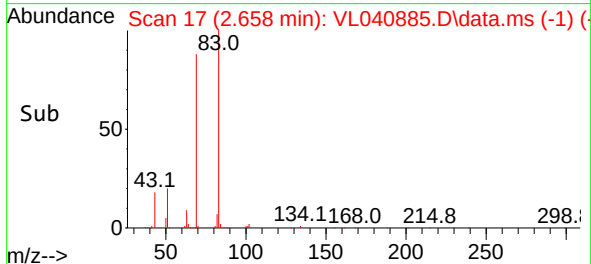
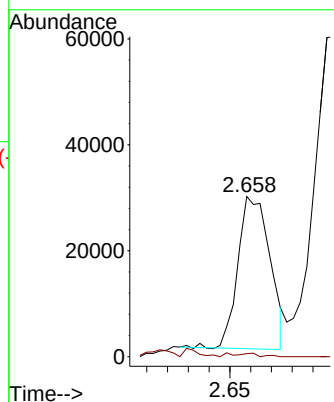
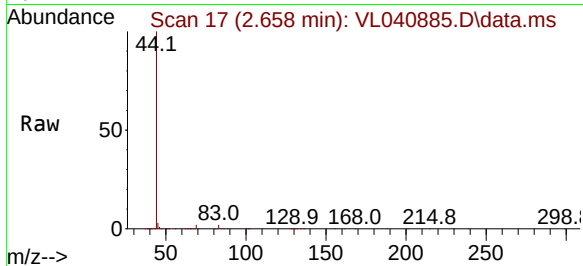




#3
Chlorodifluoromethane
Concen: 0.209 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

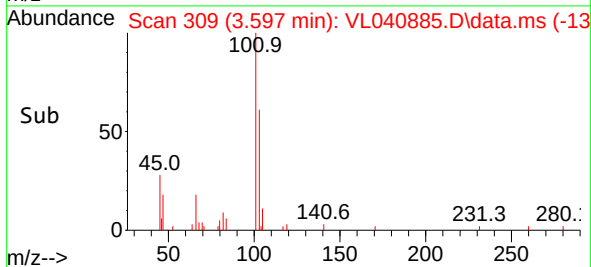
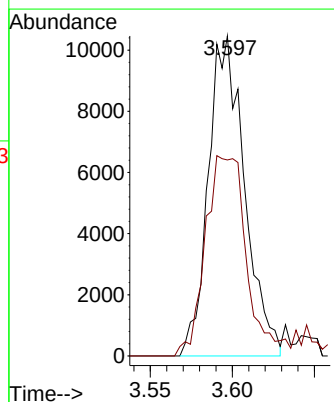
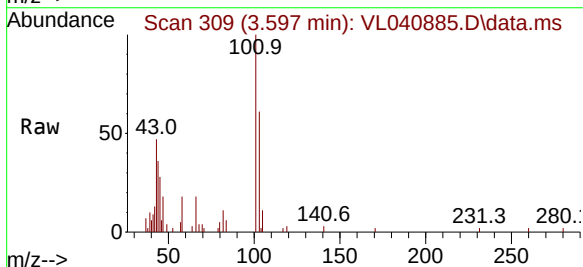
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-9

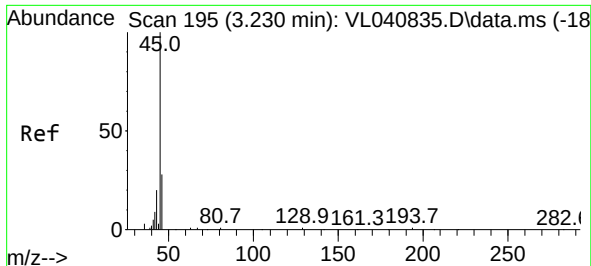
Tgt Ion: 51 Resp: 30718
Ion Ratio Lower Upper
51 100
67 0.0 15.0 22.4#



#11
Trichlorofluoromethane
Concen: 0.112 ppbv
RT: 3.597 min Scan# 309
Delta R.T. 0.048 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

Tgt Ion: 101 Resp: 16029
Ion Ratio Lower Upper
101 100
103 58.3 51.8 77.8

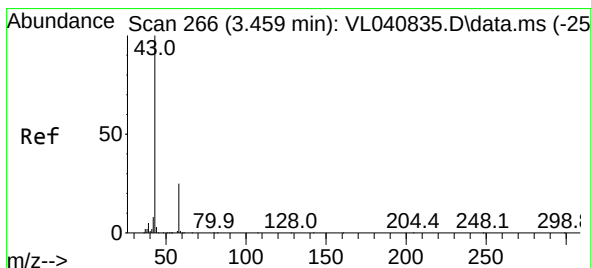
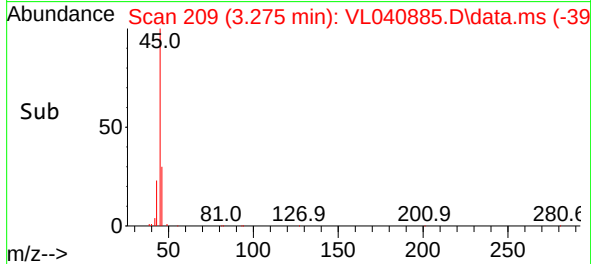
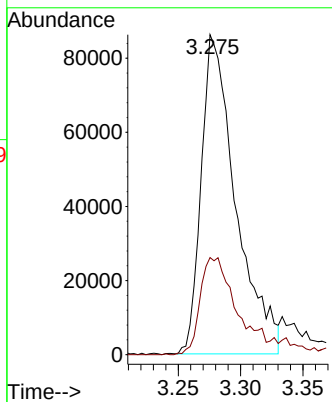
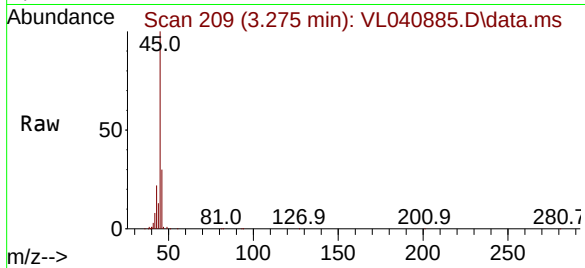




#13
 Ethanol
 Concen: 17.289 ppbv
 RT: 3.275 min Scan# 209
 Delta R.T. 0.045 min
 Lab File: VL040885.D
 Acq: 16 Nov 2023 1:54

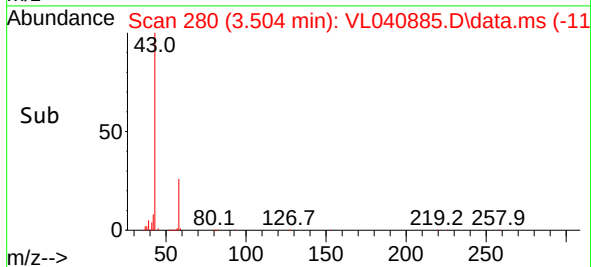
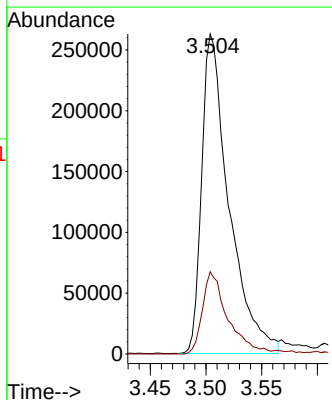
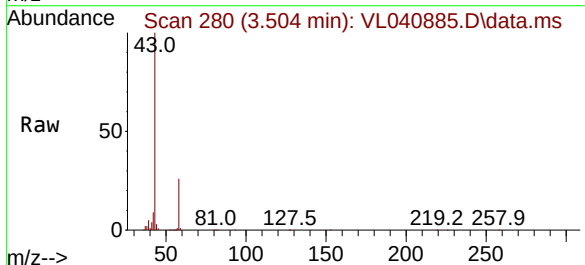
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-9

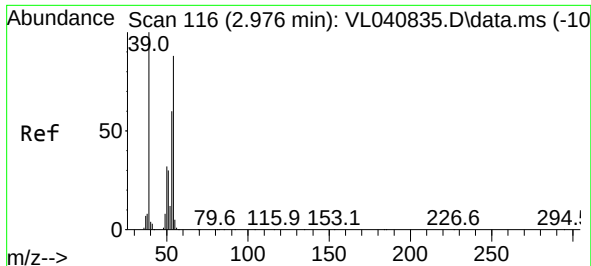
Tgt Ion: 45 Resp: 166351
 Ion Ratio Lower Upper
 45 100
 46 37.4 0.0 0.0#



#15
 Acetone
 Concen: 4.565 ppbv
 RT: 3.504 min Scan# 280
 Delta R.T. 0.045 min
 Lab File: VL040885.D
 Acq: 16 Nov 2023 1:54

Tgt Ion: 43 Resp: 447788
 Ion Ratio Lower Upper
 43 100
 58 24.9 20.9 31.3





#16

1,3-Butadiene

Concen: 0.524 ppbv

RT: 3.005 min Scan# 116

Delta R.T. 0.029 min

Lab File: VL040885.D

Acq: 16 Nov 2023 1:54

Instrument :

MSVOA_L

ClientSampleId :

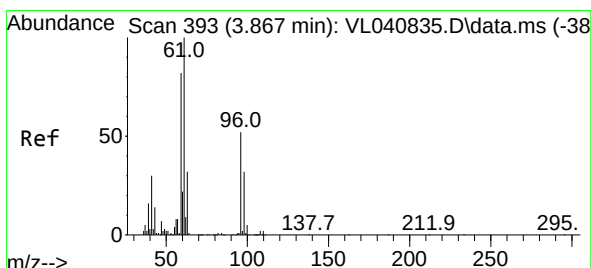
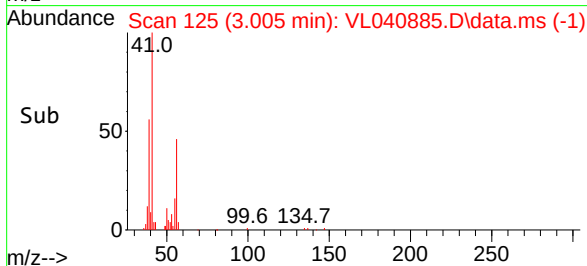
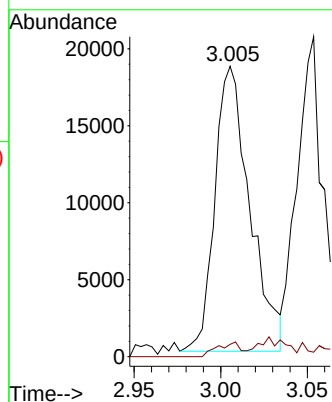
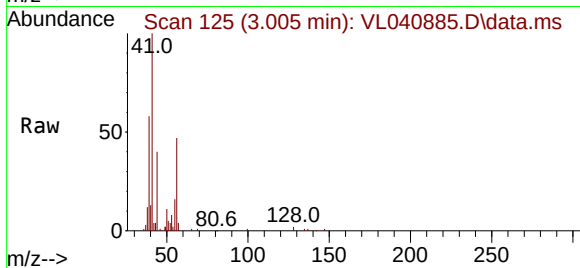
NT-SS-9

Tgt Ion: 39 Resp: 25990

Ion Ratio Lower Upper

39 100

54 11.4 61.8 92.6#



#17

tert-Butyl alcohol

Concen: 0.042 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.058 min

Lab File: VL040885.D

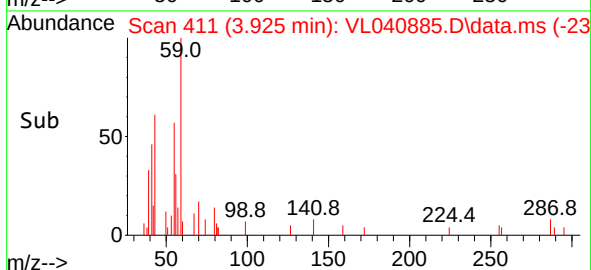
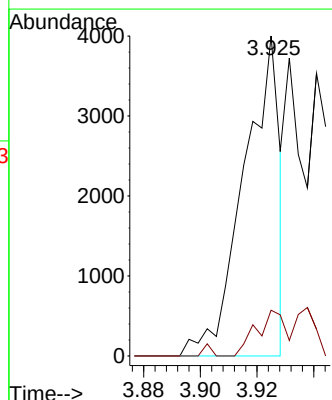
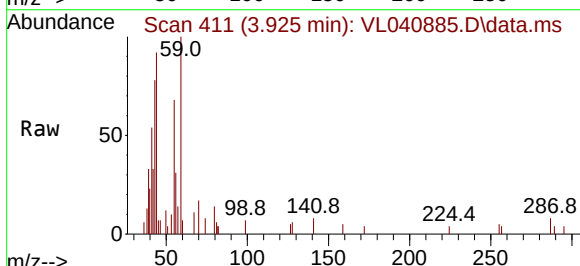
Acq: 16 Nov 2023 1:54

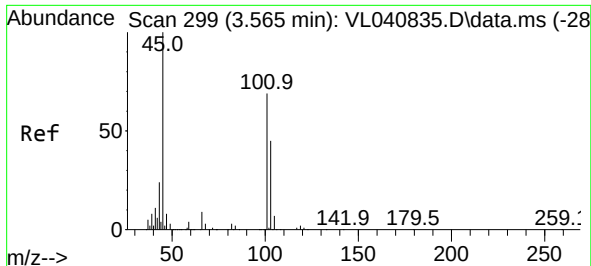
Tgt Ion: 59 Resp: 3505

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#





#19

Isopropyl Alcohol

Concen: 0.770 ppbv

RT: 3.619 min Scan# 316

Delta R.T. 0.055 min

Lab File: VL040885.D

Acq: 16 Nov 2023 1:54

Instrument :

MSVOA_L

ClientSampleId :

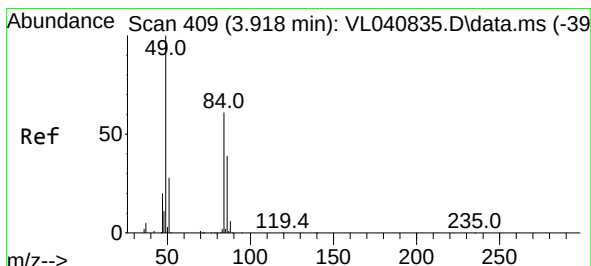
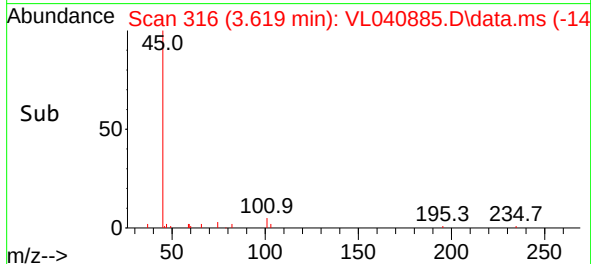
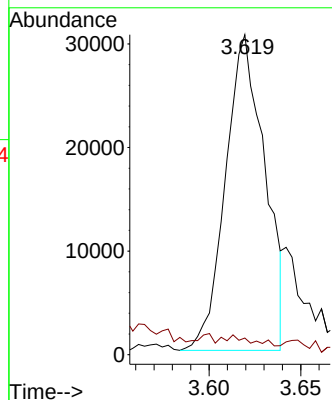
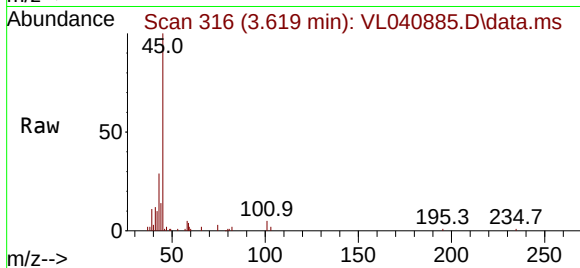
NT-SS-9

Tgt Ion: 45 Resp: 45461

Ion Ratio Lower Upper

45 100

58 7.7 1.6 2.4#



#20

Methylene Chloride

Concen: 1.224 ppbv

RT: 3.960 min Scan# 422

Delta R.T. 0.042 min

Lab File: VL040885.D

Acq: 16 Nov 2023 1:54

Tgt Ion: 84 Resp: 49541

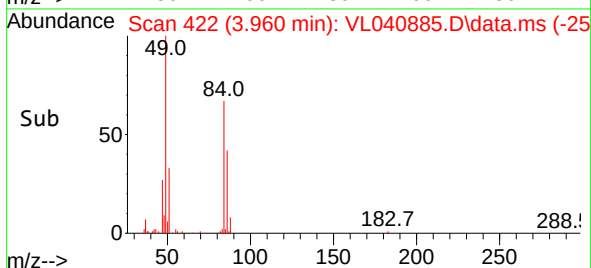
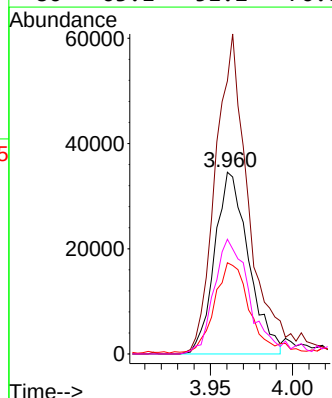
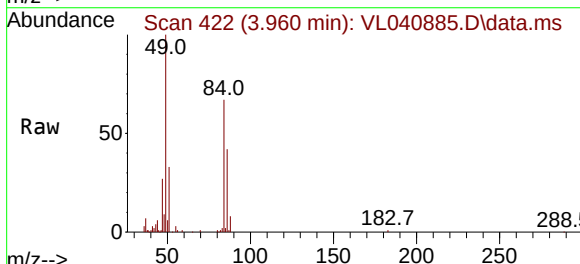
Ion Ratio Lower Upper

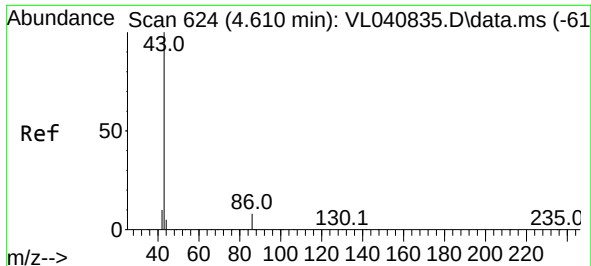
84 100

49 150.2 131.0 196.4

51 49.2 36.9 55.3

86 63.1 51.2 76.8

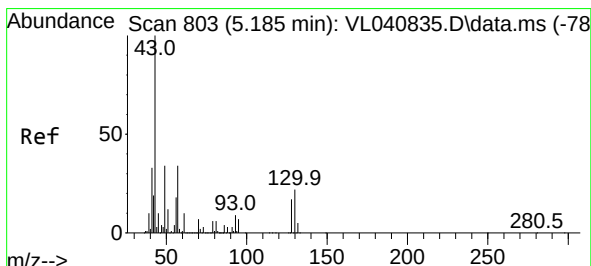
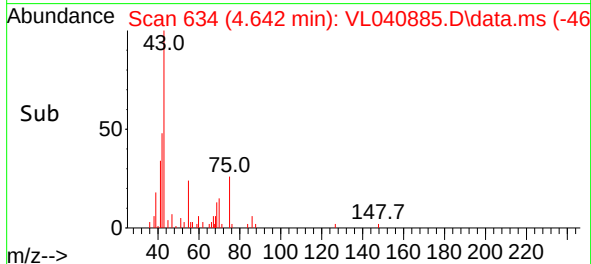
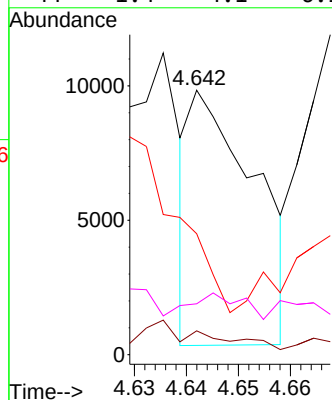
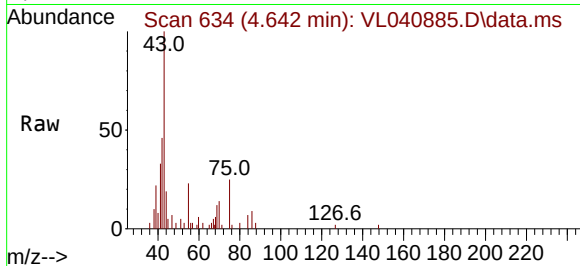




#23
 Vinyl Acetate
 Concen: 0.065 ppbv
 RT: 4.642 min Scan# 61
 Delta R.T. 0.032 min
 Lab File: VL040885.D
 Acq: 16 Nov 2023 1:54

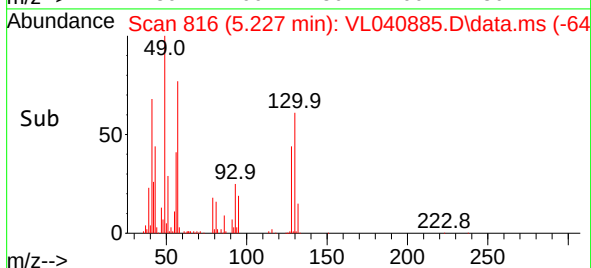
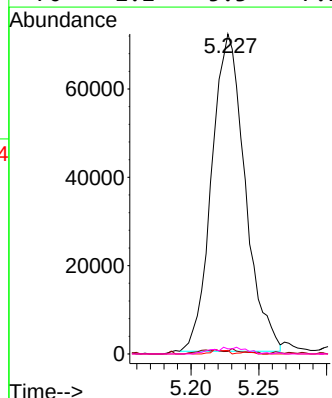
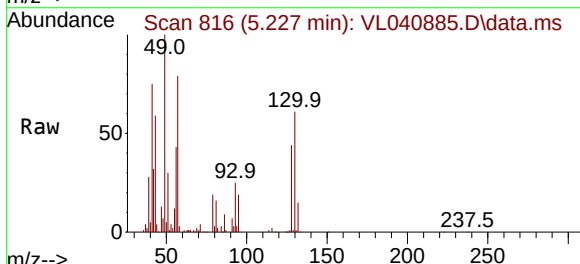
Instrument :
 MSVOA_1
 ClientSampleId :
 NT-SS-9

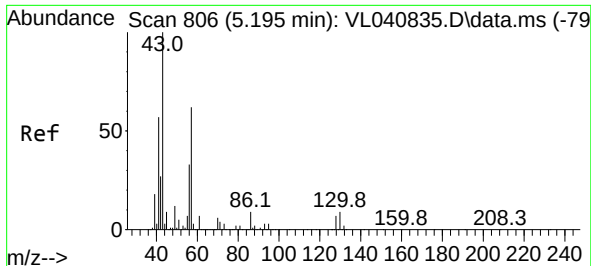
Tgt Ion: 43 Resp: 8233
 Ion Ratio Lower Upper
 43 100
 86 14.9 5.5 8.3#
 42 47.0 8.2 12.2#
 44 1.4 4.1 6.1#



#25
 Ethyl Acetate
 Concen: 0.605 ppbv
 RT: 5.227 min Scan# 816
 Delta R.T. 0.042 min
 Lab File: VL040885.D
 Acq: 16 Nov 2023 1:54

Tgt Ion: 43 Resp: 122902
 Ion Ratio Lower Upper
 43 100
 45 1.6 8.1 12.1#
 61 0.9 7.8 11.6#
 70 2.2 5.3 7.9#

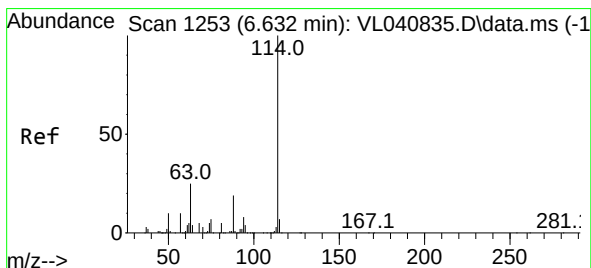
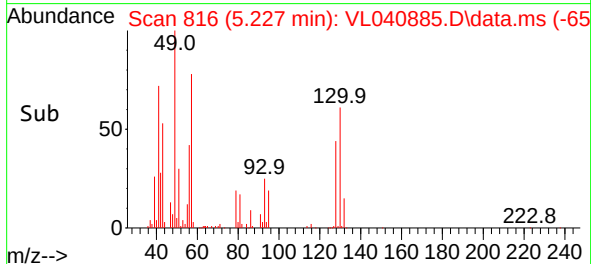
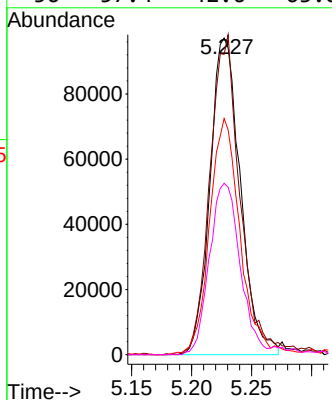
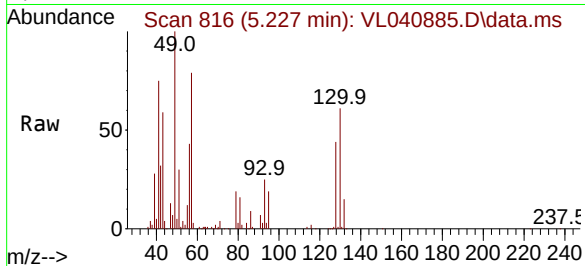




#26
Hexane
Concen: 1.899 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.032 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

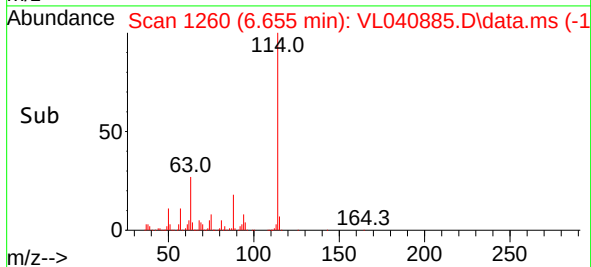
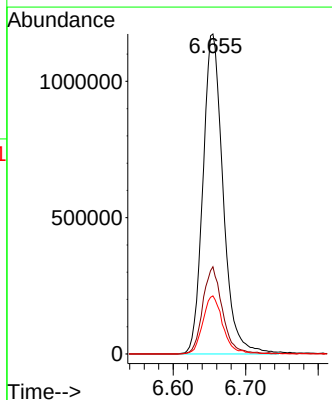
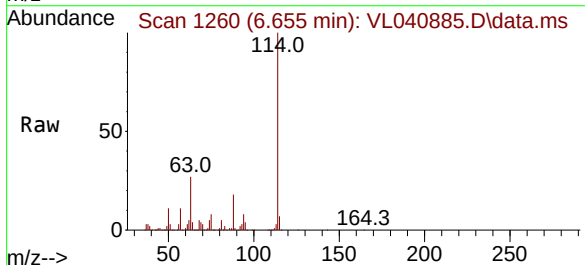
Instrument :
MSVOA_L
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NT-SS-9

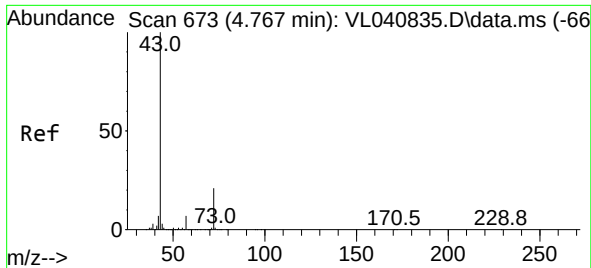
Tgt Ion: 57 Resp: 170701
Ion Ratio Lower Upper
57 100
41 102.3 75.4 113.0
43 75.8 185.9 278.9#
56 57.4 42.6 63.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. 0.023 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

Tgt Ion: 114 Resp: 2264902
Ion Ratio Lower Upper
114 100
63 26.8 20.9 31.3
88 18.1 14.3 21.5

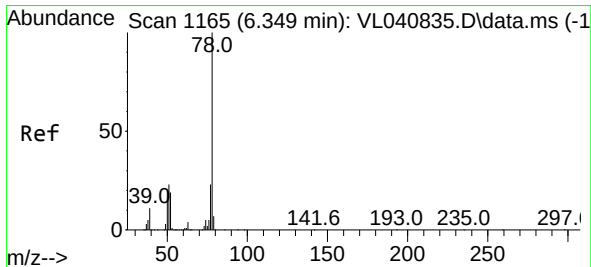
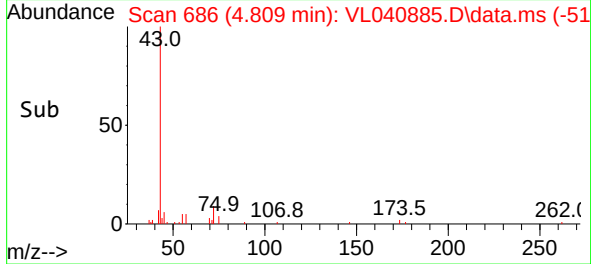
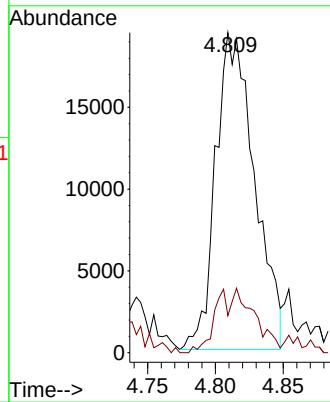
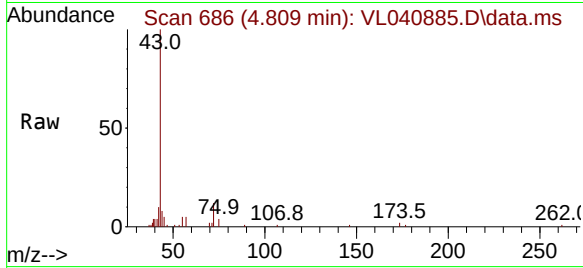




#34
2-Butanone
Concen: 0.336 ppbv
RT: 4.809 min Scan# 61
Delta R.T. 0.042 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

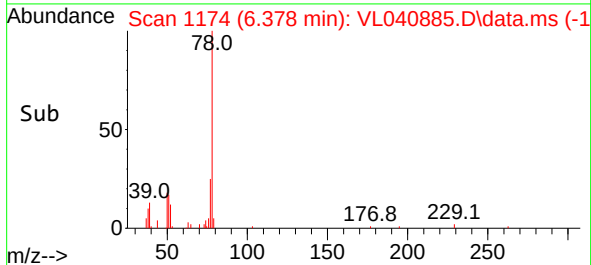
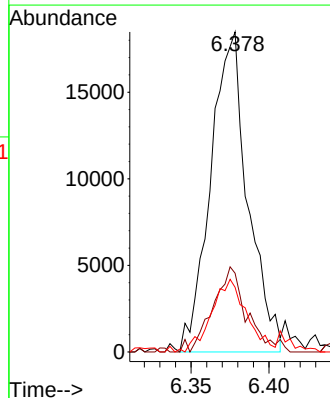
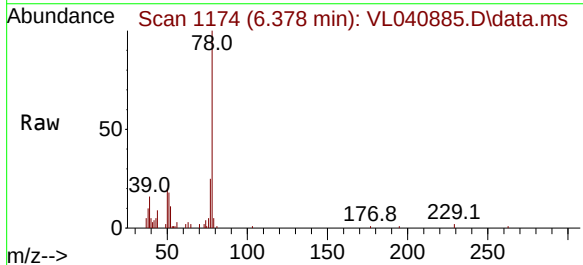
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-9

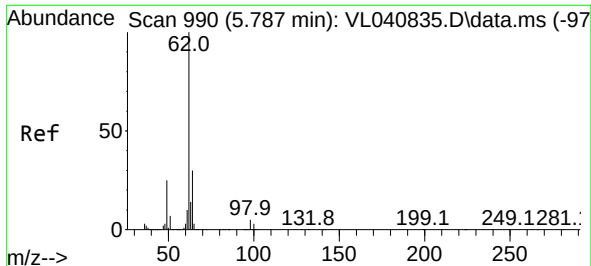
Tgt Ion: 43 Resp: 38728
Ion Ratio Lower Upper
43 100
72 23.5 17.2 25.8



#36
Benzene
Concen: 0.167 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.029 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

Tgt Ion: 78 Resp: 30663
Ion Ratio Lower Upper
78 100
77 24.6 18.4 27.6
50 19.3 16.2 24.2





#37

1,2-Dichloroethane

Concen: 0.032 ppbv

RT: 5.812 min Scan# 990

Delta R.T. 0.026 min

Lab File: VL040885.D

Acq: 16 Nov 2023 1:54

Instrument :

MSVOA_L

ClientSampleId :

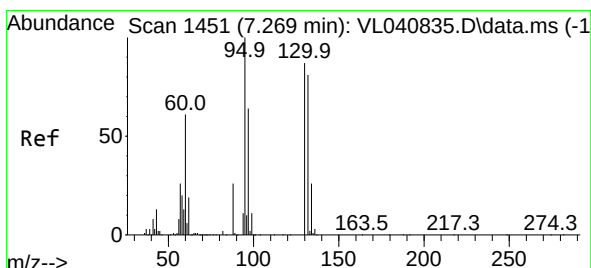
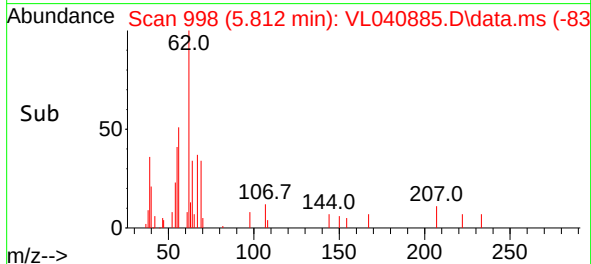
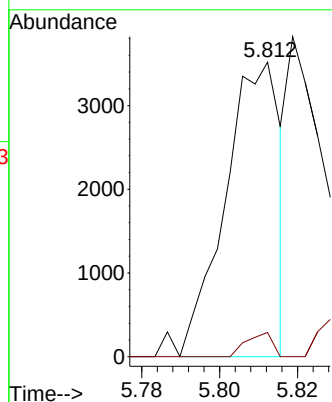
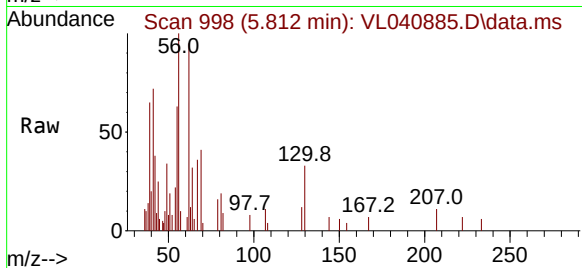
NT-SS-9

Tgt Ion: 62 Resp: 3438

Ion Ratio Lower Upper

62 100

98 0.0 4.6 6.8#



#38

Trichloroethene

Concen: 0.040 ppbv

RT: 7.295 min Scan# 1459

Delta R.T. 0.026 min

Lab File: VL040885.D

Acq: 16 Nov 2023 1:54

Tgt Ion:130 Resp: 2871

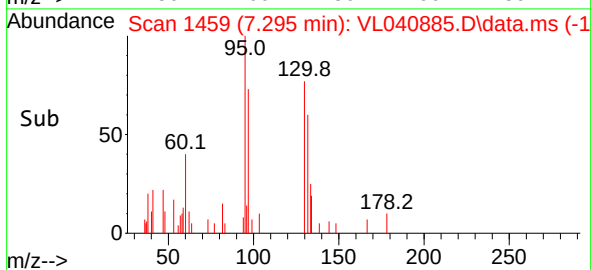
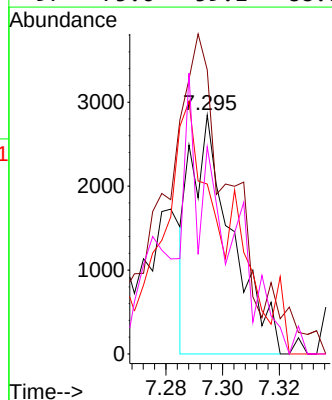
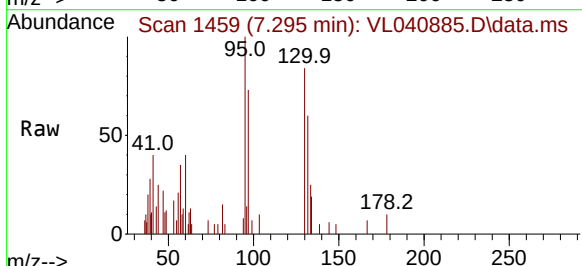
Ion Ratio Lower Upper

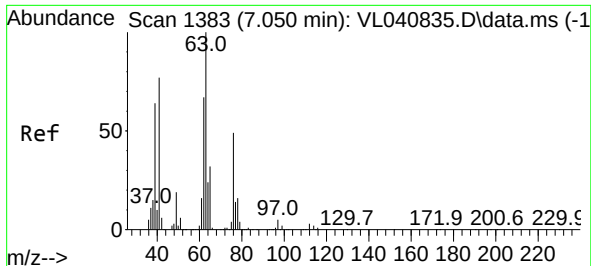
130 100

95 104.2 92.4 138.6

132 38.7 75.1 112.7#

97 75.6 59.1 88.7





#39

1,2-Dichloropropane

Concen: 8.201 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.395 min

Lab File: VL040885.D

Acq: 16 Nov 2023 1:54

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-9

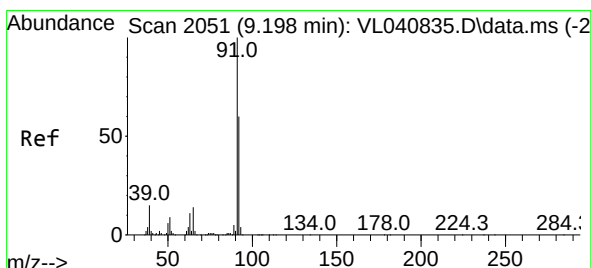
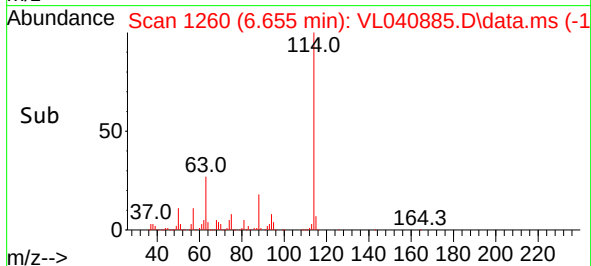
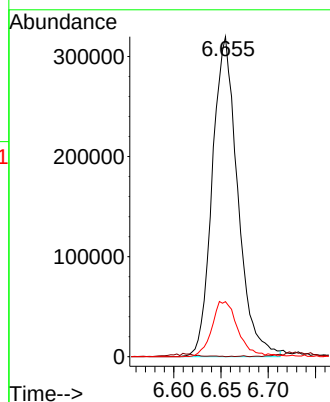
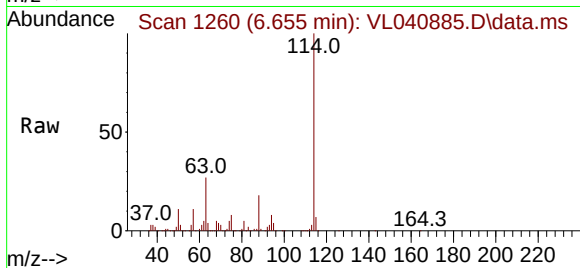
Tgt Ion: 63 Resp: 597724

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 17.2 53.9 80.9#



#53

Toluene

Concen: 0.271 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. 0.010 min

Lab File: VL040885.D

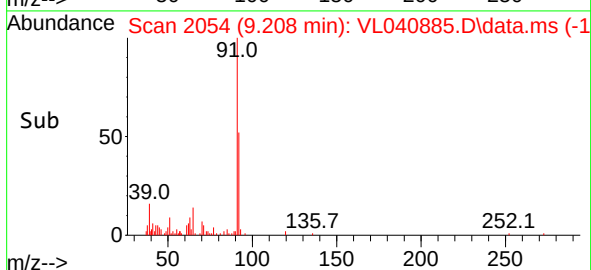
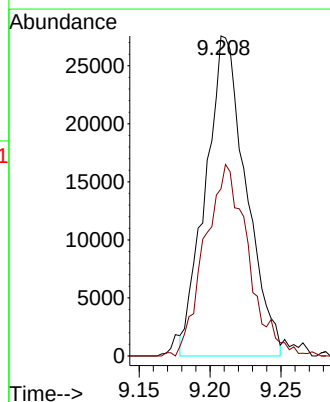
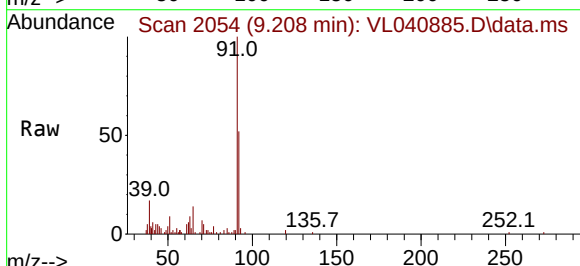
Acq: 16 Nov 2023 1:54

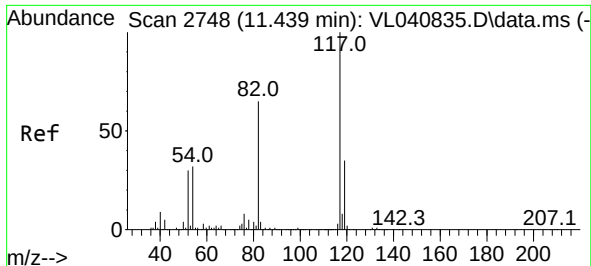
Tgt Ion: 91 Resp: 54790

Ion Ratio Lower Upper

91 100

92 64.2 49.4 74.2

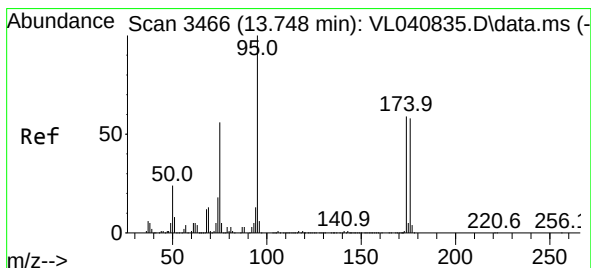
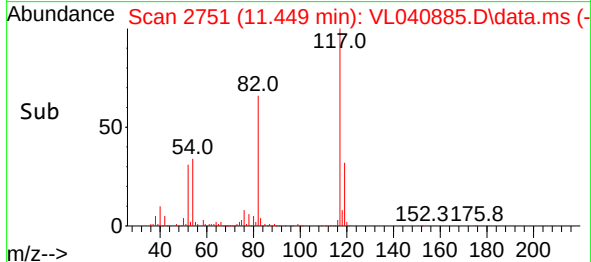
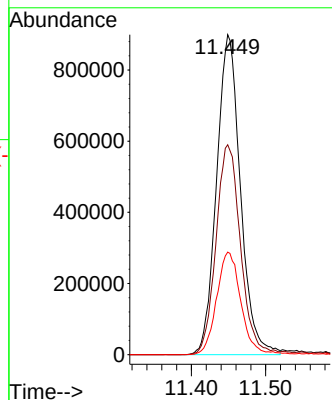
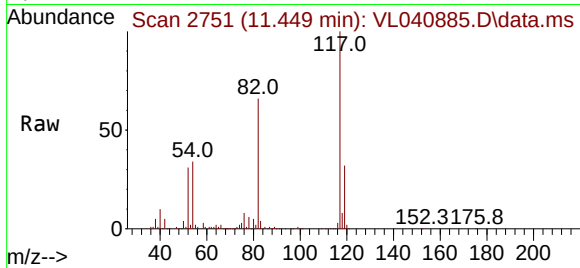




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-9

Tgt Ion:117 Resp: 2007624
Ion Ratio Lower Upper
117 100
82 69.0 50.6 75.8
119 33.3 23.3 34.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.106 ppbv
RT: 13.757 min Scan# 3469
Delta R.T. 0.010 min
Lab File: VL040885.D
Acq: 16 Nov 2023 1:54

Tgt Ion: 95 Resp: 1588560
Ion Ratio Lower Upper
95 100
174 59.6 47.5 71.3
175 4.4 3.6 5.4

