

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051322\
 Data File : VL039064.D
 Acq On : 14 May 2022 9:15
 Operator : SY/AP
 Sample : N2853-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1161-8.01-IA-1DL

Quant Time: May 16 01:36:20 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	921634	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2459104	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	2097091	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1576471	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

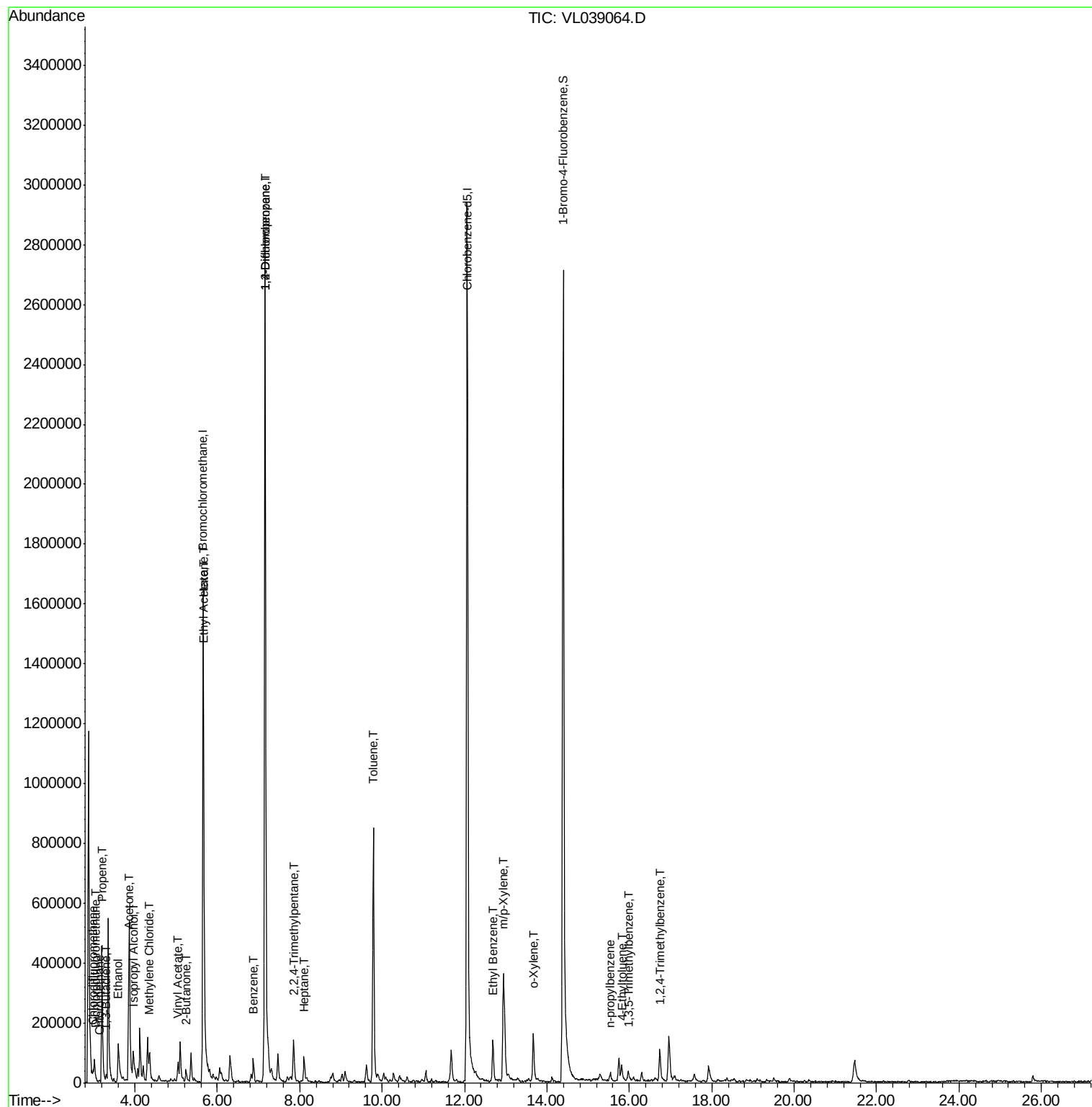
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	7565	0.052	ppbv	90
3) Chlorodifluoromethane	2.98	51	60315	0.527	ppbv #	81
4) Chloromethane	3.14	50	4363	0.076	ppbv #	84
9) Propene	3.20	41	151801	3.039	ppbv	99
10) Heptane	8.10	43	20736	0.169	ppbv #	14
13) Ethanol	3.59	45	86144	24.373	ppbv #	33
15) Acetone	3.84	43	227207	2.613	ppbv #	71
16) 1,3-Butadiene	3.30	39	2364	0.047	ppbv #	9
19) Isopropyl Alcohol	3.96	45	122842	2.972	ppbv #	98
20) Methylene Chloride	4.34	84	10153	0.310	ppbv #	78
23) Vinyl Acetate	5.06	43	8376	0.122	ppbv #	1
25) Ethyl Acetate	5.67	43	49057	0.236	ppbv #	85
26) Hexane	5.67	57	63709	0.689	ppbv #	44
34) 2-Butanone	5.24	43	49696	0.396	ppbv #	91
36) Benzene	6.87	78	60416	0.287	ppbv #	94
39) 1,2-Dichloropropane	7.16	63	604943	7.388	ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	135336	0.366	ppbv	93
53) Toluene	9.79	91	697665	2.958	ppbv	100
58) Ethyl Benzene	12.69	91	129798	0.430	ppbv	94
59) m/p-Xylene	12.96	91	196912	0.764	ppbv #	33
60) o-Xylene	13.67	91	130958	0.540	ppbv	94
64) n-propylbenzene	15.54	120	3215	0.037	ppbv #	1
72) 4-Ethyltoluene	15.82	105	17445	0.063	ppbv #	55
73) 1,3,5-Trimethylbenzene	15.97	105	13090	0.053	ppbv	89
74) 1,2,4-Trimethylbenzene	16.74	105	56301	0.207	ppbv #	65

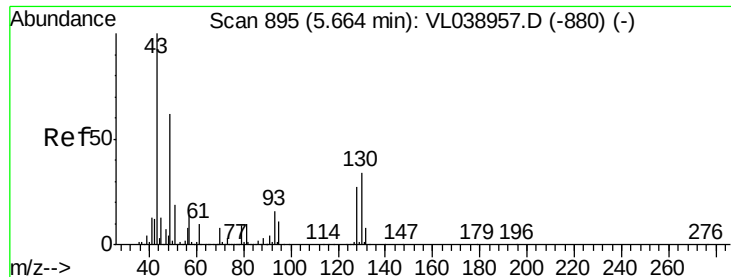
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051322\
Data File : VL039064.D
Acq On : 14 May 2022 9:15
Operator : SY/AP
Sample : N2853-01DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
1161-8.01-1A-1DL

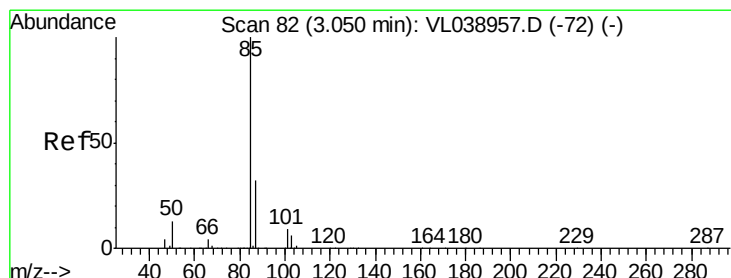
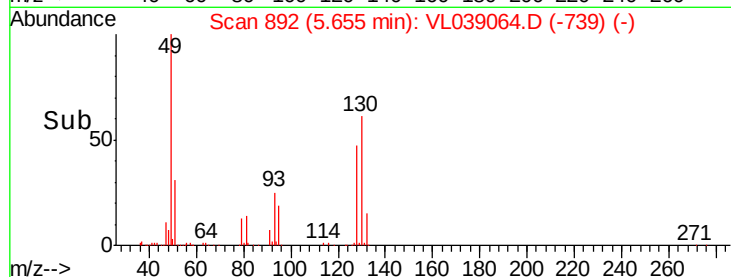
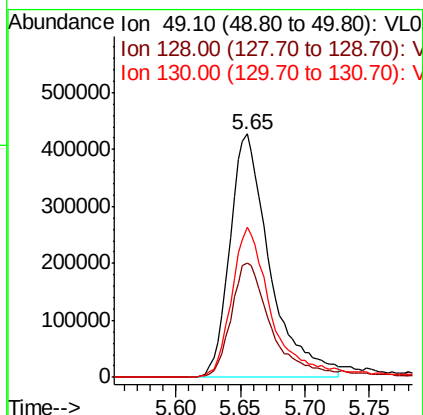
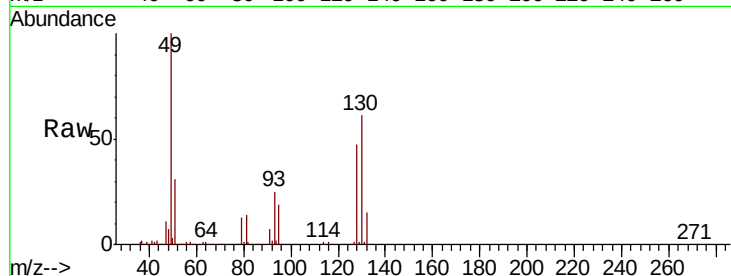
Quant Time: May 16 01:36:20 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 05 10:12:15 2022
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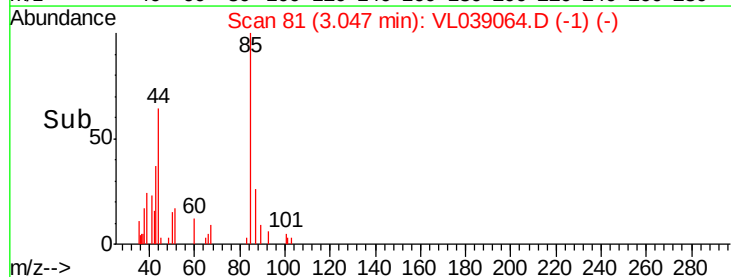
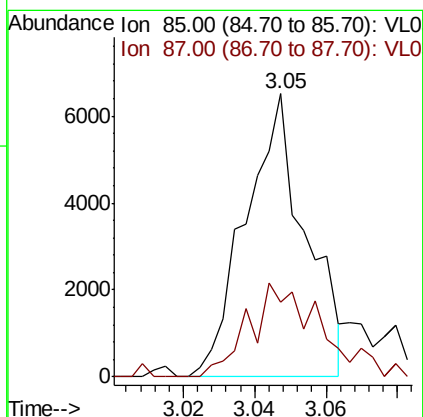
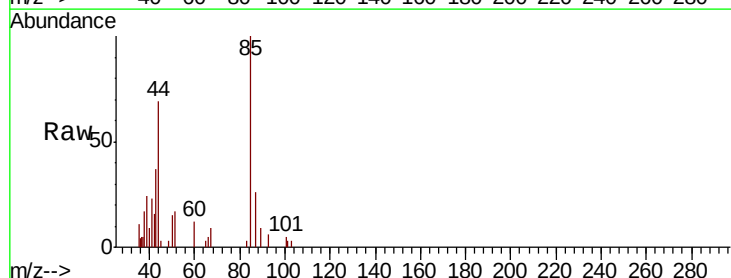
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 14 May 2022 9:15

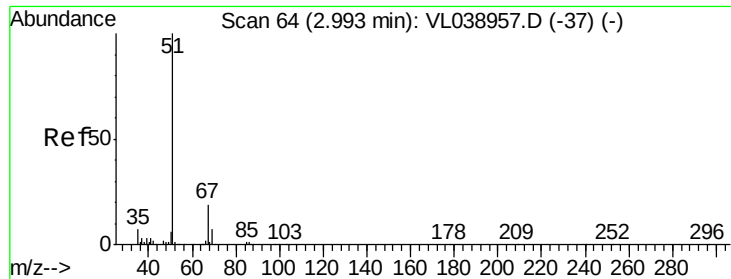
Tot Ion	49	Resp	921634
Ion Ratio	Lower	Upper	
49	100		
128	49.2	23.3	69.8
130	64.4	29.8	89.3



#2
 Dichlorodifluoromethane
 Concen: 0.052 ppbv
 RT: 3.05 min Scan# 81
 Delta R.T.: -0.00 min
 Lab File: VL039064.D
 Acq: 14 May 2022 9:15

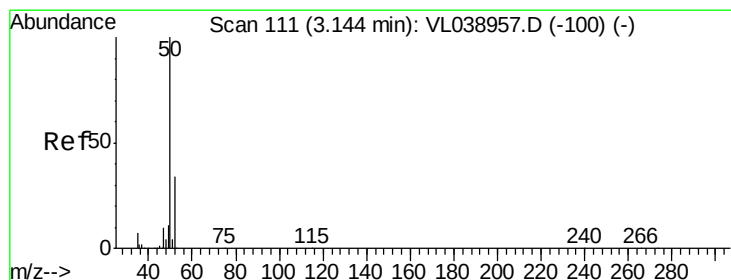
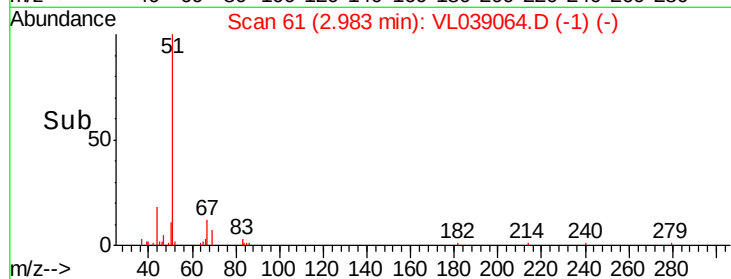
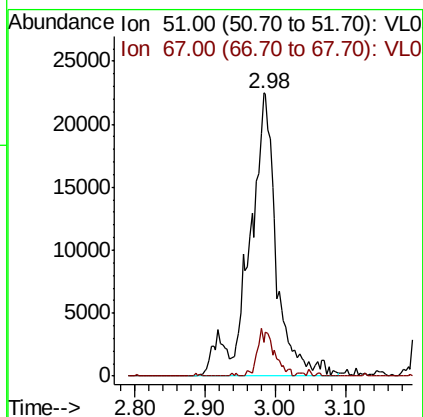
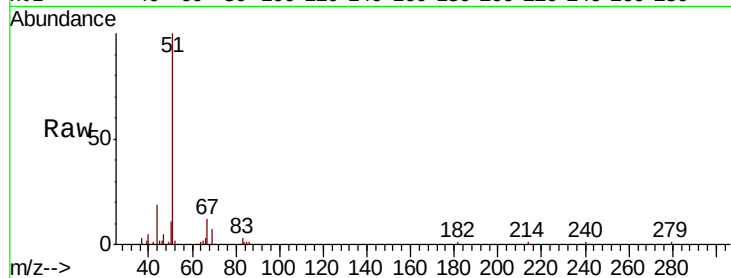
Tgt Ion	85	Resp	7565
Ion Ratio	Lower	Upper	
85	100		
87	26.4	25.7	38.5





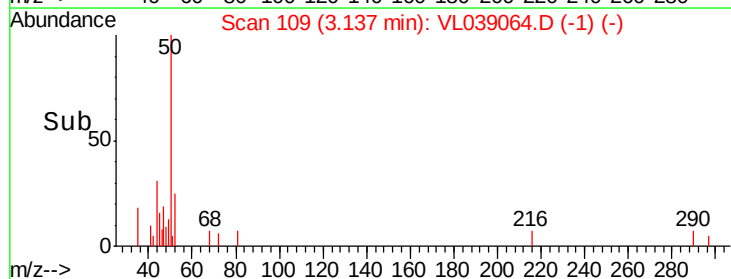
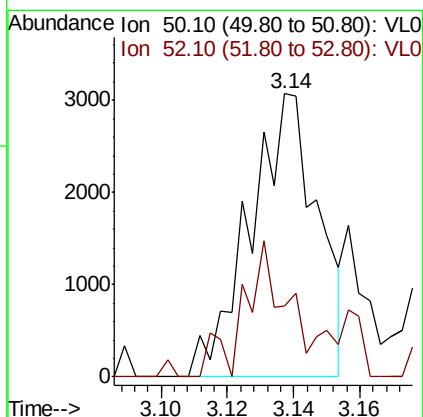
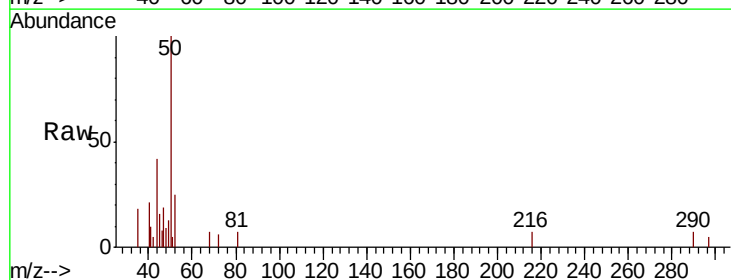
#3
Chlorodifluoromethane
Concen: 0.527 ppbv
RT: 2.98
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId : 1161-8.01-1A-1DL
Acq: 14 May 2022 9:15

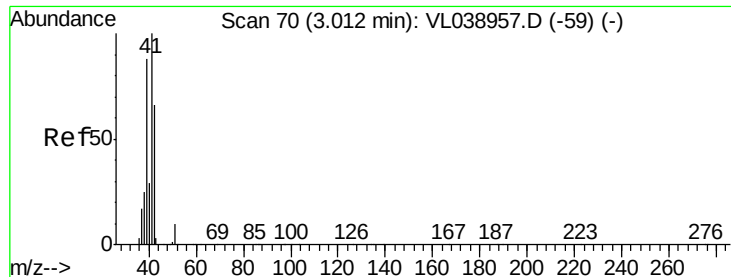
Tot Ion: 51 Resp: 60315
Ion Ratio Lower Upper
51 100
67 11.0 15.8 23.8#



#4
Chloromethane
Concen: 0.076 ppbv
RT: 3.14 min Scan# 109
Delta R.T. -0.01 min
Lab File: VL039064.D
Acq: 14 May 2022 9:15

Tgt Ion: 50 Resp: 4363
Ion Ratio Lower Upper
50 100
52 25.0 27.3 40.9#





#9

Propene

Concen: 3.039 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

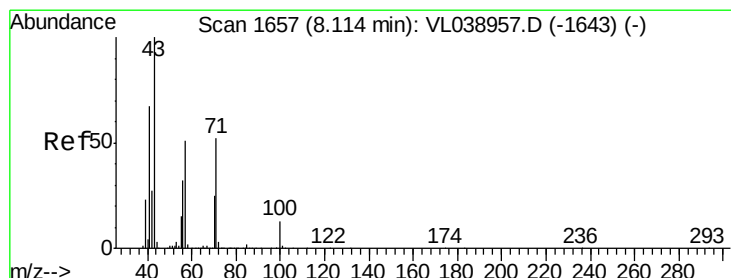
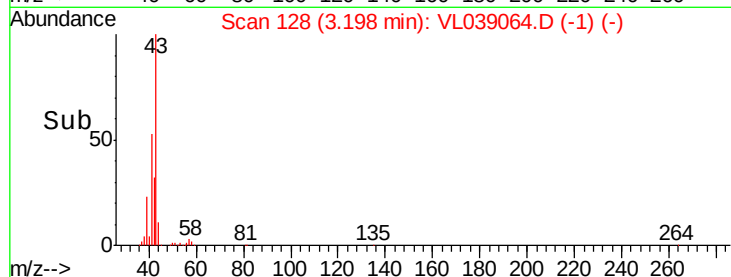
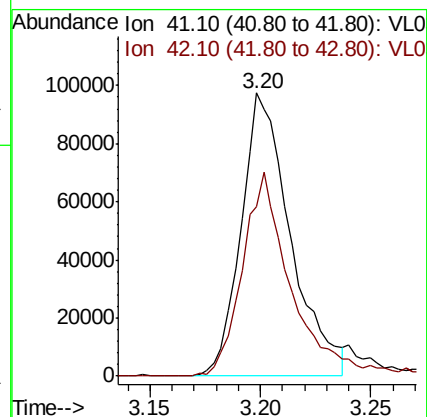
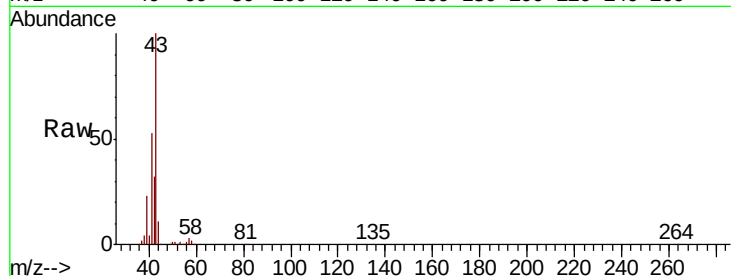
Acq: 14 May 2022 9:15

Tot Ion: 41 Resp: 151801

Ion Ratio Lower Upper

41 100

42 73.4 58.3 87.5



#10

Heptane

Concen: 0.169 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.01 min

Lab File: VL039064.D

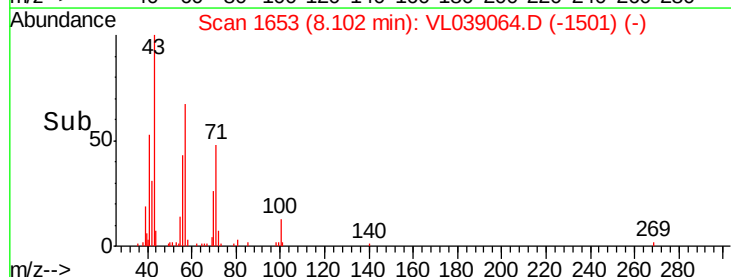
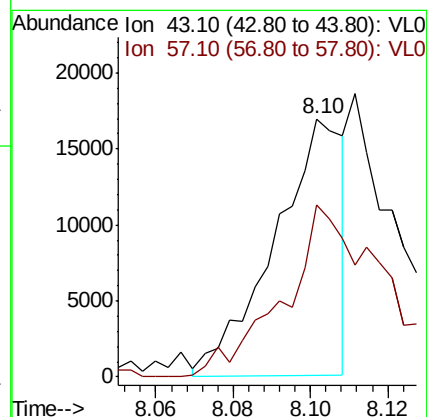
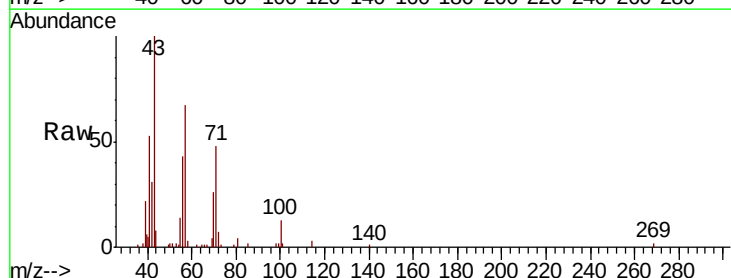
Acq: 14 May 2022 9:15

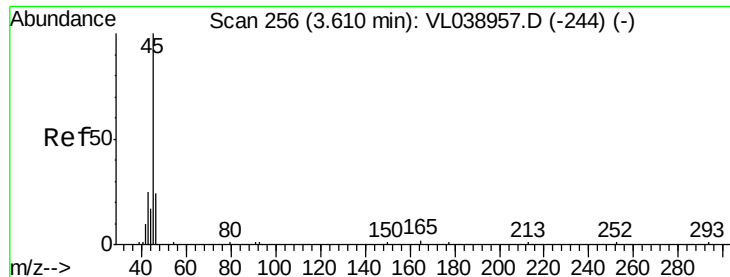
Tgt Ion: 43 Resp: 20736

Ion Ratio Lower Upper

43 100

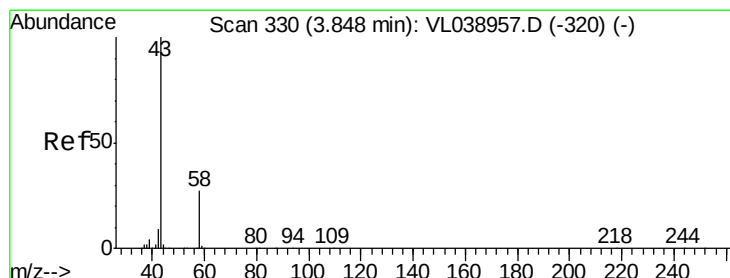
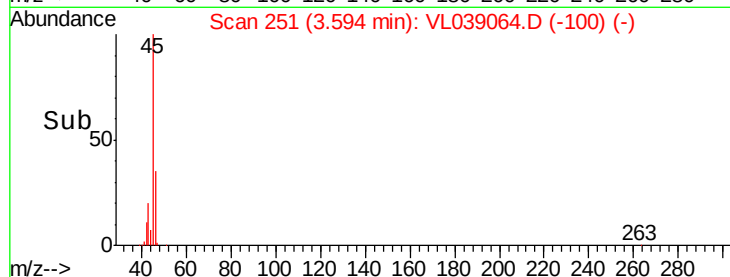
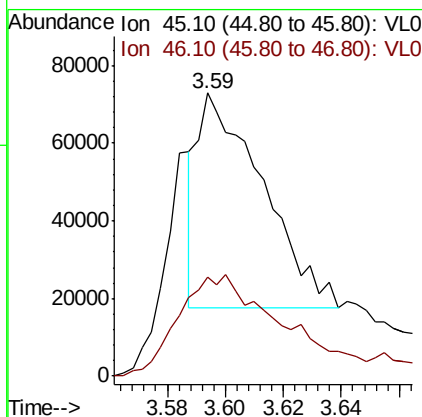
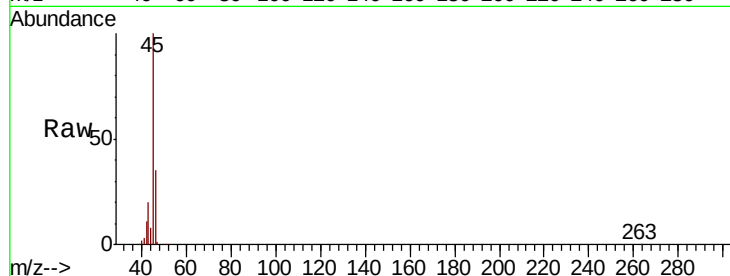
57 110.1 40.5 60.7#





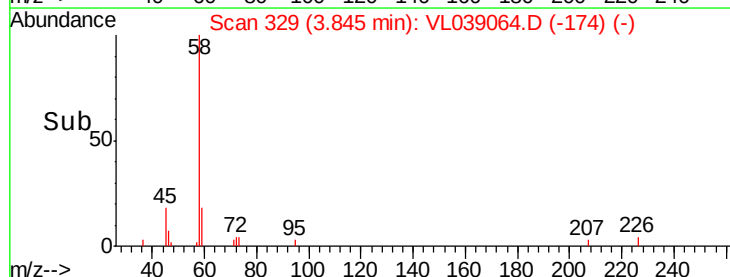
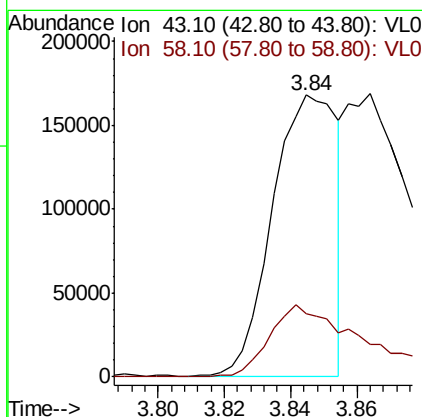
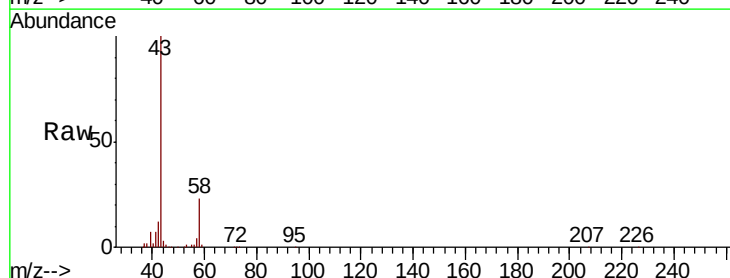
#13
Ethanol
Concen: 24.373 ppbv
RT: 3.59
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 14 May 2022 9:15

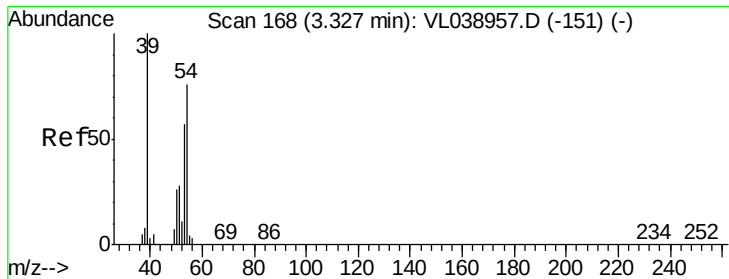
Tot Ion: 45 Resp: 86144
Ion Ratio Lower Upper
45 100
46 89.1 18.0 72.2#



#15
Acetone
Concen: 2.613 ppbv
RT: 3.84 min Scan# 329
Delta R.T.: -0.00 min
Lab File: VL039064.D
Acq: 14 May 2022 9:15

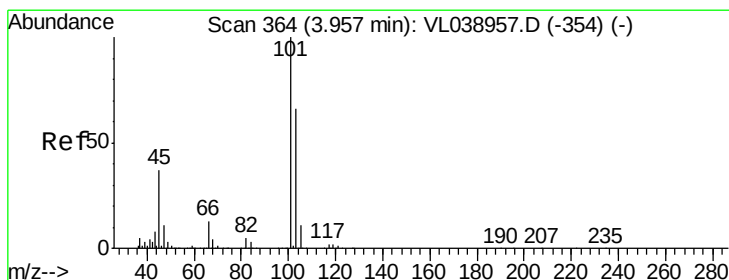
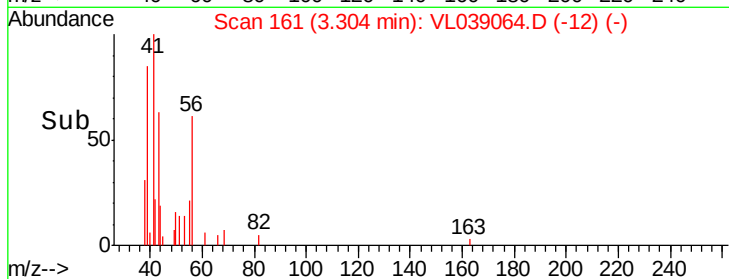
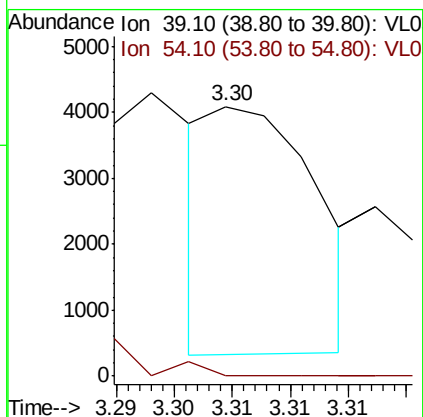
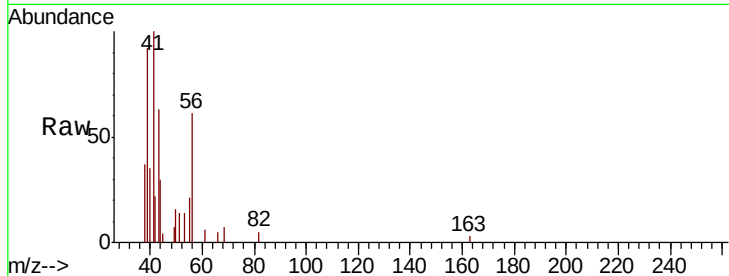
Tgt Ion: 43 Resp: 227207
Ion Ratio Lower Upper
43 100
58 41.8 21.3 31.9#





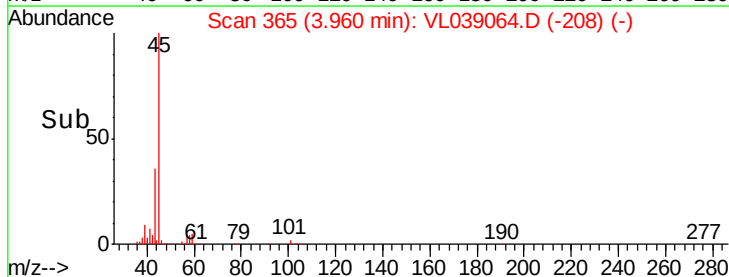
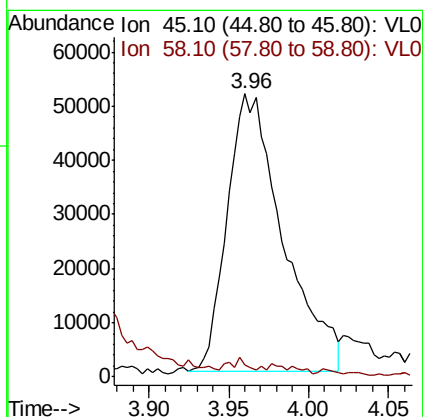
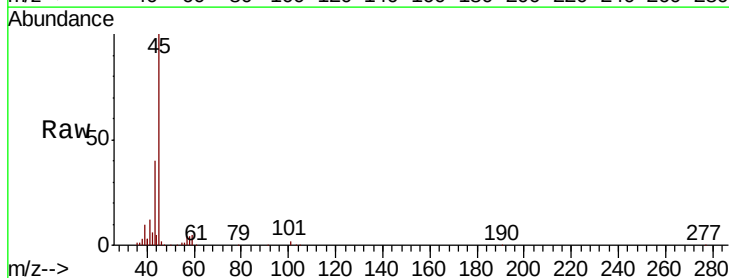
#16
 1,3-Butadiene
 Concen: 0.047 ppbv
 RT: 3.30
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 1161-8.01-1A-1DL
 Acq: 14 May 2022 9:15

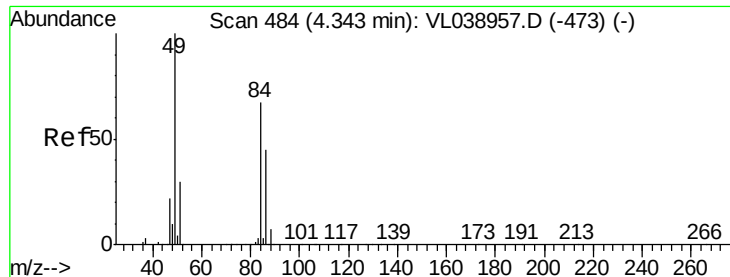
Tot Ion: 39 Resp: 2364
 Ion Ratio Lower Upper
 39 100
 54 0.0 65.2 97.8#



#19
 Isopropyl Alcohol
 Concen: 2.972 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VL039064.D
 Acq: 14 May 2022 9:15

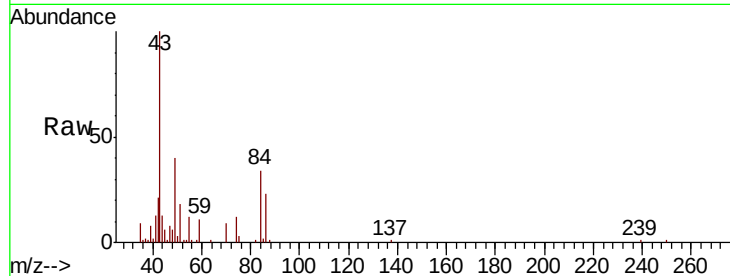
Tgt Ion: 45 Resp: 122842
 Ion Ratio Lower Upper
 45 100
 58 2.6 1.4 2.2#



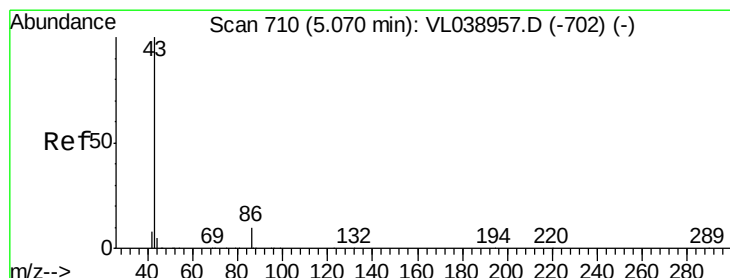
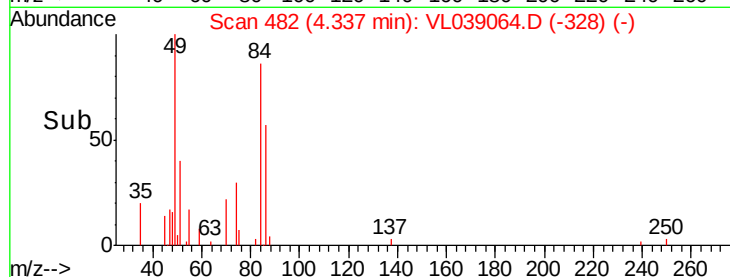
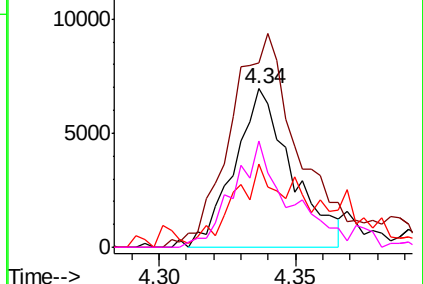


#20
Methvlene Chloride
Concen: 0.310 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 9:15

Tot Ion:	84	Resp:	10153
Ion	Ratio	Lower	Upper
84	100		
49	107.8	119.9	179.9#
51	50.1	35.7	53.5
86	63.4	53.8	80.6

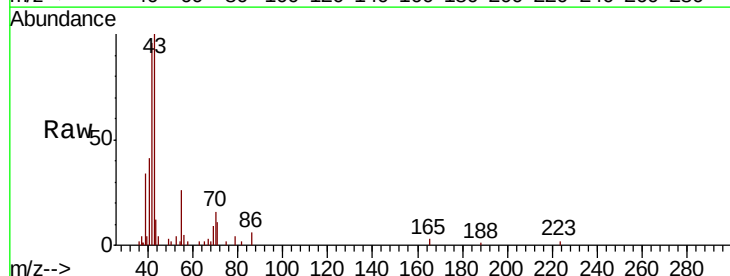


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

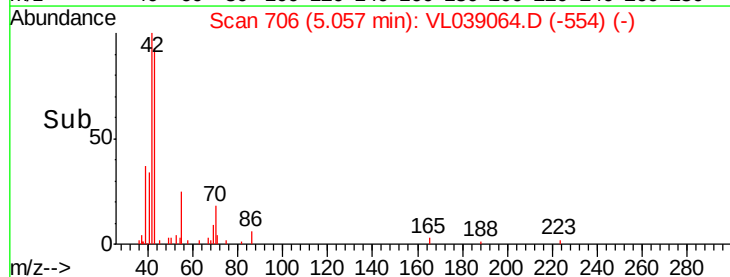
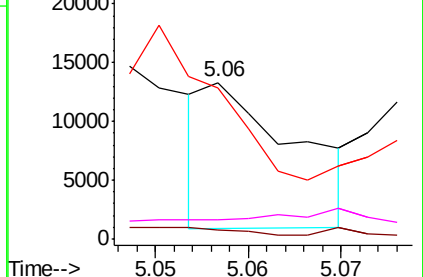


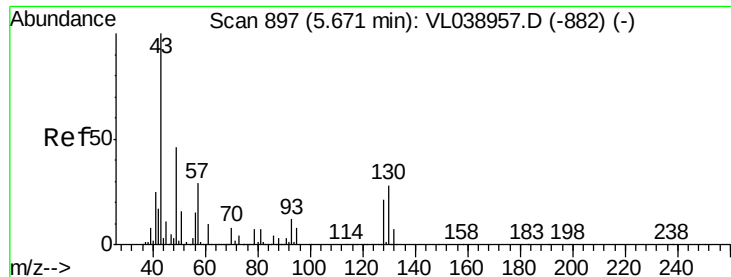
#23
Vinyl Acetate
Concen: 0.122 ppbv
RT: 5.06 min Scan# 706
Delta R.T. -0.01 min
Lab File: VL039064.D
Acq: 14 May 2022 9:15

Tgt Ion:	43	Resp:	8376
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	118.0	8.1	12.1#
44	0.1	3.5	5.3#



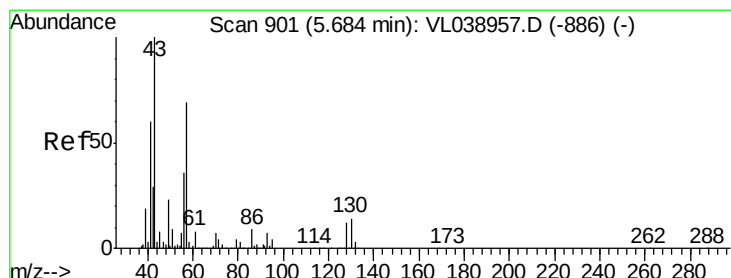
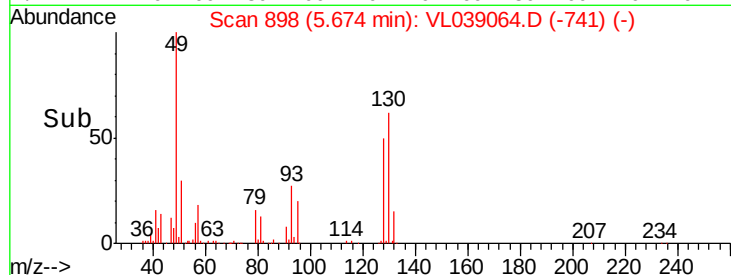
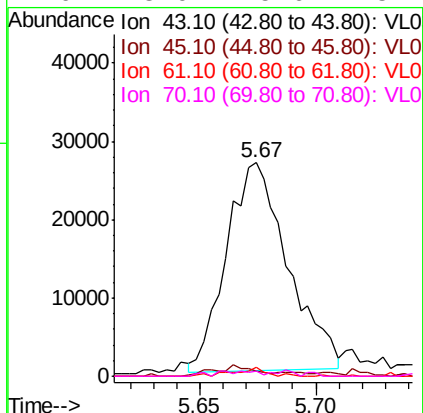
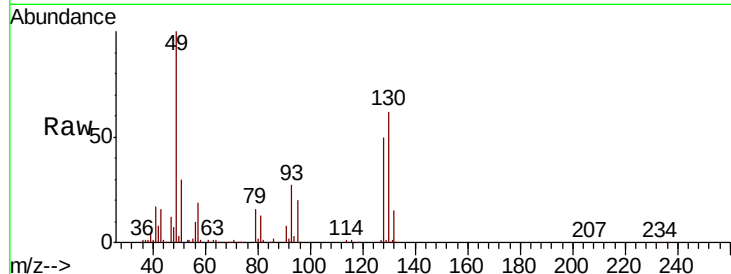
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





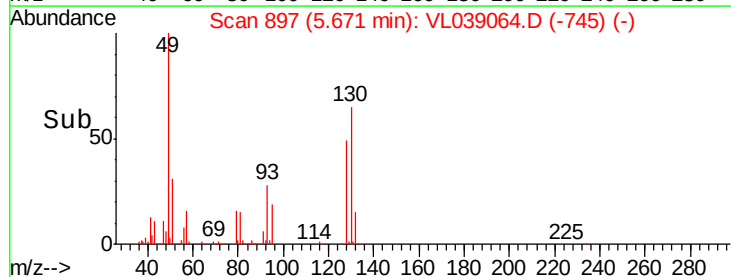
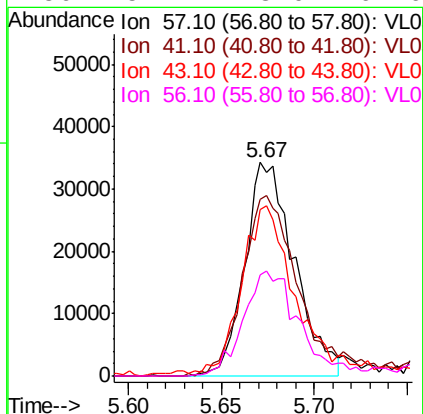
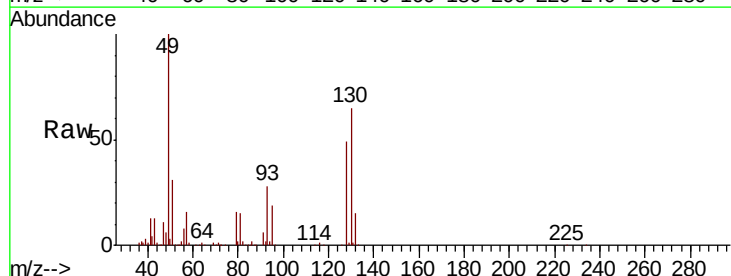
#25
Ethyl Acetate
Concen: 0.236 ppbv
RT: 5.67 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId : 1161-8.01-A-1DL
Acq: 14 May 2022 9:15

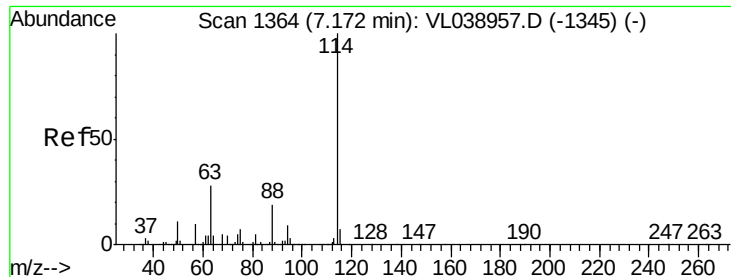
Tot Ion:	43	Resp:	49057
Ion	Ratio	Lower	Upper
43	100		
45	6.0	8.1	12.1#
61	2.2	7.8	11.6#
70	3.0	5.6	8.4#



#26
Hexane
Concen: 0.689 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL039064.D
Acq: 14 May 2022 9:15

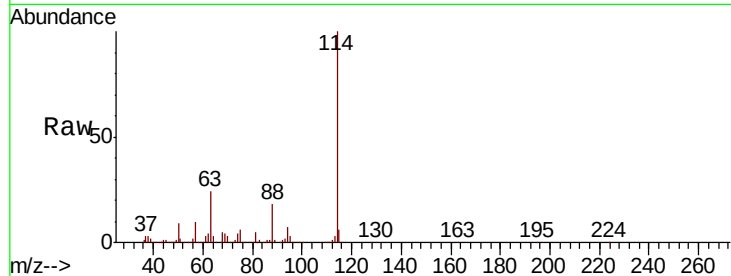
Tgt Ion:	57	Resp:	63709
Ion	Ratio	Lower	Upper
57	100		
41	98.7	75.2	112.8
43	90.1	190.8	286.2#
56	57.1	43.0	64.6



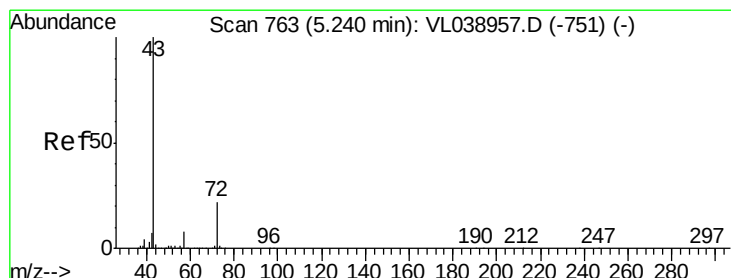
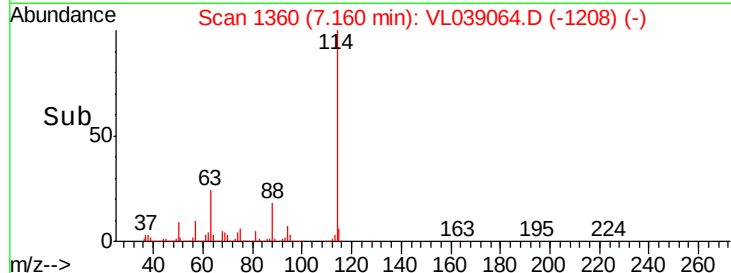
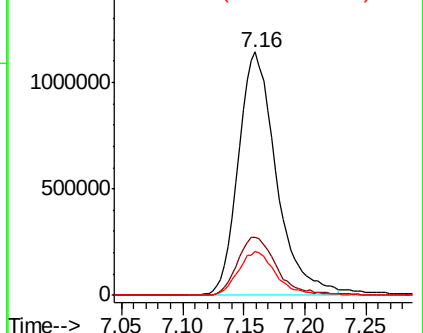


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 May 2022 9:15

Tot Ion:114 Resp: 2459104
 Ion Ratio Lower Upper
 114 100
 63 25.3 22.6 33.8
 88 18.3 15.4 23.0

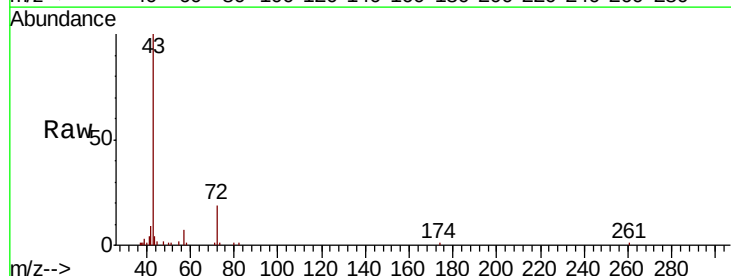


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

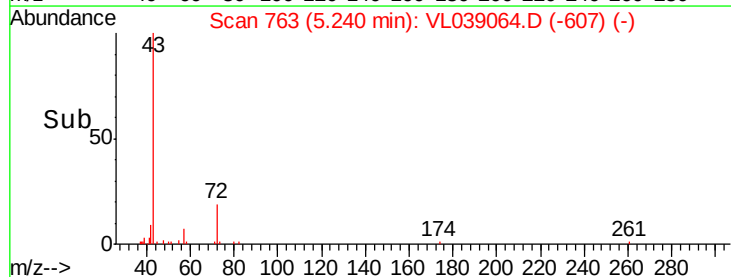
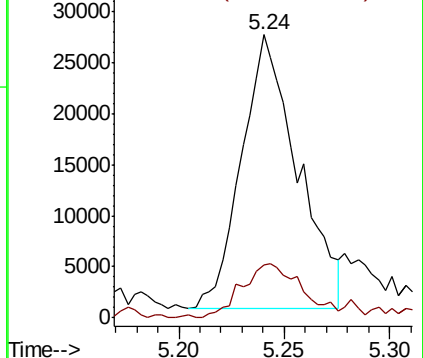


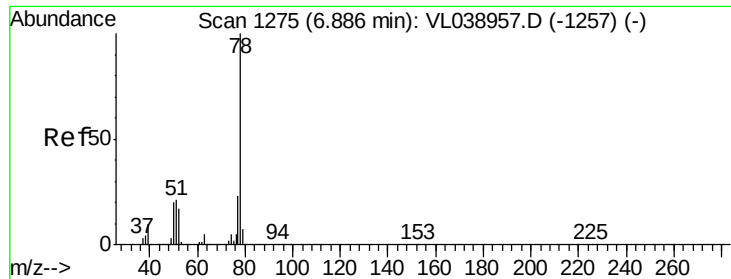
#34
 2-Butanone
 Concen: 0.396 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.00 min
 Lab File: VL039064.D
 Acq: 14 May 2022 9:15

Tgt Ion: 43 Resp: 49696
 Ion Ratio Lower Upper
 43 100
 72 26.6 17.8 26.6#



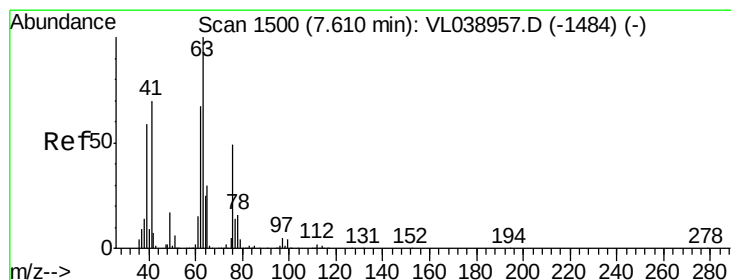
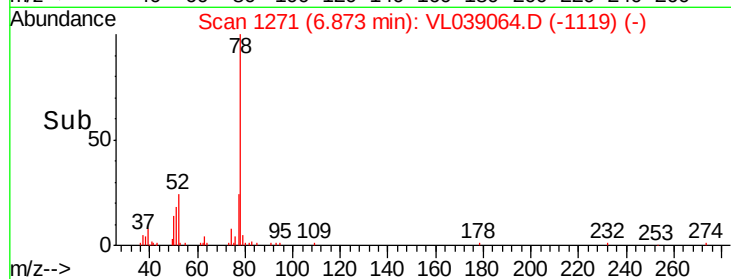
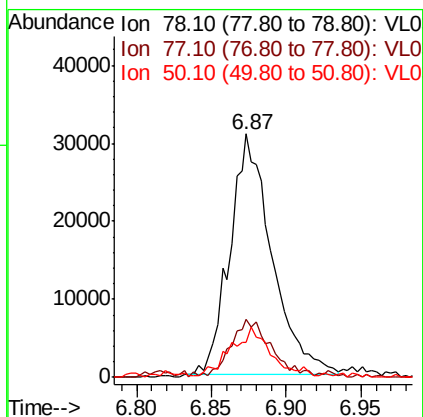
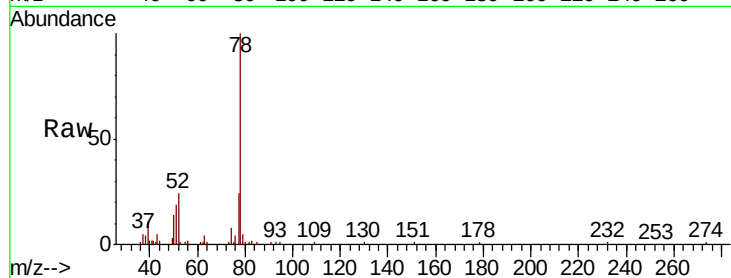
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





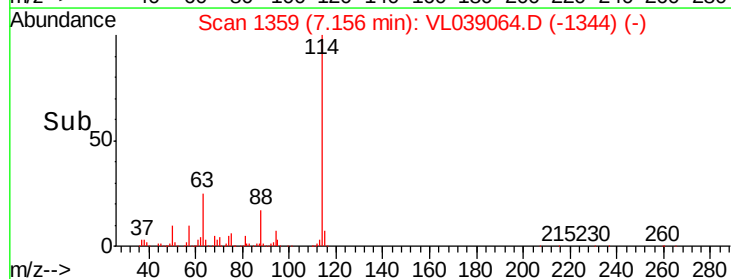
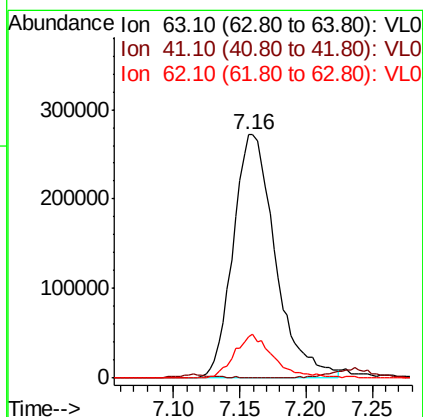
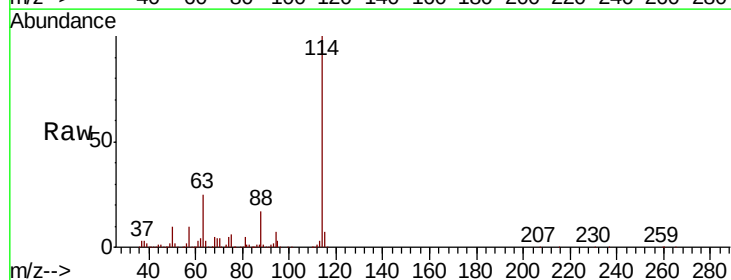
#36
Benzene
Concen: 0.287 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 May 2022 9:15

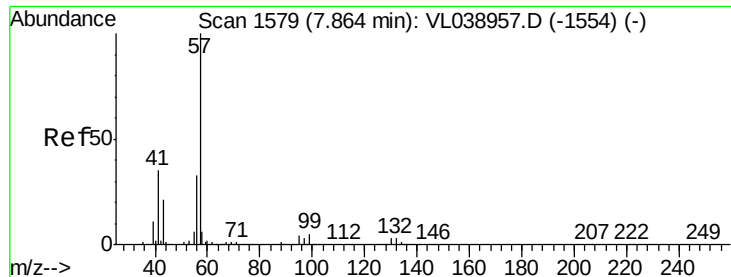
Tot Ion: 78 Resp: 60416
Ion Ratio Lower Upper
78 100
77 24.0 18.6 28.0
50 13.9 15.6 23.4#



#39
1,2-Dichloropropane
Concen: 7.388 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.45 min
Lab File: VL039064.D
Acq: 14 May 2022 9:15

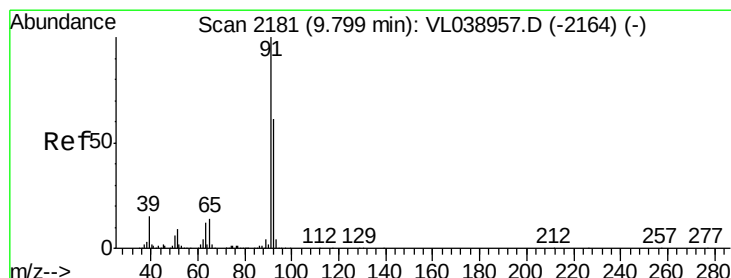
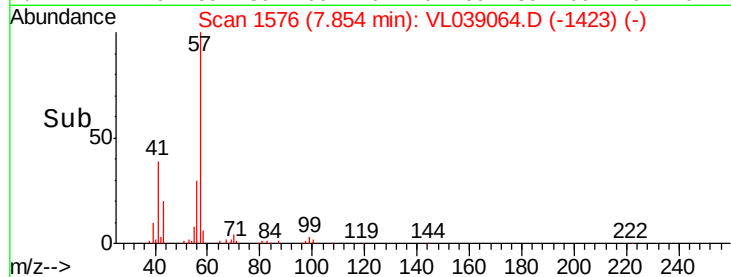
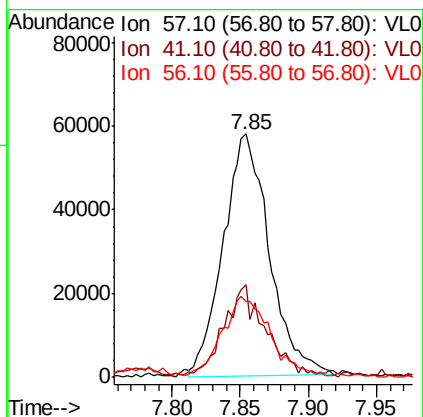
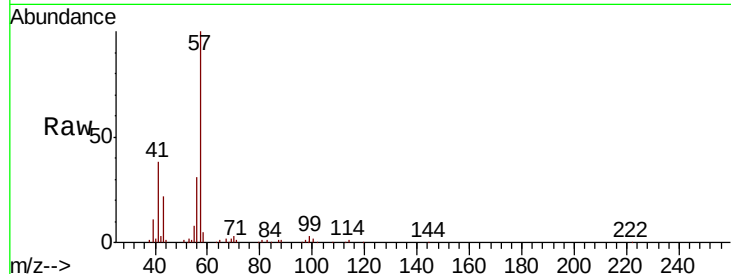
Tgt Ion: 63 Resp: 604943
Ion Ratio Lower Upper
63 100
41 0.0 55.9 83.9#
62 16.8 53.8 80.6#





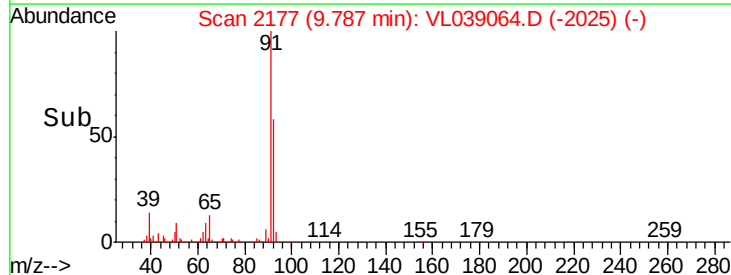
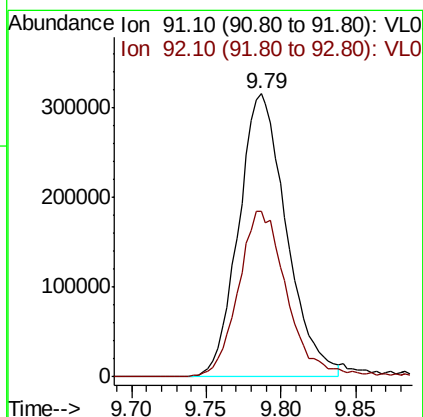
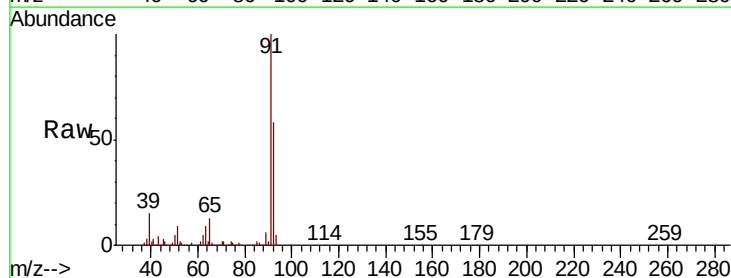
#44
 2,2,4-Trimethylpentane
 Concen: 0.366 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 1161-8.01-A-1DL
 Acq: 14 May 2022 9:15

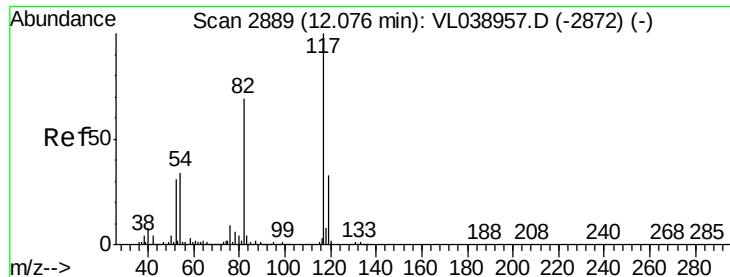
Tot Ion:	57	Resp:	135336
Ion	Ratio	Lower	Upper
57	100		
41	36.3	26.3	39.5
56	35.7	24.6	37.0



#53
 Toluene
 Concen: 2.958 ppbv
 RT: 9.79 min Scan# 2177
 Delta R.T. -0.01 min
 Lab File: VL039064.D
 Acq: 14 May 2022 9:15

Tgt Ion:	91	Resp:	697665
Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.2	72.2

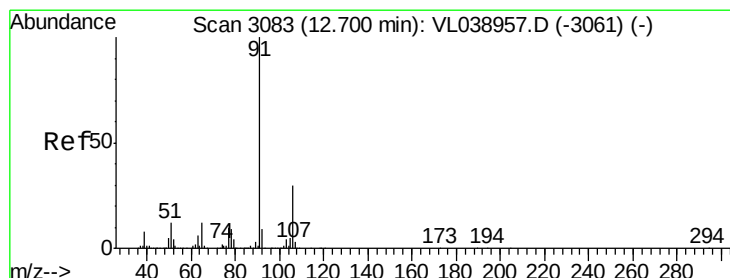
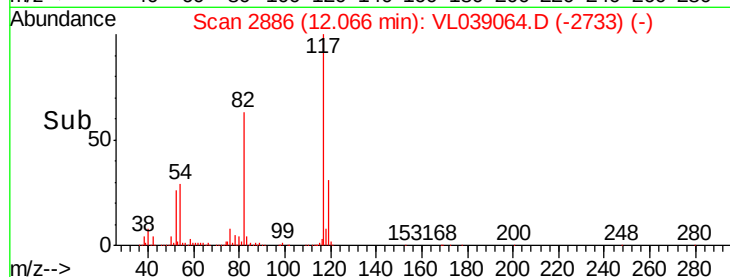
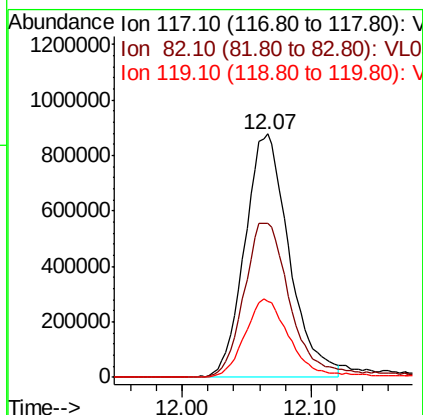
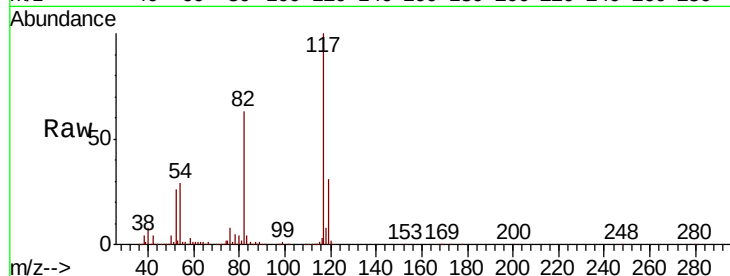




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 14 May 2022 9:15

Tot Ion:117 Resp: 2097091

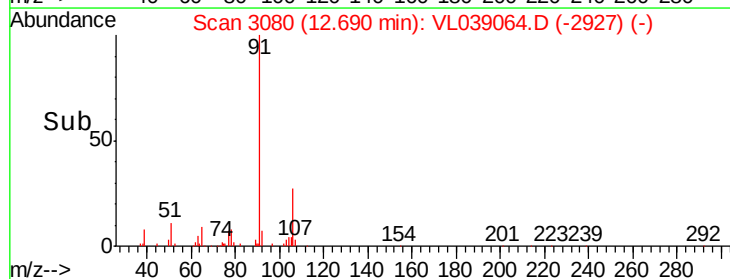
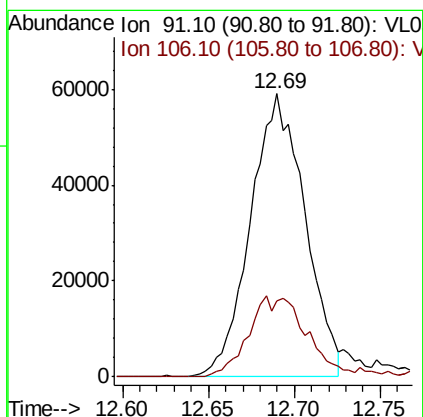
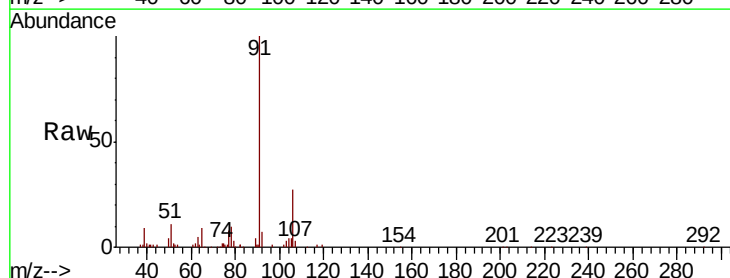
Ion	Ratio	Lower	Upper
117	100		
82	70.0	57.0	85.6
119	33.7	27.2	40.8

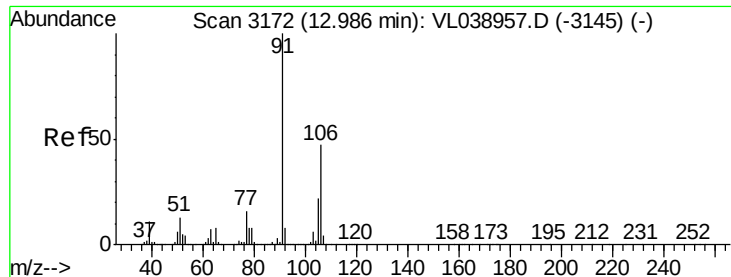


#58
Ethyl Benzene
Concen: 0.430 ppbv
RT: 12.69 min Scan# 3080
Delta R.T.: -0.01 min
Lab File: VL039064.D
Acq: 14 May 2022 9:15

Tgt Ion: 91 Resp: 129798

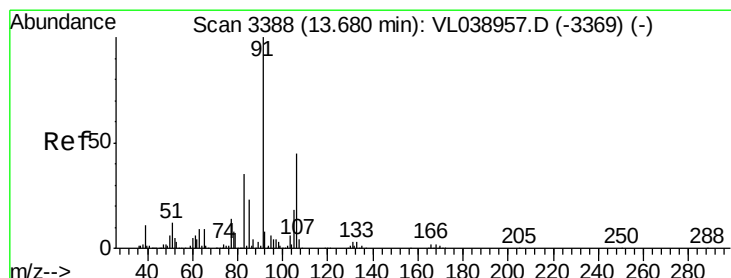
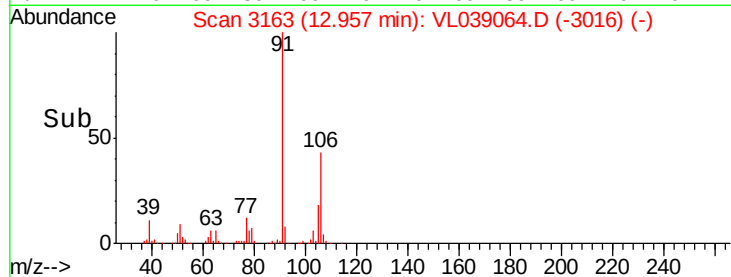
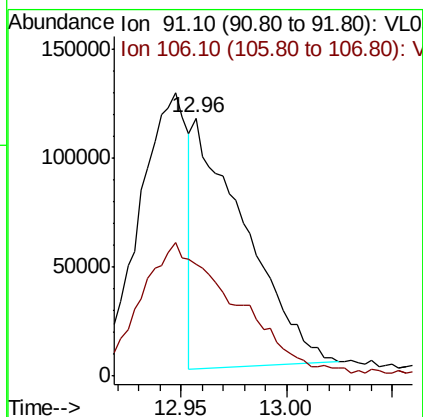
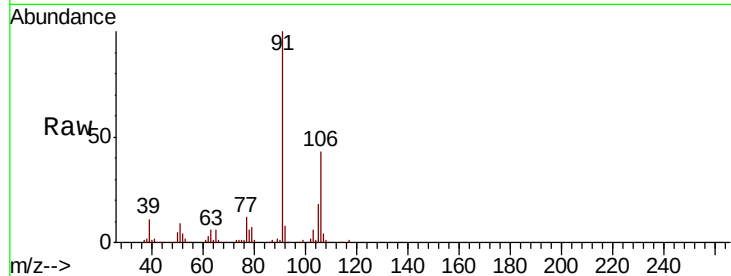
Ion	Ratio	Lower	Upper
91	100		
106	27.0	24.2	36.4





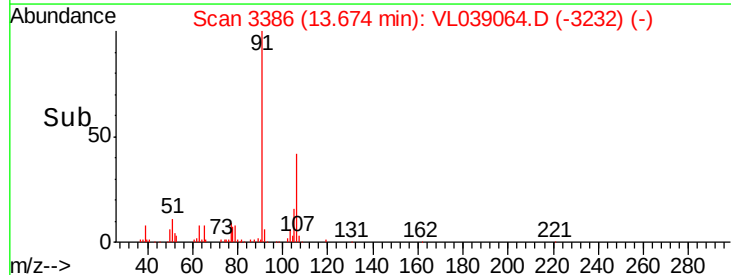
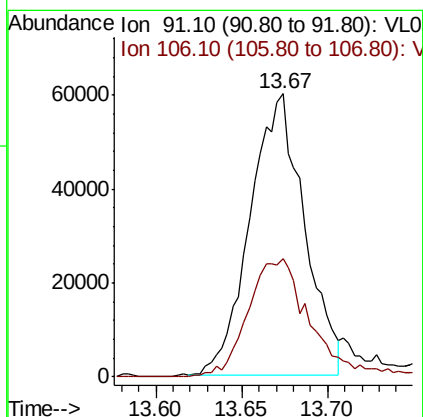
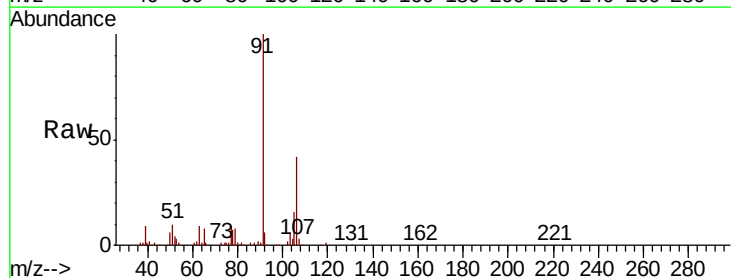
#59
m/p-Xylene
Concen: 0.764 ppbv
RT: 12.96
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 14 May 2022 9:15

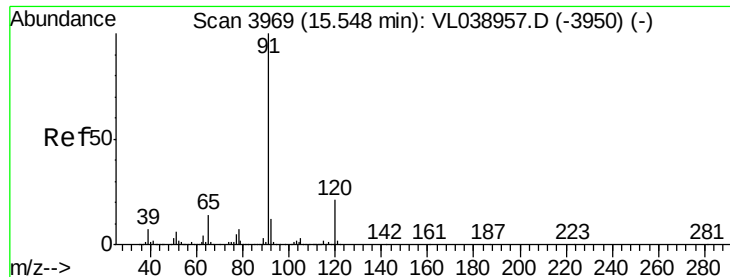
Tot Ion: 91 Resp: 196912
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#



#60
o-Xylene
Concen: 0.540 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL039064.D
Acq: 14 May 2022 9:15

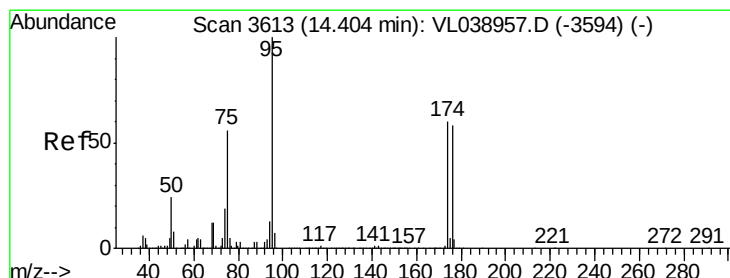
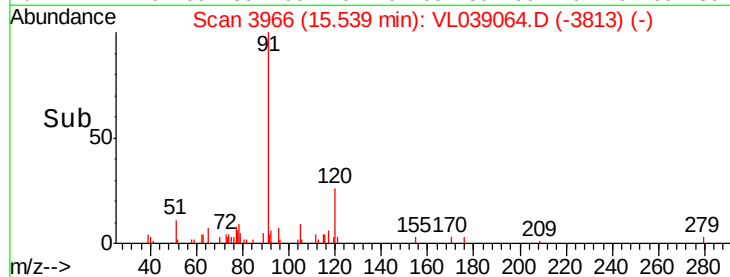
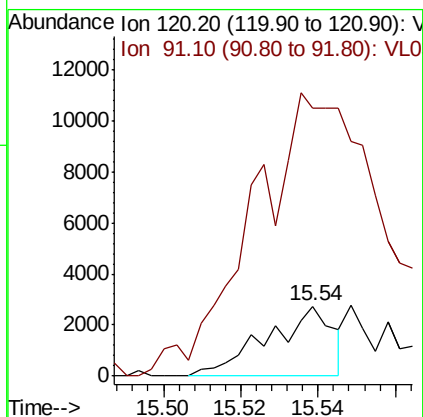
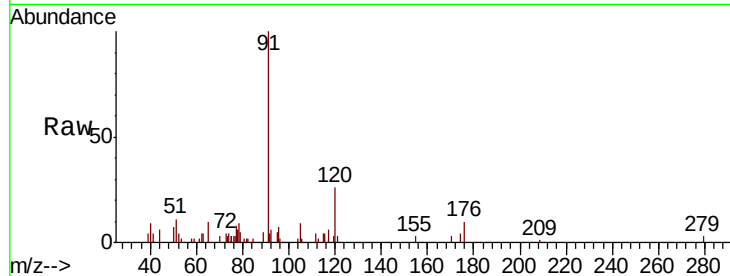
Tgt Ion: 91 Resp: 130958
Ion Ratio Lower Upper
91 100
106 48.2 22.2 66.6





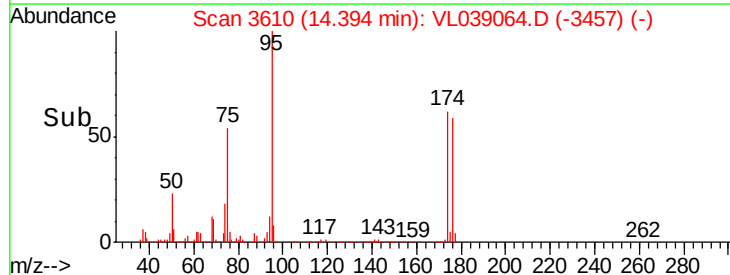
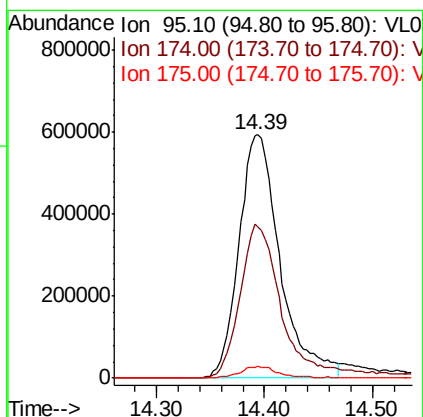
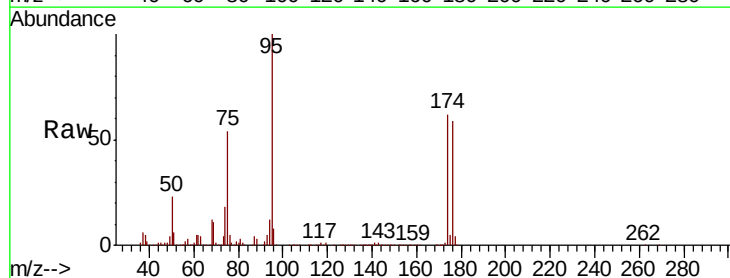
#64
 n-propylbenzene
 Concen: 0.037 ppbv
 RT: 15.54 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampled : 1161-8.01-1A-1DL
 Acq: 14 May 2022 9:15

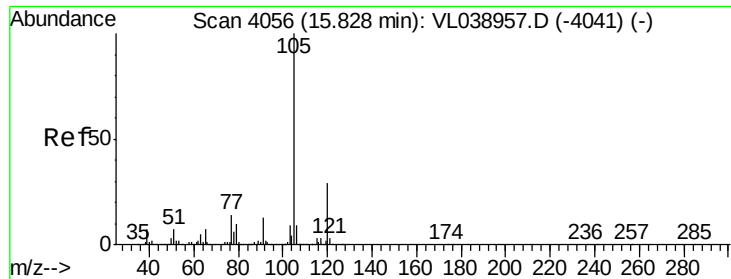
Tot Ion: 120 Resp: 3215
 Ion Ratio Lower Upper
 120 100
 91 912.8 400.6 601.0#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.492 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T.: -0.01 min
 Lab File: VL039064.D
 Acq: 14 May 2022 9:15

Tgt Ion: 95 Resp: 1576471
 Ion Ratio Lower Upper
 95 100
 174 67.2 50.8 76.2
 175 4.5 3.8 5.6





#72

4-Ethyltoluene

Concen: 0.063 ppbv

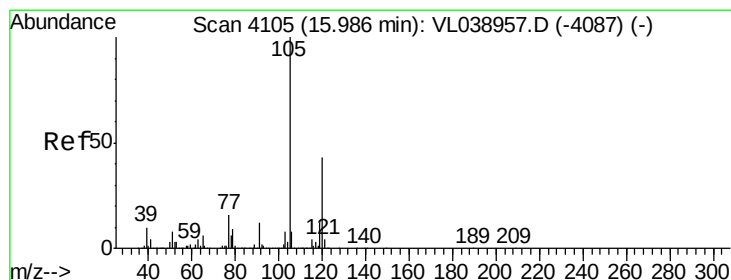
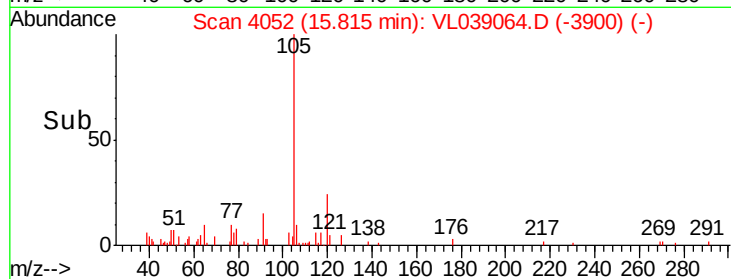
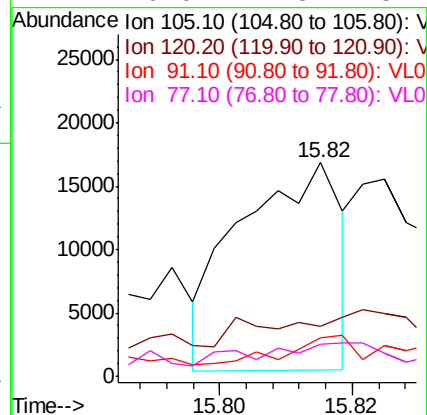
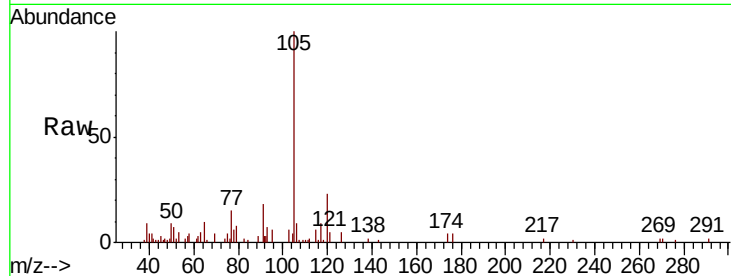
RT: 15.82 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 14 May 2022 9:15

Tot Ion:	105	Resp:	17445
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.6	16.0#
77	0.0	12.5	18.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.053 ppbv

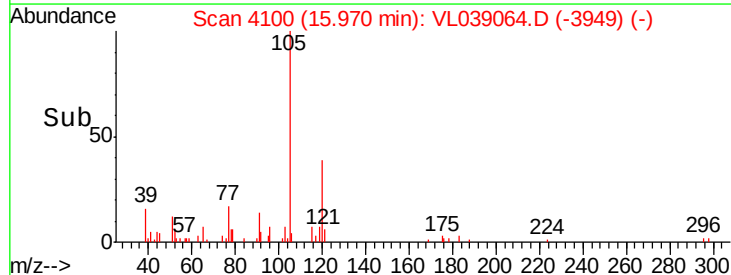
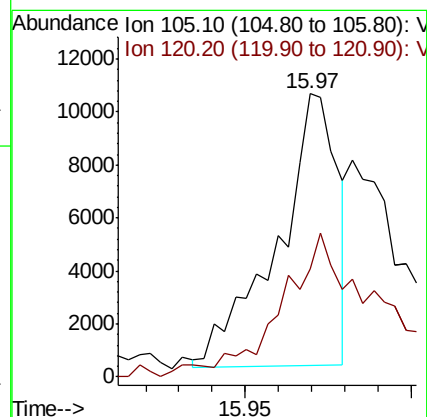
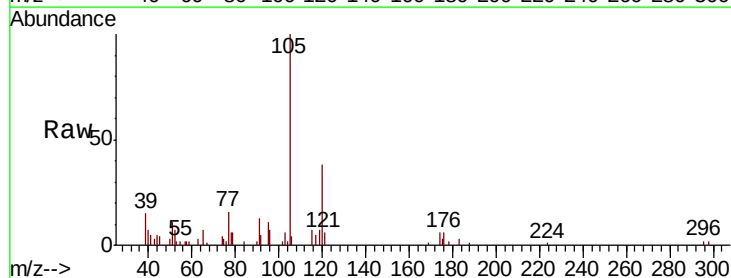
RT: 15.97 min Scan# 4100

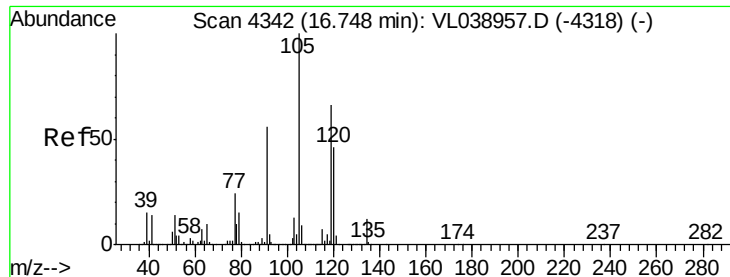
Delta R.T. -0.02 min

Lab File: VL039064.D

Acq: 14 May 2022 9:15

Tgt Ion:	105	Resp:	13090
Ion	Ratio	Lower	Upper
105	100		
120	36.1	34.4	51.6





#74

1,2,4-Trimethylbenzene

Concen: 0.207 ppbv

RT: 16.74 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId:

Acq: 14 May 2022 9:15

Tot Ion:105 Resp: 56301

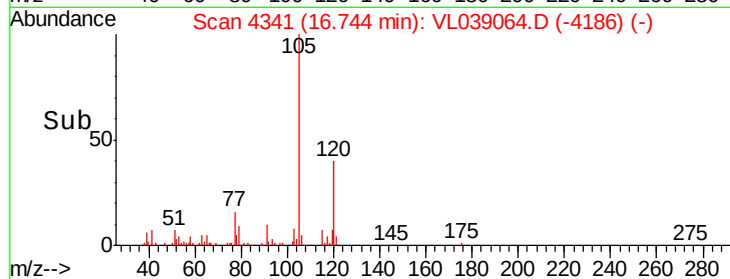
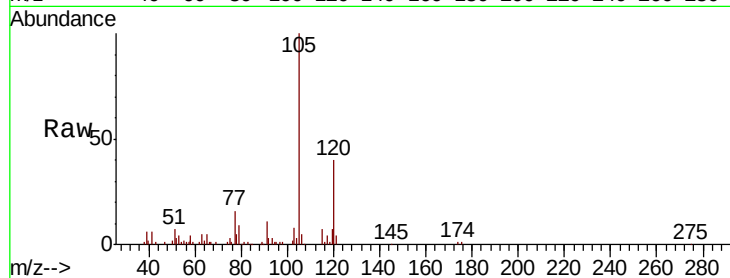
Ion Ratio Lower Upper

105 100

120 39.5 36.9 55.3

91 10.3 45.0 67.4#

77 16.0 19.2 28.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

