

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037844.D
 Acq On : 13 Oct 2021 00:30
 Operator : SY/AP
 Sample : M4143-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1ST-FLOOR

Quant Time: Oct 14 01:07:29 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1284107	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3726181	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3191508	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	2181692	9.78	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	35698	0.174	ppbv	96
3) Chlorodifluoromethane	2.96	51	111167	0.451	ppbv #	78
4) Chloromethane	3.14	50	17235	0.191	ppbv	93
9) Propene	3.01	41	108518	1.195	ppbv	98
10) Heptane	8.12	43	39688	0.192	ppbv #	81
11) Trichlorofluoromethane	3.95	101	40380	0.221	ppbv #	78
12) 1,1,2-Trichlorotrifluoroet	4.48	101	8449	0.061	ppbv	88
13) Ethanol	3.61	45	677392	91.239	ppbv	81
15) Acetone	3.84	43	6707070	58.183	ppbv	100
16) 1,3-Butadiene	3.31	39	183978	2.194	ppbv #	24
17) tert-Butyl alcohol	4.30	59	120286	1.013	ppbv	99
19) Isopropyl Alcohol	3.97	45	336342	4.690	ppbv #	1
20) Methylene Chloride	4.34	84	586198	10.064	ppbv	93
21) Allyl Chloride	4.36	41	5029	0.049	ppbv #	71
23) Vinyl Acetate	5.07	43	55866	0.323	ppbv #	61
25) Ethyl Acetate	5.67	43	1534068	4.742	ppbv #	94
26) Hexane	5.68	57	426936	2.680	ppbv #	34
27) Carbon Disulfide	4.55	76	22645	0.160	ppbv #	75
29) Chloroform	5.75	83	205306	0.902	ppbv #	78
30) Cyclohexane	7.13	84	5046	0.037	ppbv #	1
31) cis-1,2-Dichloroethene	5.66	61	166939	1.155	ppbv #	23
34) 2-Butanone	5.24	43	1581882	10.516	ppbv	99
36) Benzene	6.89	78	106064	0.333	ppbv	99
37) 1,2-Dichloroethane	6.30	62	121948	0.814	ppbv #	95
38) Trichloroethene	7.83	130	28886	0.230	ppbv #	82
39) 1,2-Dichloropropane	7.22	63	11163	0.093	ppbv #	29
41) Tetrahydrofuran	6.05	42	10920	0.148	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	37098	0.069	ppbv #	1
50) 4-Methyl-2-Pentanone	8.75	43	8125	0.041	ppbv #	38
51) 2-Hexanone	10.14	43	70887	0.811	ppbv #	72
52) Tetrachloroethene	11.22	164	3351243	27.065	ppbv	96
53) Toluene	9.80	91	2059395	5.839	ppbv	98
58) Ethyl Benzene	12.70	91	161869	0.378	ppbv	99
59) m/p-Xylene	12.98	91	144520	0.393	ppbv #	30
60) o-Xylene	13.68	91	187800	0.533	ppbv	100
61) Styrene	13.52	104	37240	0.218	ppbv #	34
73) 1,3,5-Trimethylbenzene	15.99	105	16820	0.046	ppbv	93
74) 1,2,4-Trimethylbenzene	16.75	105	50234	0.132	ppbv #	75
80) Naphthalene,2-methyl-	24.96	142	4974	0.079	ppbv #	44

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QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

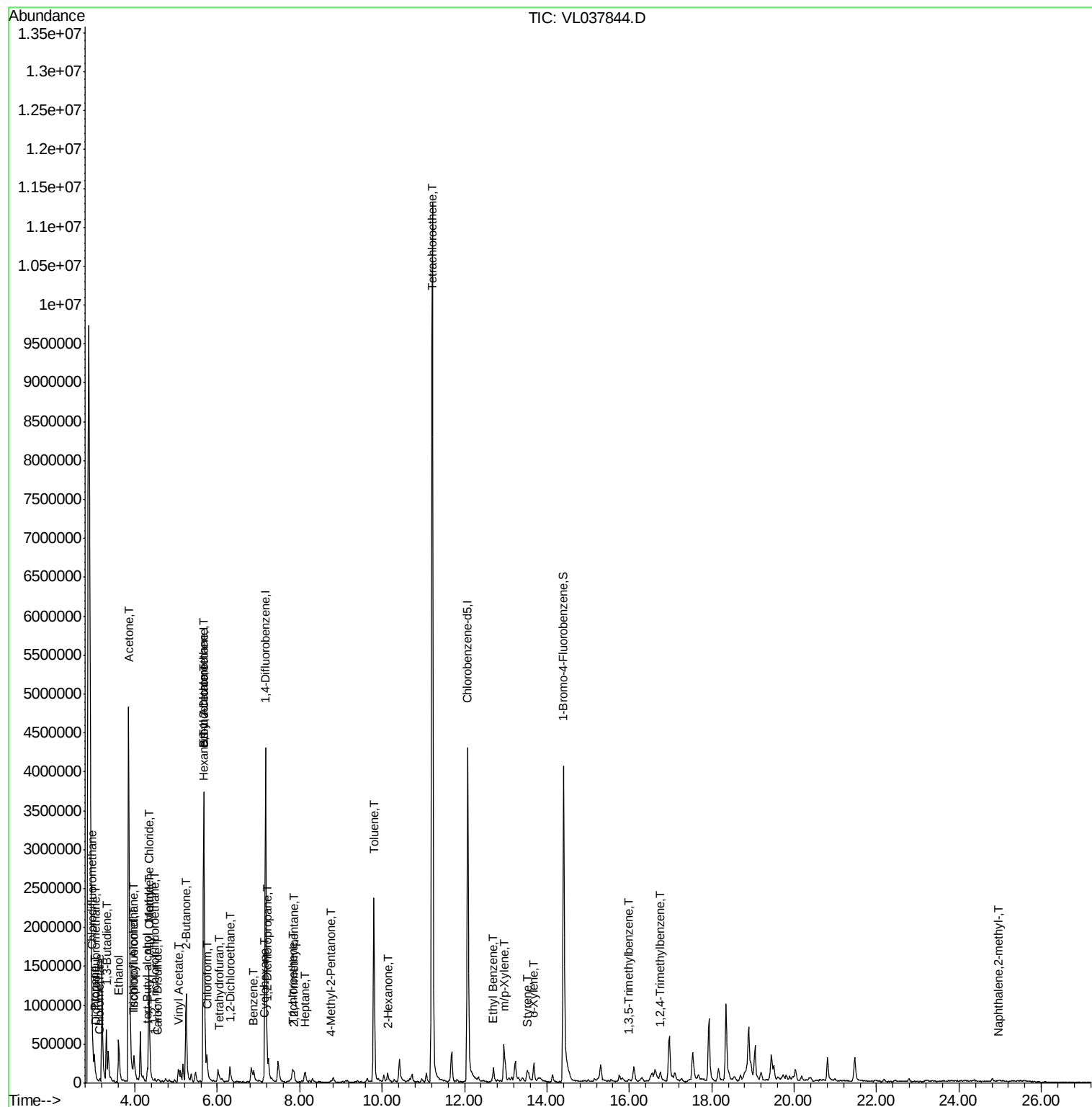
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

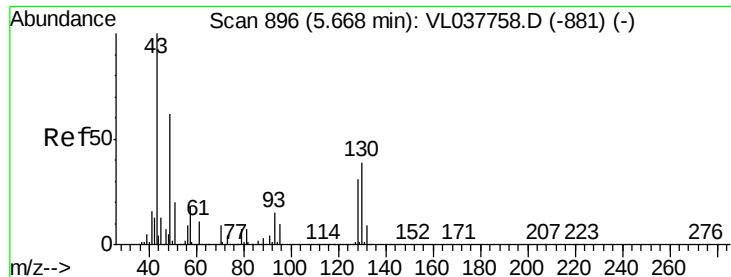
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 1ST-FLOOR

Acq: 13 Oct 2021 00:30

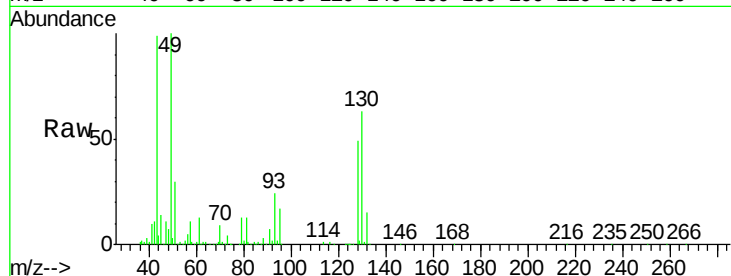
Tgt Ion: 49 Resp: 1284107

Ion Ratio Lower Upper

49 100

128 52.5 27.1 81.3

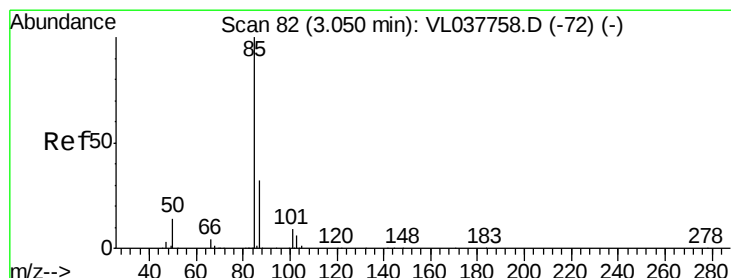
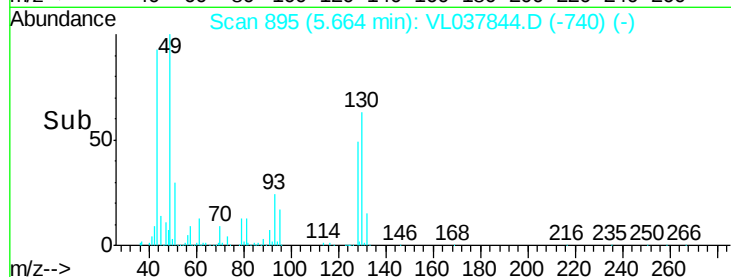
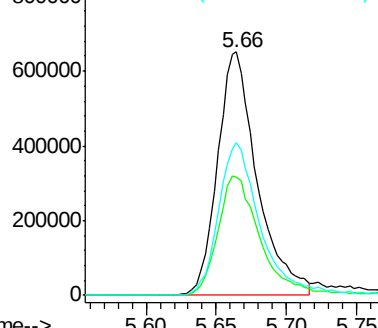
130 67.3 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.174 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037844.D

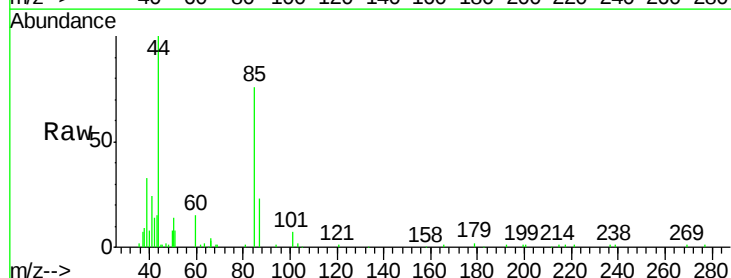
Acq: 13 Oct 2021 00:30

Tgt Ion: 85 Resp: 35698

Ion Ratio Lower Upper

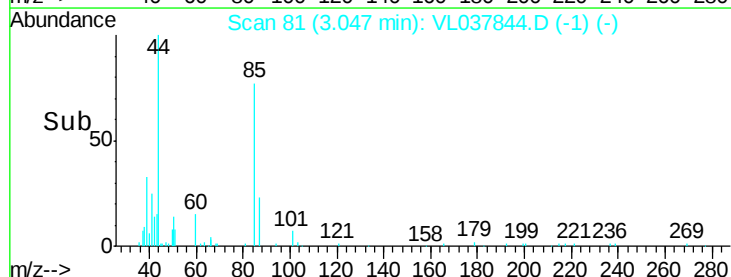
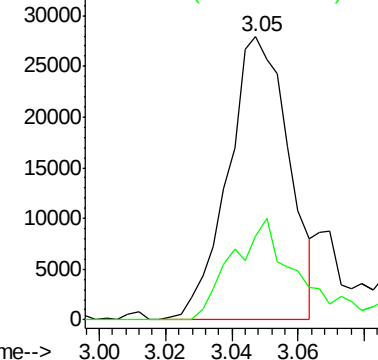
85 100

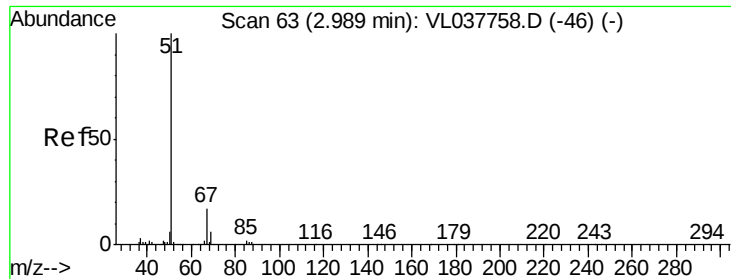
87 29.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.451 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

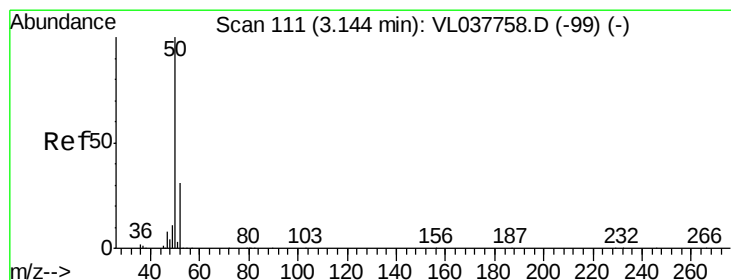
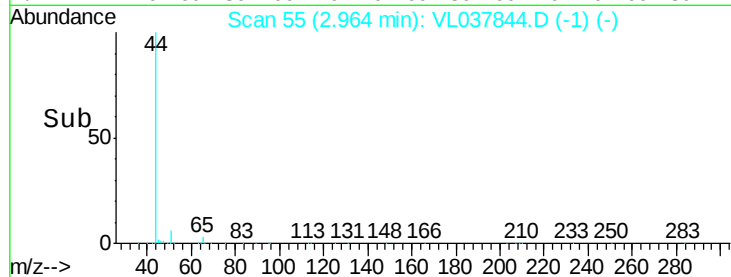
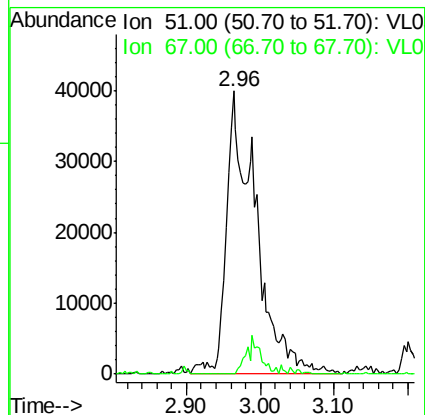
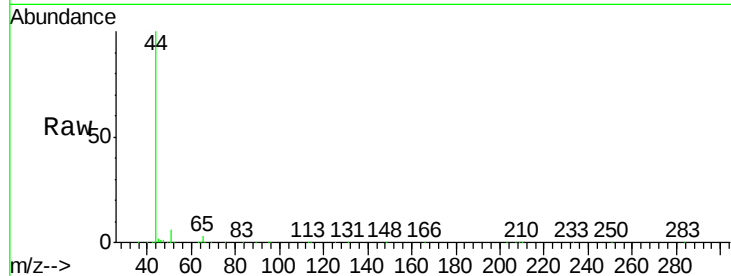
Acq: 13 Oct 2021 00:30

Tgt Ion: 51 Resp: 111167

Ion Ratio Lower Upper

51 100

67 7.5 13.5 20.3#



#4

Chloromethane

Concen: 0.191 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL037844.D

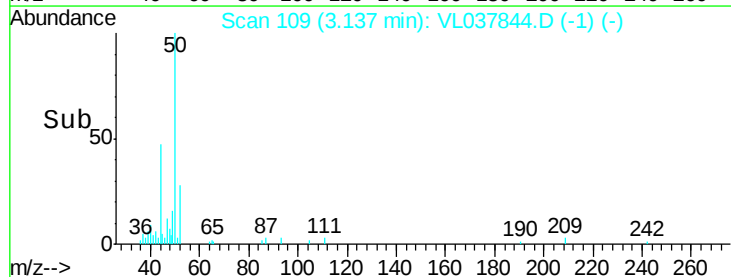
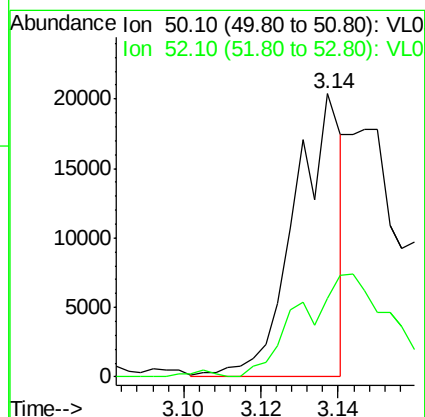
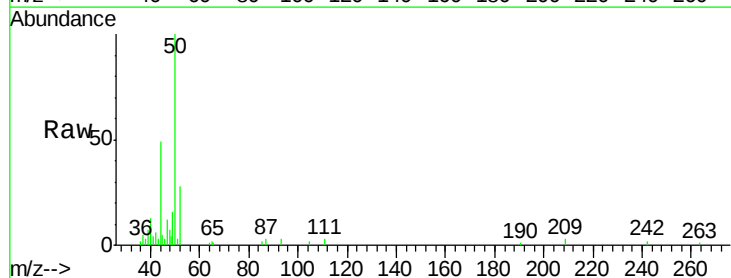
Acq: 13 Oct 2021 00:30

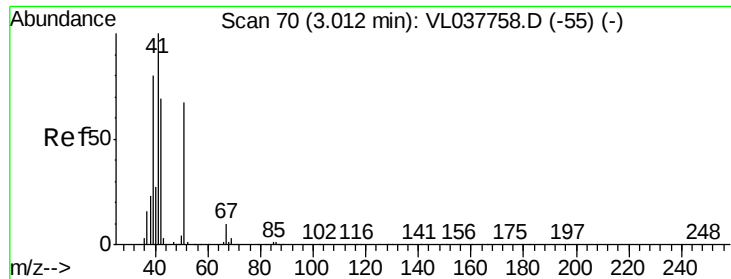
Tgt Ion: 50 Resp: 17235

Ion Ratio Lower Upper

50 100

52 26.9 24.4 36.6





#9

Propene

Concen: 1.195 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

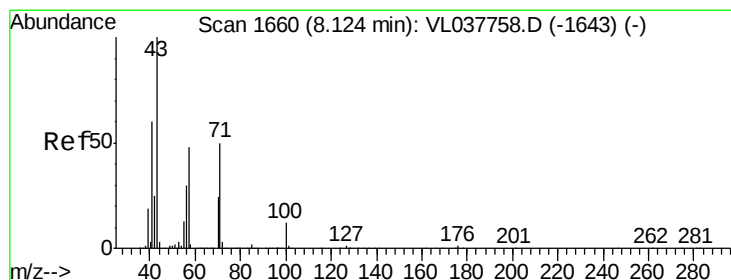
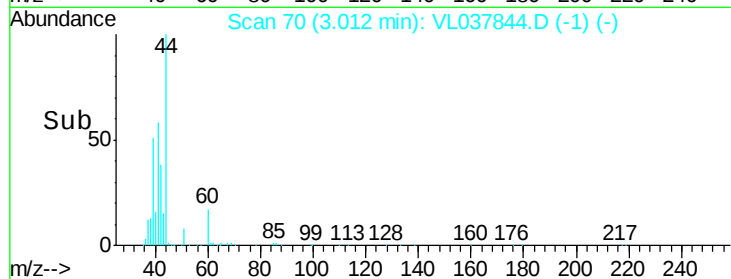
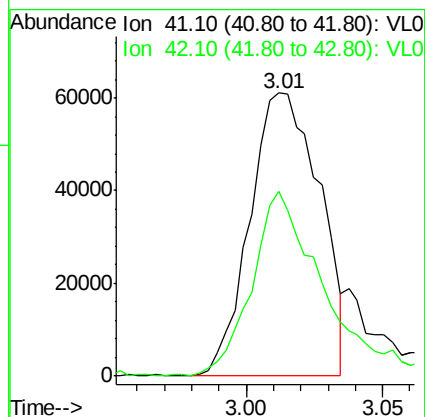
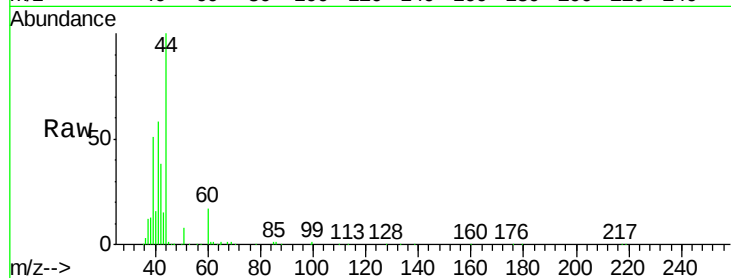
Acq: 13 Oct 2021 00:30 1ST-FLOOR

Tgt Ion: 41 Resp: 108518

Ion Ratio Lower Upper

41 100

42 66.4 54.2 81.2



#10

Heptane

Concen: 0.192 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VL037844.D

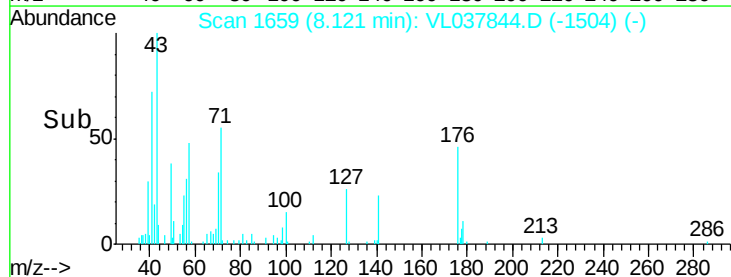
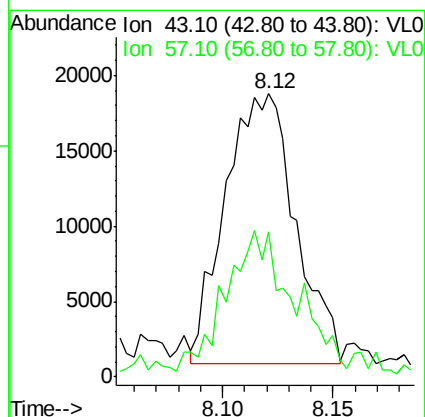
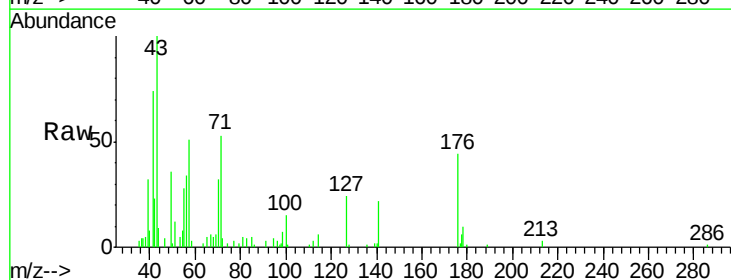
Acq: 13 Oct 2021 00:30

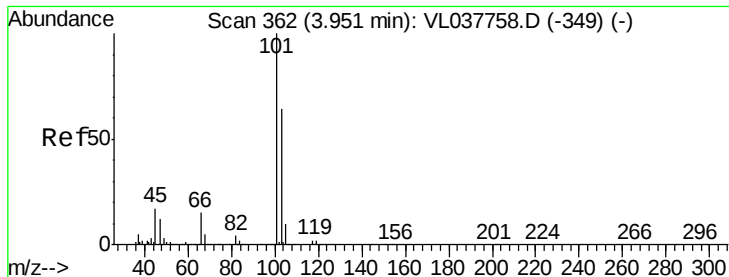
Tgt Ion: 43 Resp: 39688

Ion Ratio Lower Upper

43 100

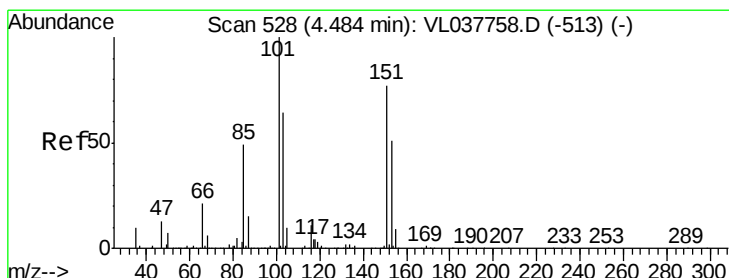
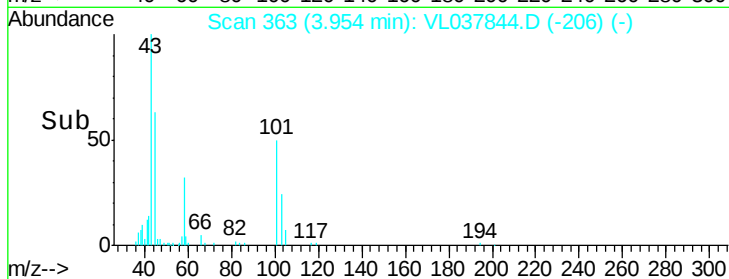
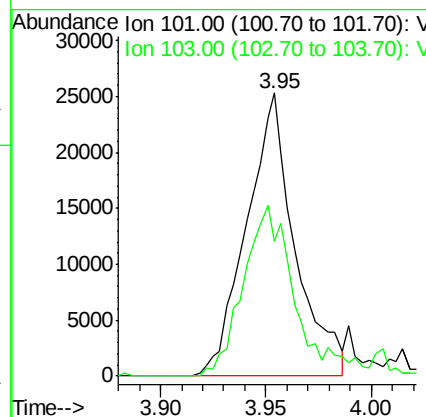
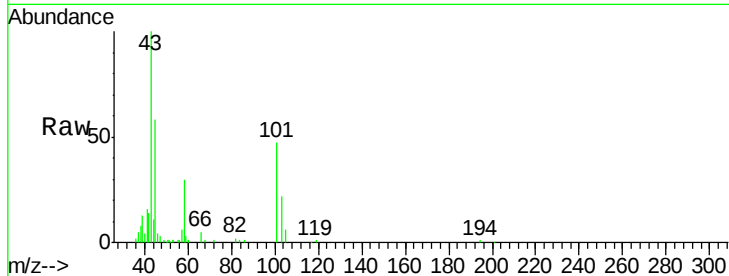
57 63.2 40.0 60.0#





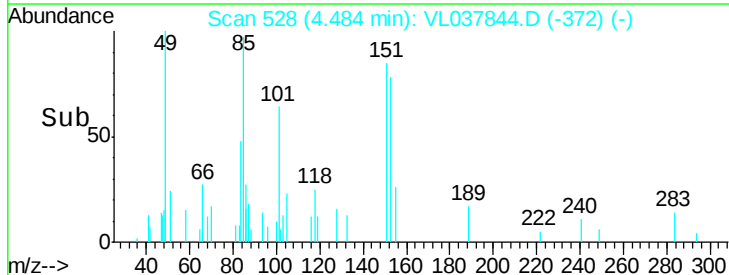
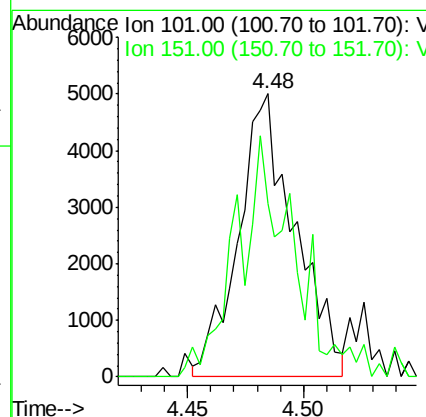
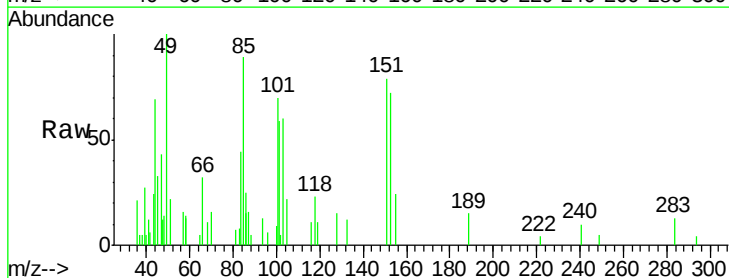
#11
 Trichlorofluoromethane
 Concen: 0.221 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Oct 2021 00:30

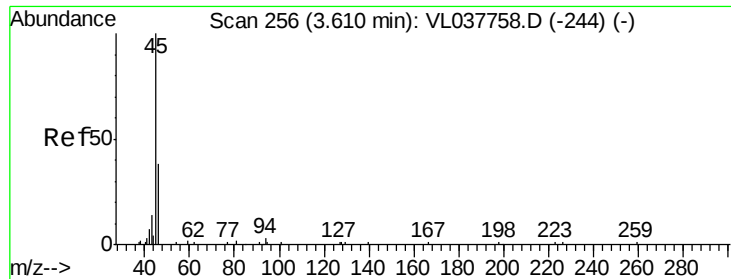
Tgt Ion:101 Resp: 40380
 Ion Ratio Lower Upper
 101 100
 103 47.5 51.5 77.3#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.061 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VL037844.D
 Acq: 13 Oct 2021 00:30

Tgt Ion:101 Resp: 8449
 Ion Ratio Lower Upper
 101 100
 151 89.0 62.9 94.3





#13

Ethanol

Concen: 91.239 ppbv

RT: 3.61 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

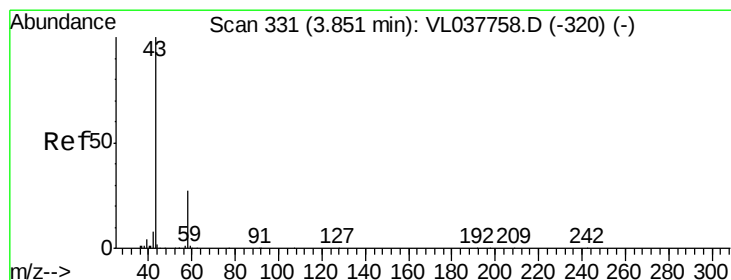
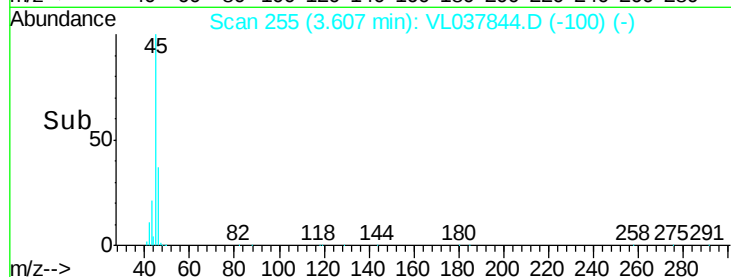
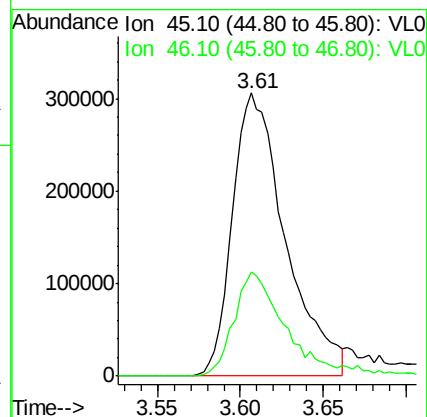
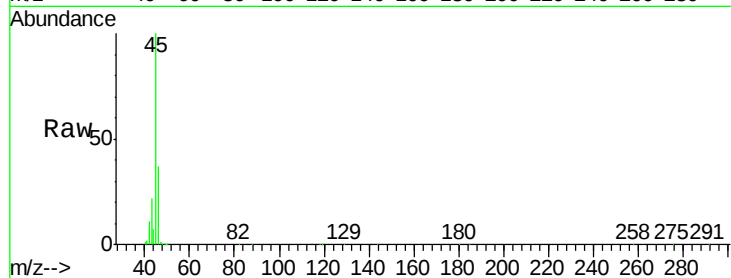
Acq: 13 Oct 2021 00:30 1ST-FLOOR

Tgt Ion: 45 Resp: 677392

Ion Ratio Lower Upper

45 100

46 37.3 20.2 81.0



#15

Acetone

Concen: 58.183 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL037844.D

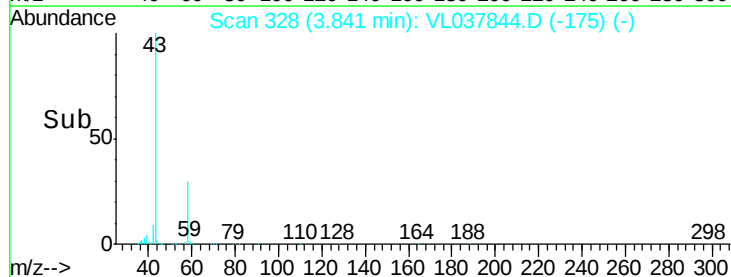
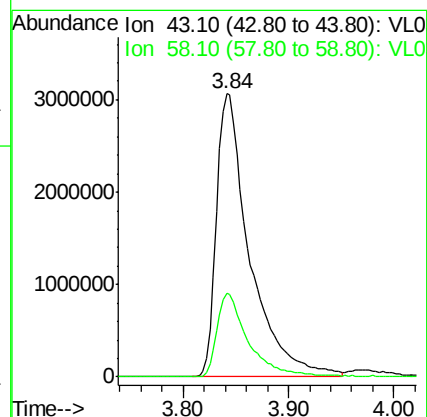
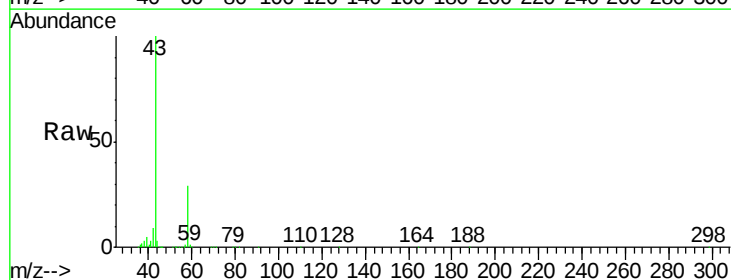
Acq: 13 Oct 2021 00:30

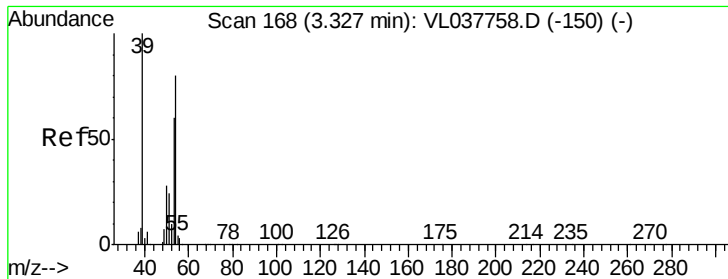
Tgt Ion: 43 Resp: 6707070

Ion Ratio Lower Upper

43 100

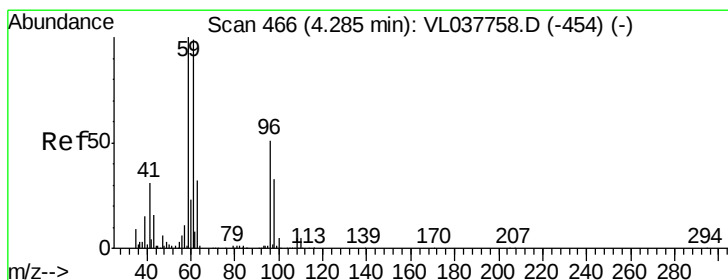
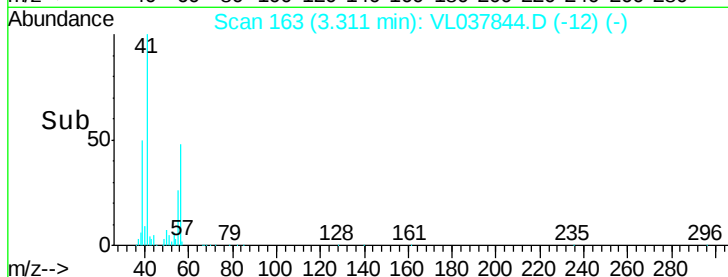
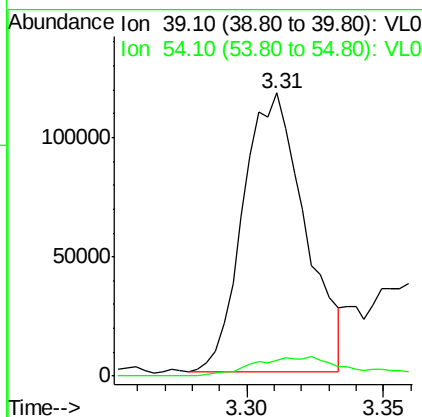
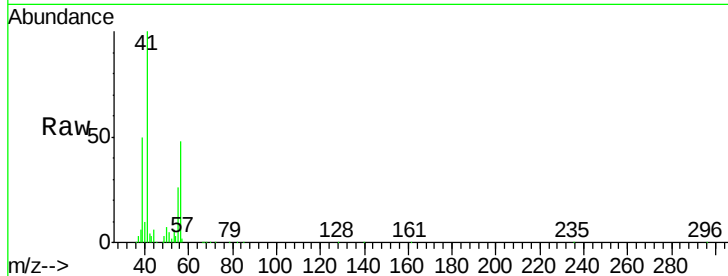
58 28.6 23.0 34.6





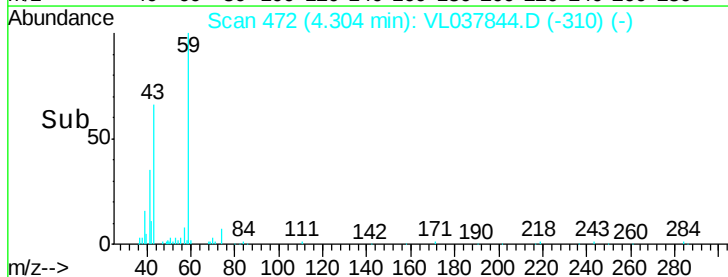
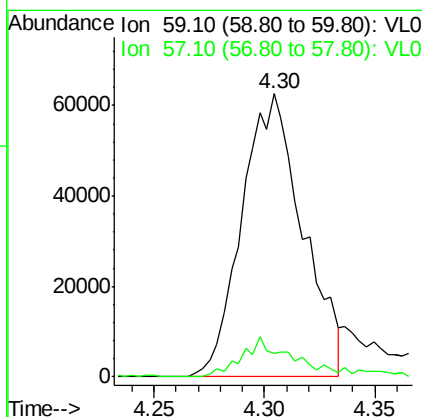
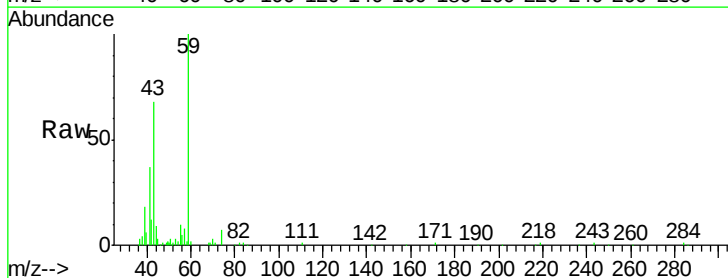
#16
 1,3-Butadiene
 Concen: 2.194 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 13 Oct 2021 00:30

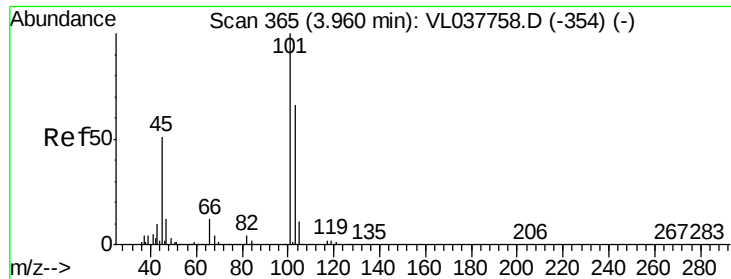
Tgt Ion: 39 Resp: 183978
 Ion Ratio Lower Upper
 39 100
 54 11.5 61.7 92.5#



#17
 tert-Butyl alcohol
 Concen: 1.013 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.02 min
 Lab File: VL037844.D
 Acq: 13 Oct 2021 00:30

Tgt Ion: 59 Resp: 120286
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.6 13.0





#19

Isopropyl Alcohol

Concen: 4.690 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

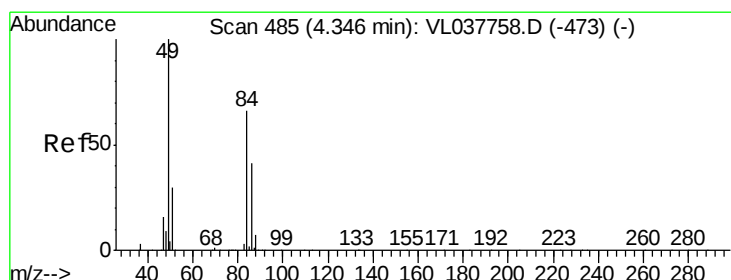
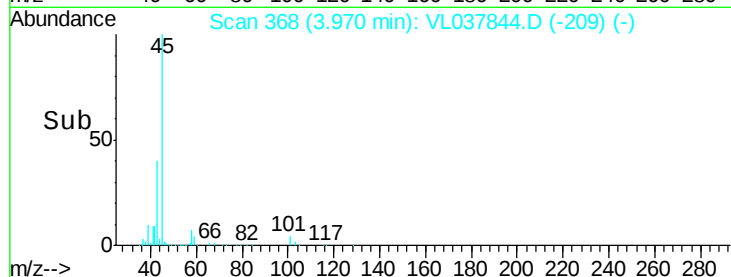
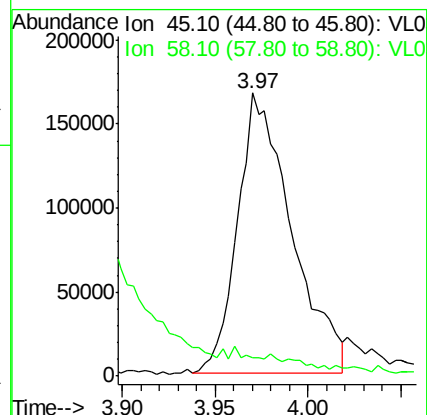
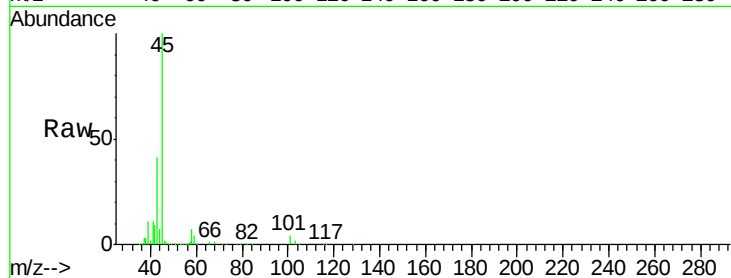
Acq: 13 Oct 2021 00:30

Tgt Ion: 45 Resp: 336342

Ion Ratio Lower Upper

45 100

58 556.2 1.1 1.7#



#20

Methylene Chloride

Concen: 10.064 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL037844.D

Acq: 13 Oct 2021 00:30

Tgt Ion: 84 Resp: 586198

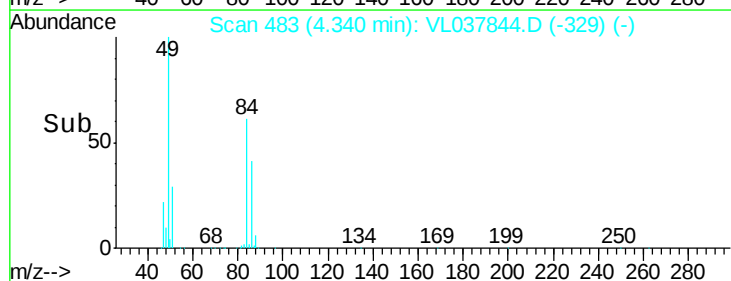
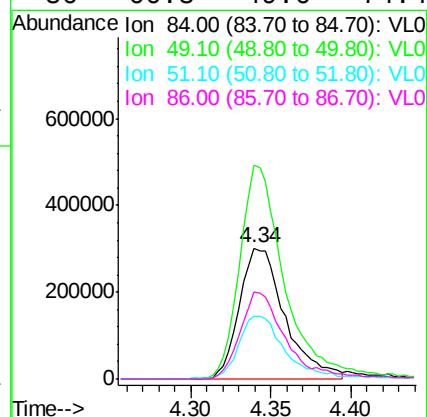
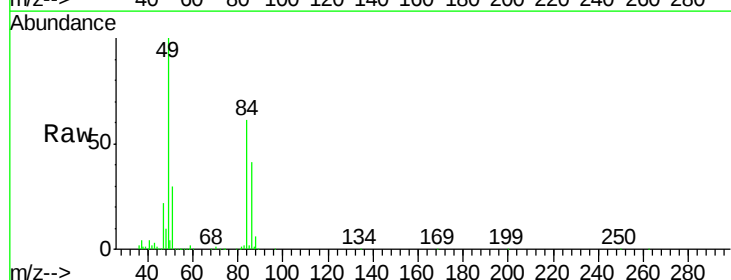
Ion Ratio Lower Upper

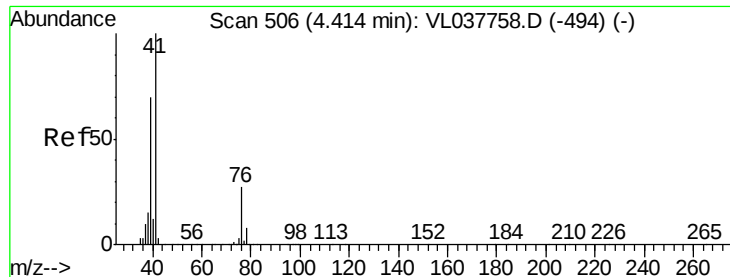
84 100

49 162.5 120.7 181.1

51 47.4 36.2 54.4

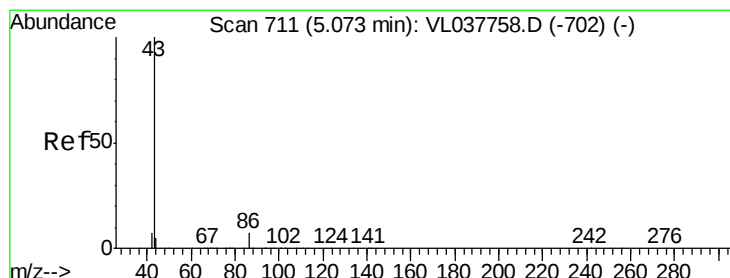
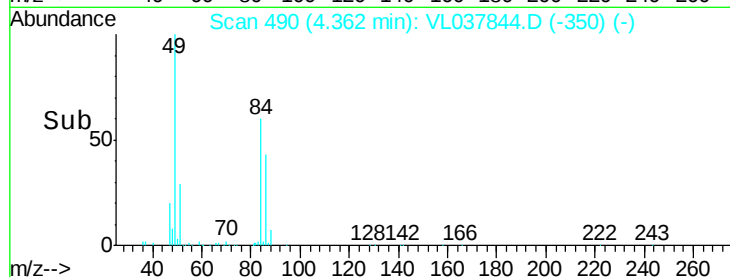
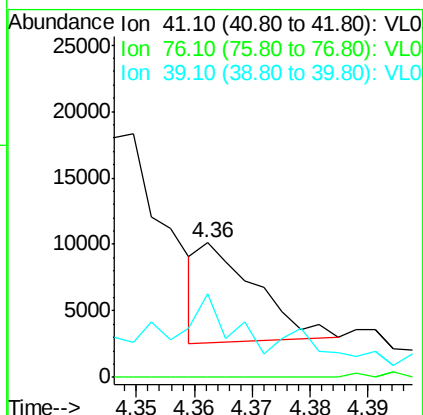
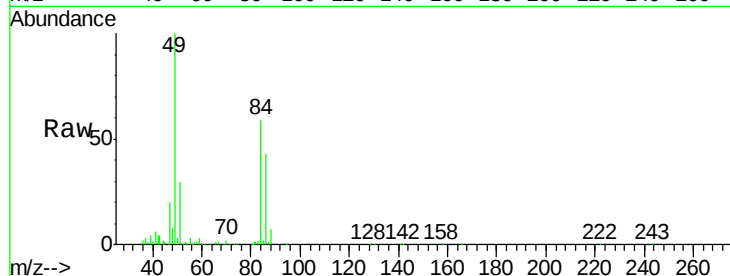
86 66.3 49.6 74.4





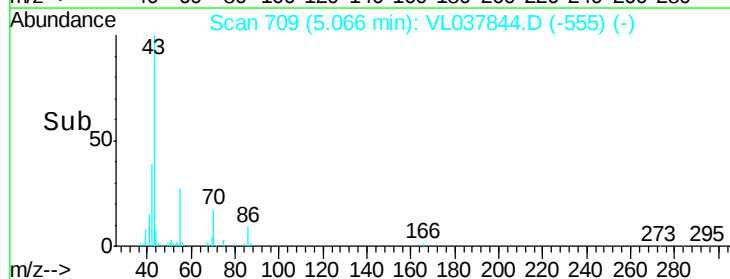
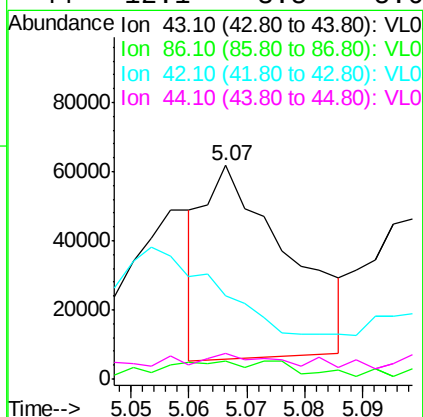
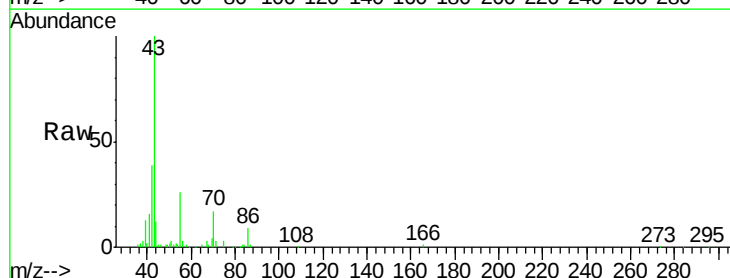
#21
 Allyl Chloride
 Concen: 0.049 ppbv
 RT: 4.36
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 13 Oct 2021 00:30

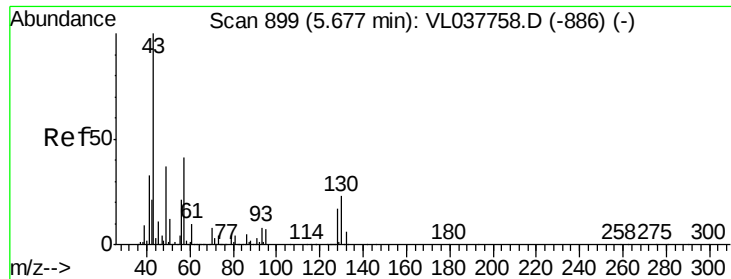
Tgt Ion: 41 Resp: 5029
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.4 33.6#
 39 88.4 58.0 87.0#



#23
 Vinyl Acetate
 Concen: 0.323 ppbv
 RT: 5.07 min Scan# 709
 Delta R.T. -0.01 min
 Lab File: VL037844.D
 Acq: 13 Oct 2021 00:30

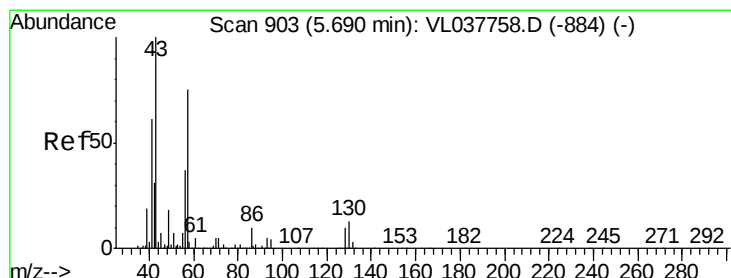
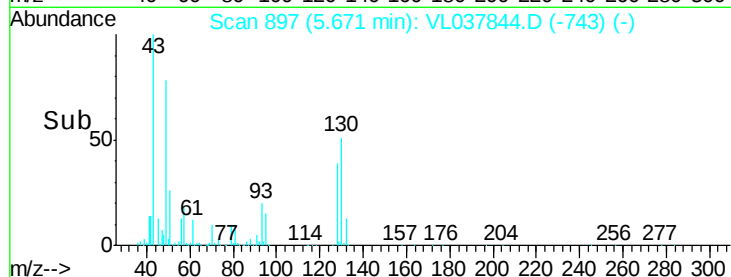
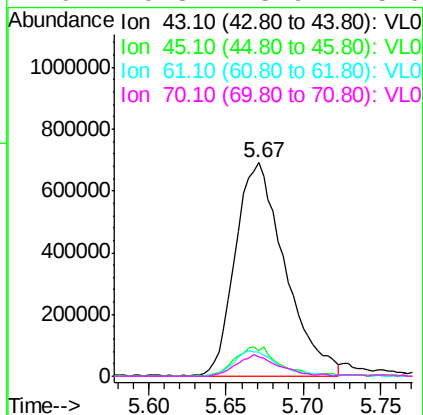
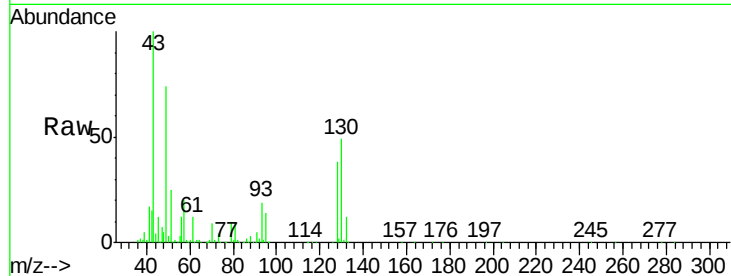
Tgt Ion: 43 Resp: 55866
 Ion Ratio Lower Upper
 43 100
 86 8.6 5.0 7.4#
 42 34.6 7.4 11.0#
 44 12.1 3.8 5.6#





#25
Ethyl Acetate
Concen: 4.742 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Oct 2021 00:30

Tgt Ion:	43	Resp:	1534068
Ion	Ratio	Lower	Upper
43	100		
45	12.8	8.1	12.1#
61	11.3	7.5	11.3#
70	9.3	5.9	8.9#



#26
Hexane
Concen: 2.680 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037844.D
Acq: 13 Oct 2021 00:30

Tgt Ion:	57	Resp:	426936
Ion	Ratio	Lower	Upper
57	100		
41	94.2	69.6	104.4
43	379.1	171.4	257.0#
56	56.6	42.0	63.0

