

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037848.D
 Acq On : 13 Oct 2021 3:00
 Operator : SY/AP
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Oct 14 01:08:12 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	1295952	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3626105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3079269	10.00	ppbv	0.00

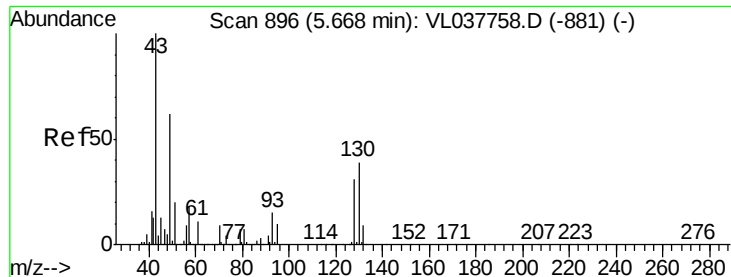
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2164102	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds

						Qvalue
3) Chlorodifluoromethane	2.99	51	60680	0.244	ppbv #	77
4) Chloromethane	3.14	50	8716	0.096	ppbv	90
9) Propene	3.02	41	60022	0.655	ppbv	97
10) Heptane	8.11	43	8781	0.042	ppbv #	20
11) Trichlorofluoromethane	3.95	101	10415	0.056	ppbv	98
13) Ethanol	3.61	45	318836	42.552	ppbv	85
15) Acetone	3.84	43	3273148	28.135	ppbv	98
16) 1,3-Butadiene	3.31	39	93137	1.100	ppbv #	25
17) tert-Butyl alcohol	4.30	59	42243	0.353	ppbv #	85
19) Isopropyl Alcohol	3.97	45	158127	2.185	ppbv #	1
20) Methylene Chloride	4.34	84	284595	4.842	ppbv	99
23) Vinyl Acetate	5.07	43	11717	0.067	ppbv #	62
25) Ethyl Acetate	5.67	43	710461	2.176	ppbv #	96
26) Hexane	5.69	57	196967	1.225	ppbv #	35
27) Carbon Disulfide	4.55	76	4434	0.031	ppbv #	61
29) Chloroform	5.75	83	81765	0.356	ppbv	98
30) Cyclohexane	7.12	84	3527	0.026	ppbv #	1
31) cis-1,2-Dichloroethene	5.67	61	64463	0.442	ppbv #	26
34) 2-Butanone	5.24	43	705628	4.820	ppbv	99
36) Benzene	6.88	78	43156	0.139	ppbv #	89
37) 1,2-Dichloroethane	6.30	62	54536	0.374	ppbv	99
38) Trichloroethene	7.83	130	15840	0.129	ppbv #	81
39) 1,2-Dichloropropane	7.17	63	858249	7.367	ppbv #	28
41) Tetrahydrofuran	6.04	42	2600	0.036	ppbv #	36
44) 2,2,4-Trimethylpentane	7.87	57	37454	0.072	ppbv #	65
51) 2-Hexanone	10.14	43	12908	0.152	ppbv #	29
52) Tetrachloroethene	11.22	164	1660626	13.781	ppbv	98
53) Toluene	9.80	91	876989	2.555	ppbv	99
58) Ethyl Benzene	12.71	91	22415	0.054	ppbv	92
59) m/p-Xylene	12.99	91	45773	0.129	ppbv #	30
60) o-Xylene	13.69	91	40962	0.120	ppbv #	42
61) Styrene	13.52	104	14758	0.090	ppbv #	27
74) 1,2,4-Trimethylbenzene	16.75	105	9833	0.027	ppbv #	53

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VIBLK

Acq: 13 Oct 2021 3:00

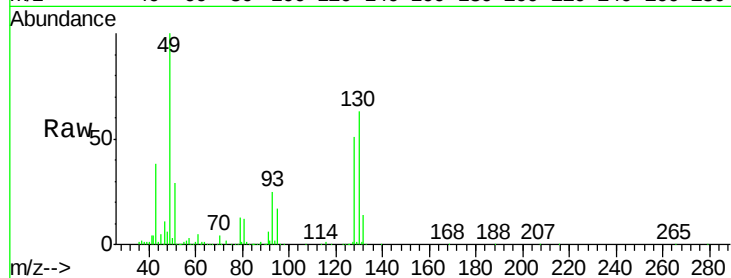
Tgt Ion: 49 Resp: 1295952

Ion Ratio Lower Upper

49 100

128 52.0 27.1 81.3

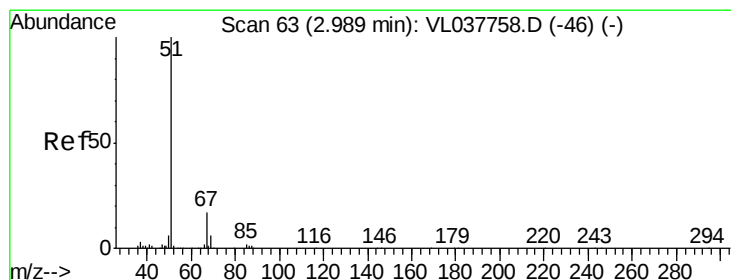
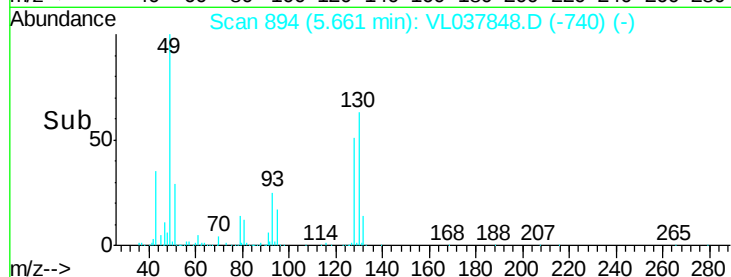
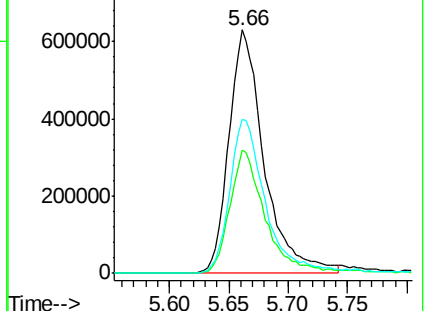
130 64.7 33.2 99.6



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



#3

Chlorodifluoromethane

Concen: 0.244 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.00 min

Lab File: VL037848.D

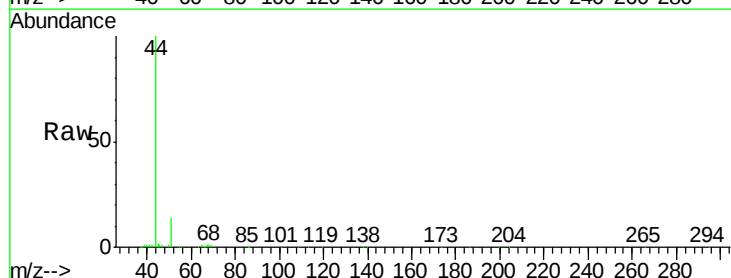
Acq: 13 Oct 2021 3:00

Tgt Ion: 51 Resp: 60680

Ion Ratio Lower Upper

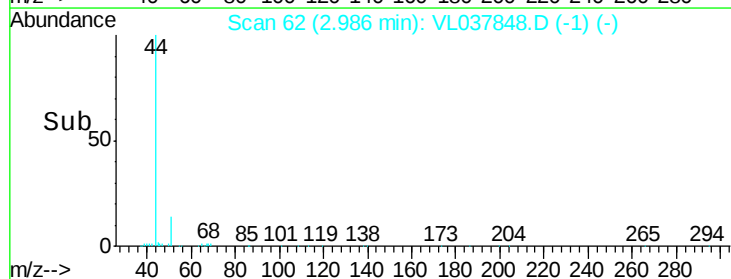
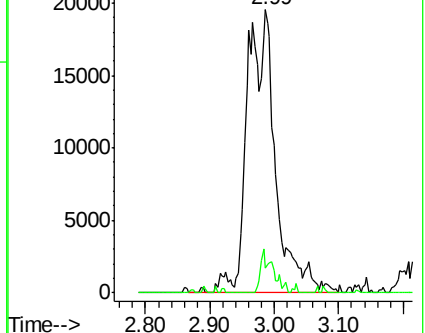
51 100

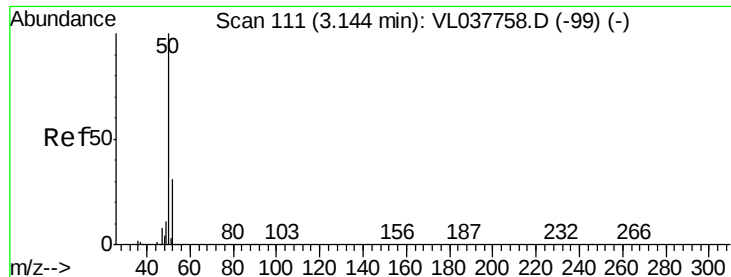
67 7.0 13.5 20.3#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.096 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

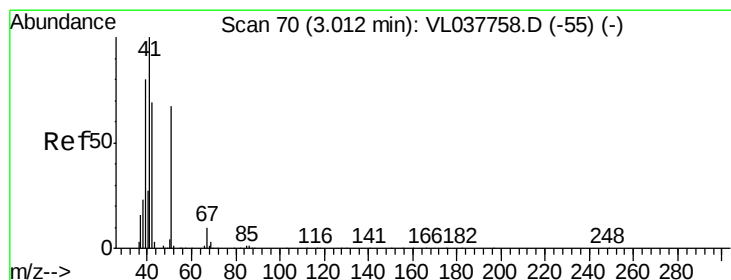
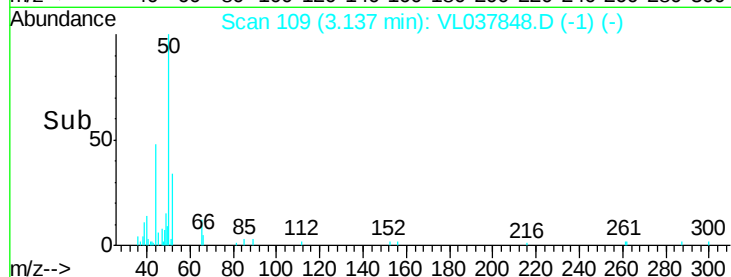
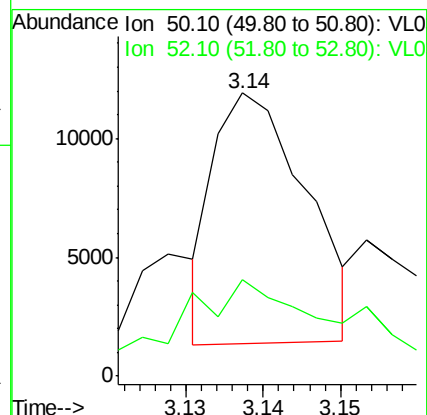
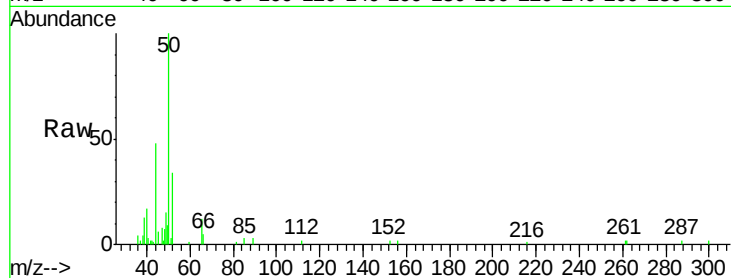
Acq: 13 Oct 2021 3:00

Tgt Ion: 50 Resp: 8716

Ion Ratio Lower Upper

50 100

52 25.1 24.4 36.6



#9

Propene

Concen: 0.655 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.00 min

Lab File: VL037848.D

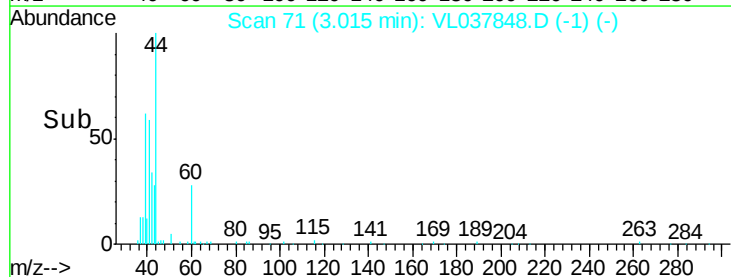
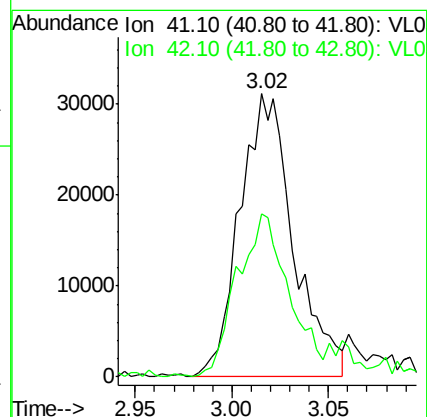
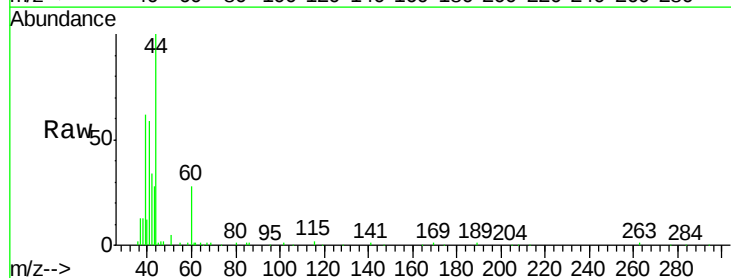
Acq: 13 Oct 2021 3:00

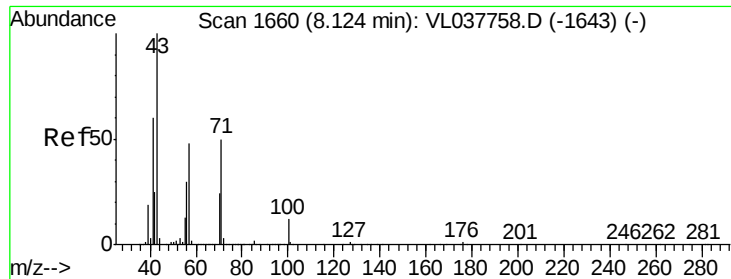
Tgt Ion: 41 Resp: 60022

Ion Ratio Lower Upper

41 100

42 65.3 54.2 81.2





#10

Heptane

Concen: 0.042 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

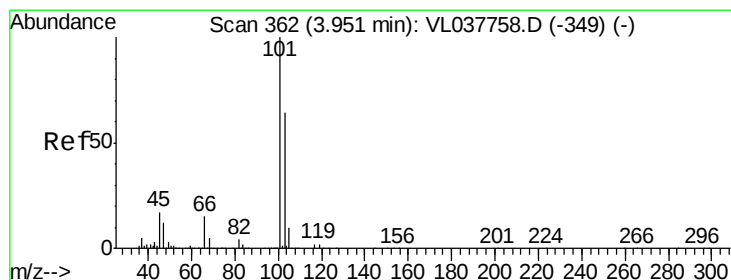
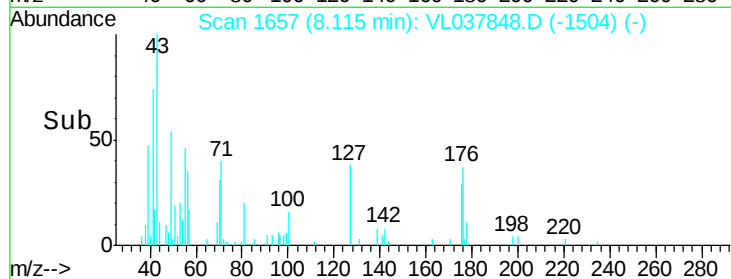
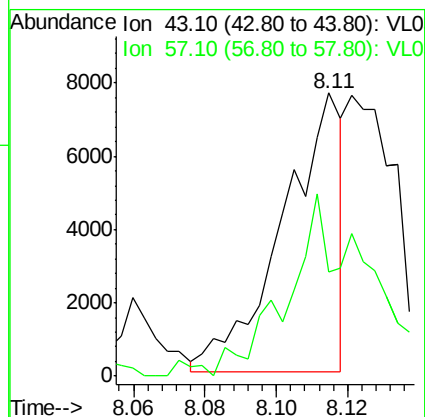
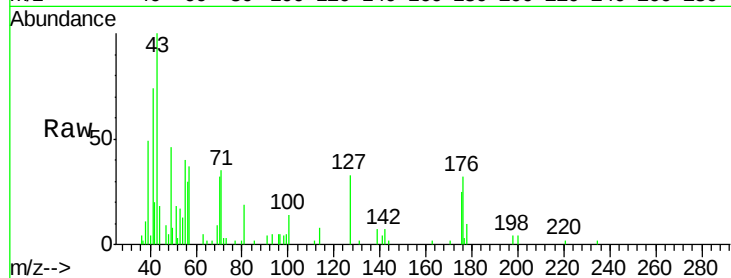
Acq: 13 Oct 2021 3:00

Tgt Ion: 43 Resp: 8781

Ion Ratio Lower Upper

43 100

57 105.1 40.0 60.0#



#11

Trichlorofluoromethane

Concen: 0.056 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL037848.D

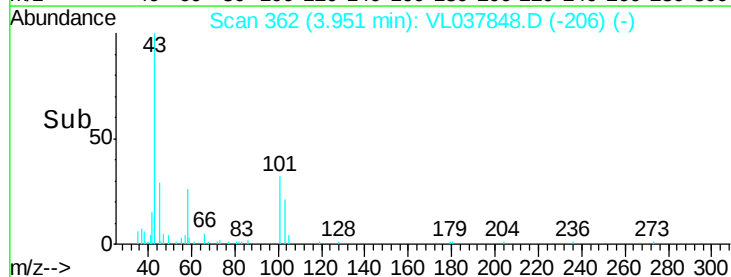
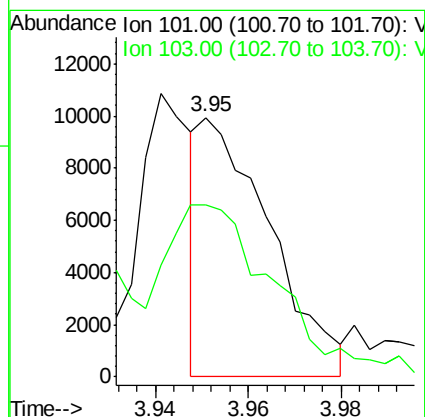
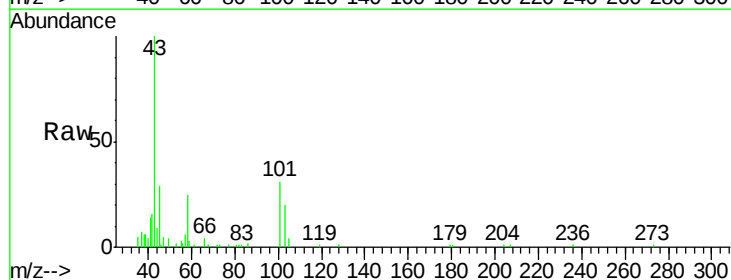
Acq: 13 Oct 2021 3:00

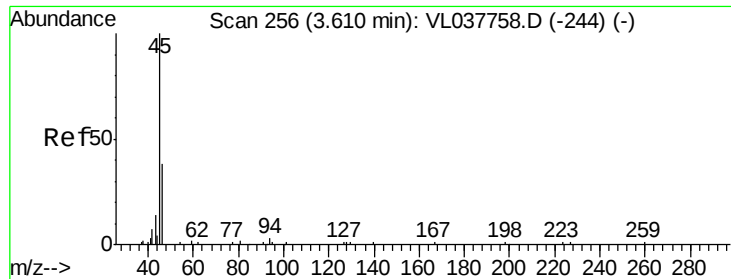
Tgt Ion: 101 Resp: 10415

Ion Ratio Lower Upper

101 100

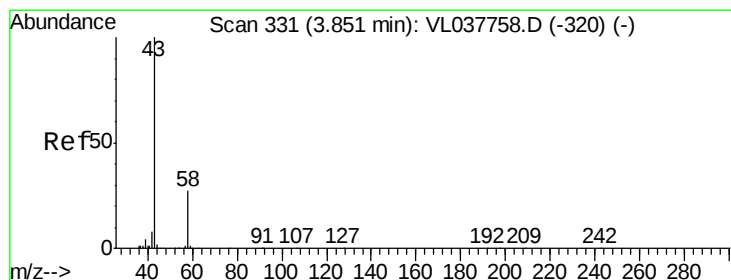
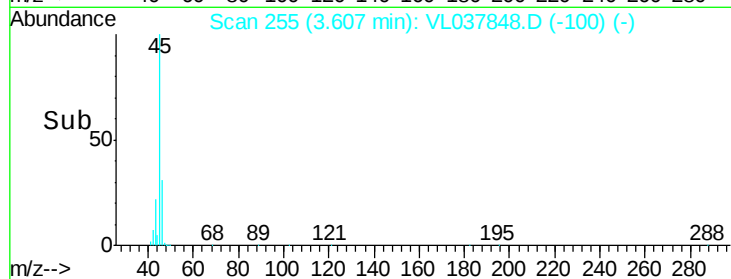
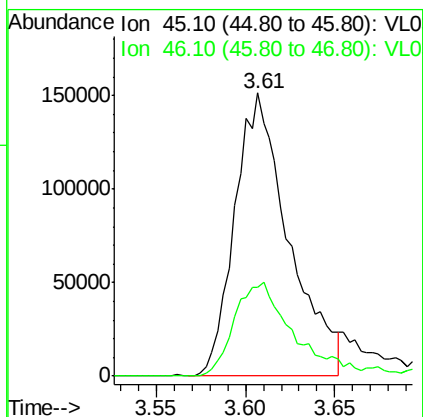
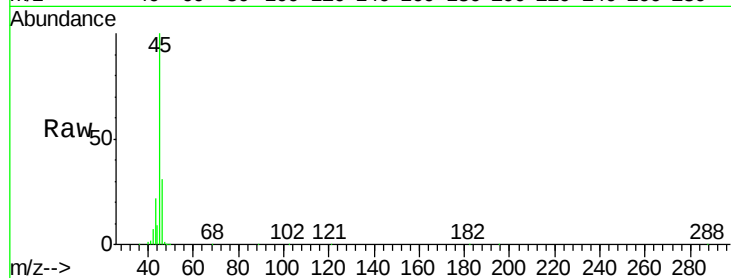
103 63.1 51.5 77.3





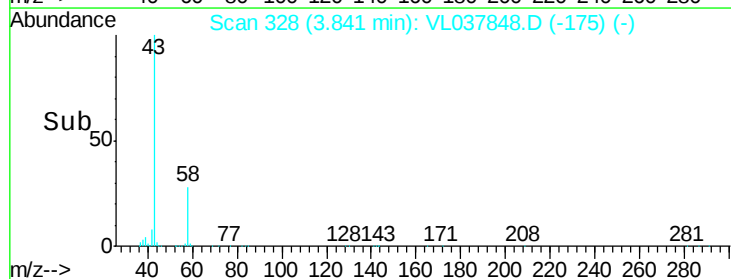
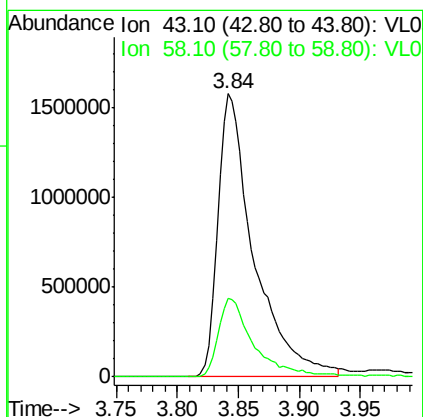
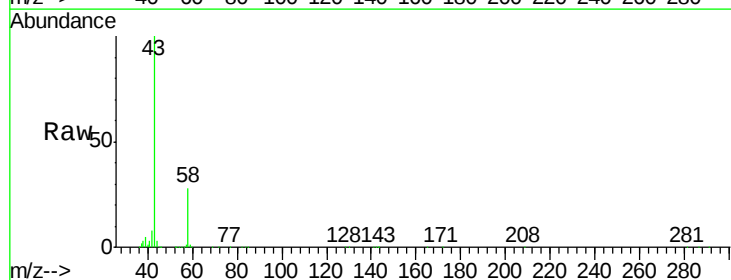
#13
Ethanol
Concen: 42.552 ppbv
RT: 3.61
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Oct 2021 3:00

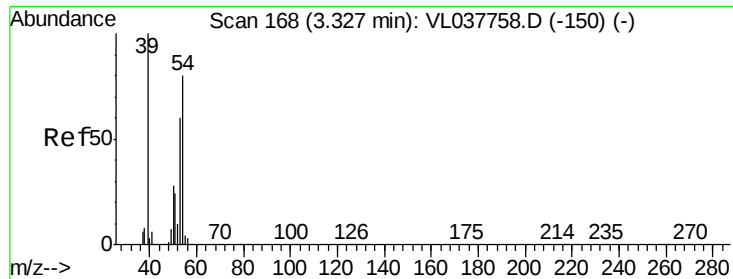
Tgt Ion: 45 Resp: 318836
Ion Ratio Lower Upper
45 100
46 40.5 20.2 81.0



#15
Acetone
Concen: 28.135 ppbv
RT: 3.84 min Scan# 328
Delta R.T.: -0.01 min
Lab File: VL037848.D
Acq: 13 Oct 2021 3:00

Tgt Ion: 43 Resp: 3273148
Ion Ratio Lower Upper
43 100
58 27.6 23.0 34.6





#16

1,3-Butadiene

Concen: 1.100 ppbv

RT: 3.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

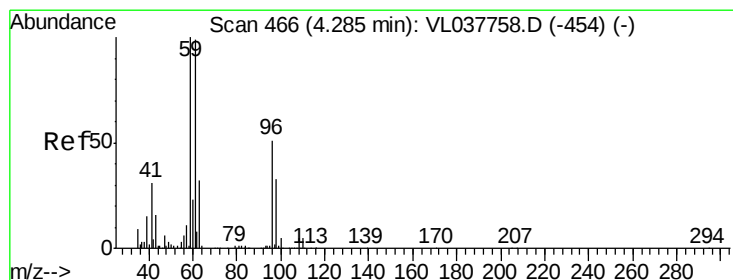
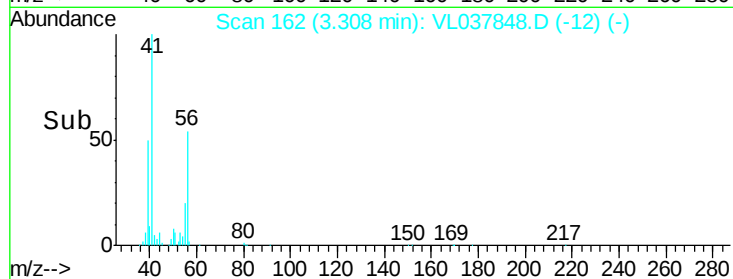
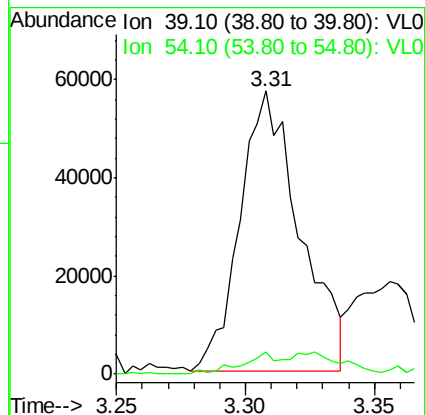
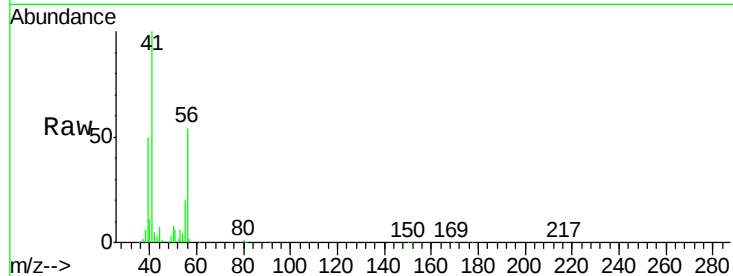
Acq: 13 Oct 2021 3:00

Tgt Ion: 39 Resp: 93137

Ion Ratio Lower Upper

39 100

54 12.2 61.7 92.5#



#17

tert-Butyl alcohol

Concen: 0.353 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.02 min

Lab File: VL037848.D

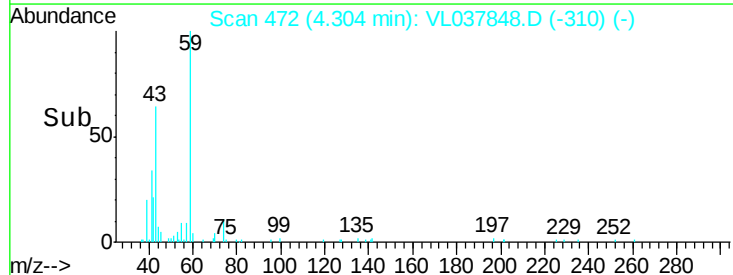
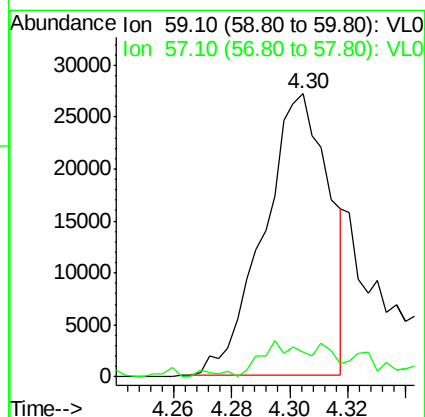
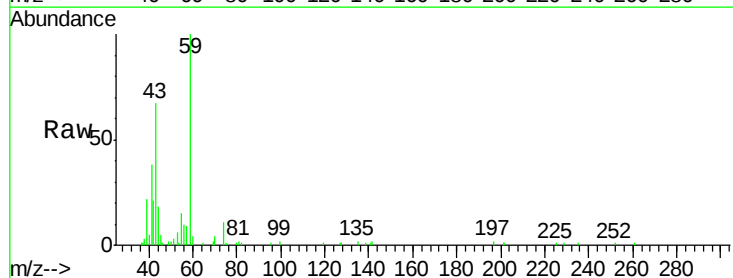
Acq: 13 Oct 2021 3:00

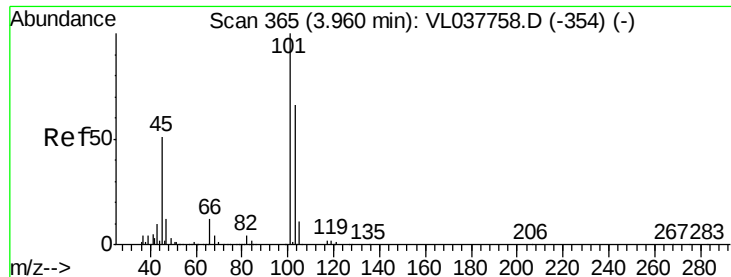
Tgt Ion: 59 Resp: 42243

Ion Ratio Lower Upper

59 100

57 16.4 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 2.185 ppbv

RT: 3.97

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

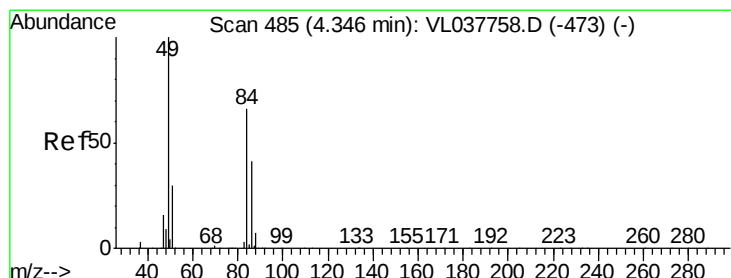
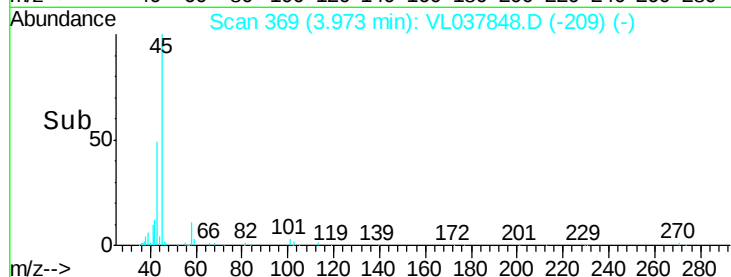
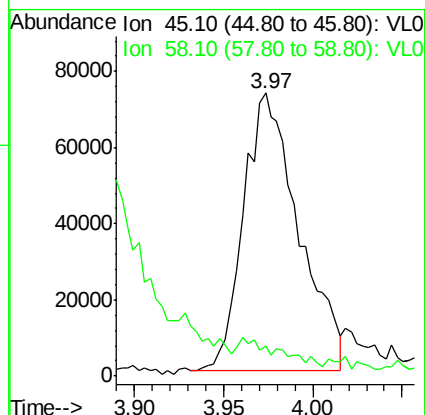
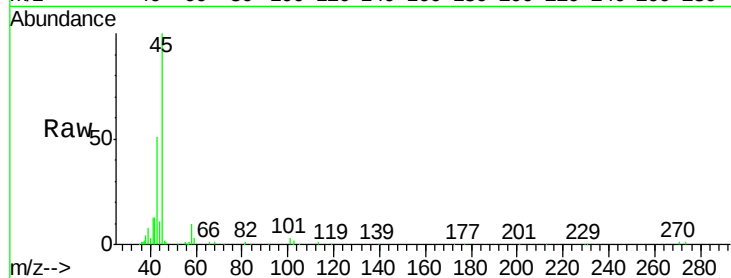
Acq: 13 Oct 2021 3:00

Tgt Ion: 45 Resp: 158127

Ion Ratio Lower Upper

45 100

58 582.8 1.1 1.7#



#20

Methylene Chloride

Concen: 4.842 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL037848.D

Acq: 13 Oct 2021 3:00

Tgt Ion: 84 Resp: 284595

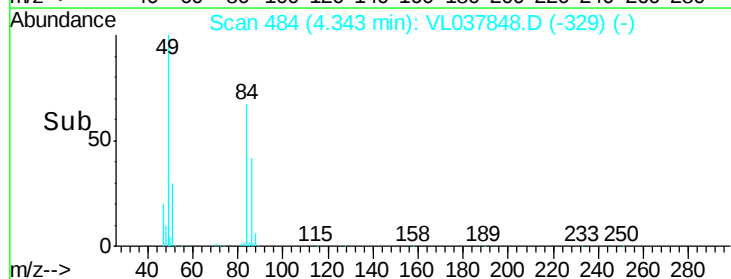
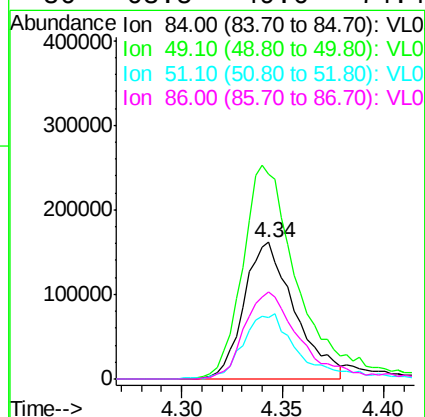
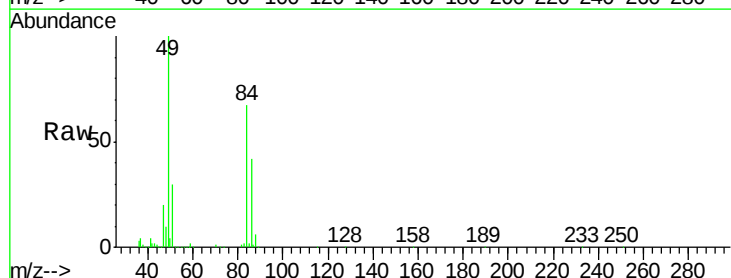
Ion Ratio Lower Upper

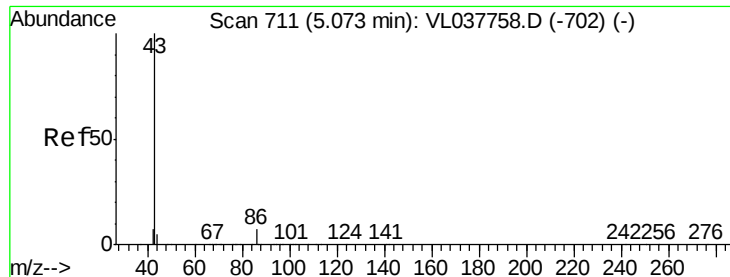
84 100

49 149.4 120.7 181.1

51 44.8 36.2 54.4

86 63.5 49.6 74.4





#23

Vinyl Acetate

Concen: 0.067 ppbv

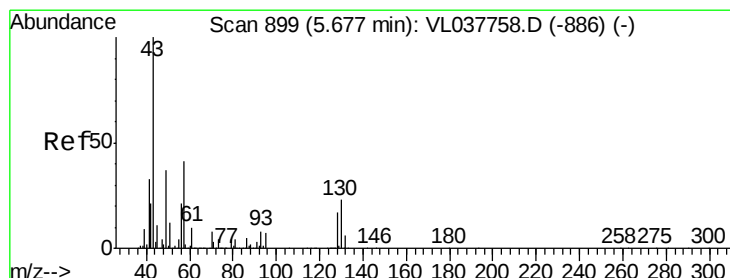
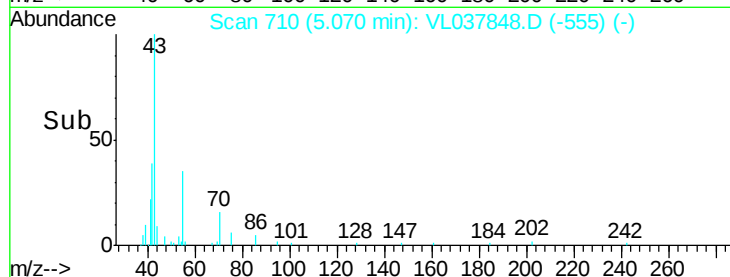
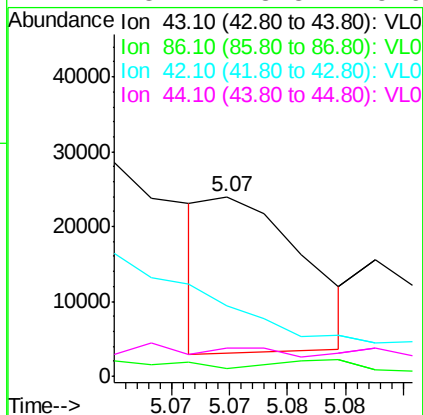
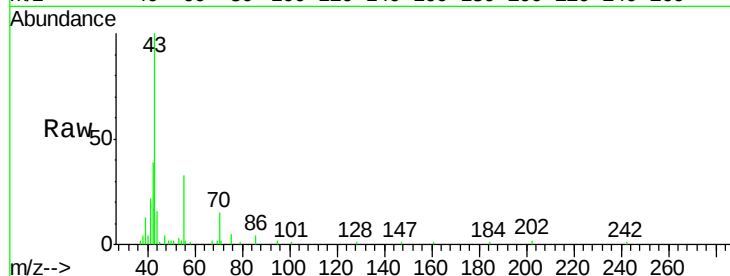
RT: 5.07 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: VIBLK

Acq: 13 Oct 2021 3:00

Tgt Ion:	43	Resp:	11717
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.4#
42	32.9	7.4	11.0#
44	8.4	3.8	5.6#



#25

Ethyl Acetate

Concen: 2.176 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL037848.D

Acq: 13 Oct 2021 3:00

Tgt Ion:	43	Resp:	710461
Ion	Ratio	Lower	Upper
43	100		
45	11.8	8.1	12.1
61	10.5	7.5	11.3
70	9.1	5.9	8.9#

