

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL122921\
 Data File : VL038245.D
 Acq On : 29 Dec 2021 23:15
 Operator : SY/AP
 Sample : M5252-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Quant Time: Dec 30 06:22:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	659257	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1598305	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	1346788	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1022907	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

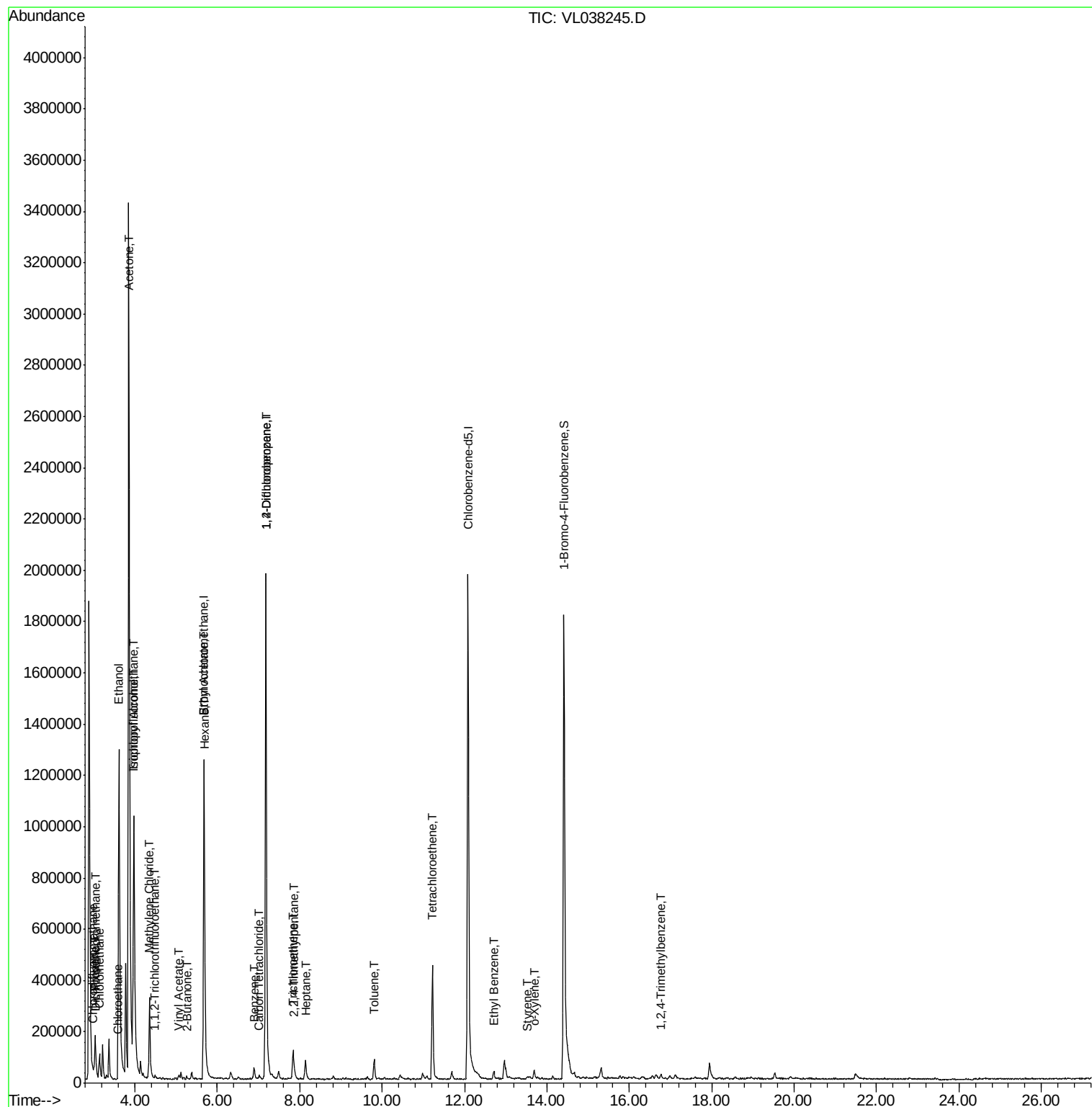
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	26715	0.215	ppbv	99
3) Chlorodifluoromethane	3.00	51	57521	0.415	ppbv #	81
4) Chloromethane	3.15	50	9247	0.193	ppbv #	88
7) Chloroethane	3.56	64	1000	0.062	ppbv #	45
9) Propene	3.03	41	49978	1.039	ppbv #	72
10) Heptane	8.13	43	6776	0.056	ppbv #	63
11) Trichlorofluoromethane	3.96	101	315255	2.763	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2723	0.032	ppbv #	13
13) Ethanol	3.61	45	1838856	225.487	ppbv #	100
15) Acetone	3.85	43	4618628	69.806	ppbv	98
19) Isopropyl Alcohol	3.97	45	1156251	28.018	ppbv #	1
20) Methylene Chloride	4.35	84	127602	3.416	ppbv	97
23) Vinyl Acetate	5.07	43	9187	0.103	ppbv #	30
25) Ethyl Acetate	5.68	43	132942	0.742	ppbv #	96
26) Hexane	5.69	57	85180	0.947	ppbv #	74
34) 2-Butanone	5.25	43	5854	0.122	ppbv #	1
35) Carbon Tetrachloride	7.02	117	4877	0.049	ppbv #	47
36) Benzene	6.89	78	35392	0.237	ppbv	96
38) Trichloroethene	7.84	130	32327	0.570	ppbv	95
39) 1,2-Dichloropropane	7.18	63	430669	7.506	ppbv #	26
44) 2,2,4-Trimethylpentane	7.87	57	25278	0.100	ppbv #	63
52) Tetrachloroethene	11.22	164	60012	1.091	ppbv	91
53) Toluene	9.81	91	52630	0.306	ppbv	99
58) Ethyl Benzene	12.72	91	22344	0.107	ppbv	98
60) o-Xylene	13.69	91	25646	0.155	ppbv	96
61) Styrene	13.53	104	2689	0.032	ppbv #	19
74) 1,2,4-Trimethylbenzene	16.76	105	10396	0.058	ppbv #	77

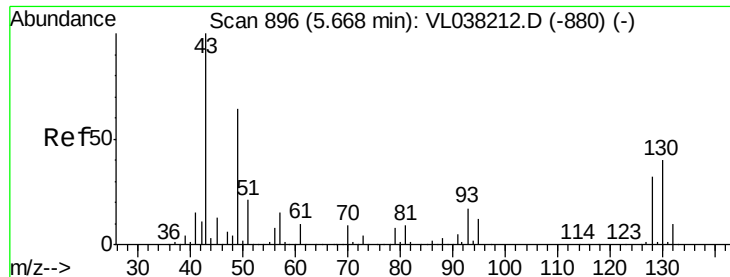
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 23:15

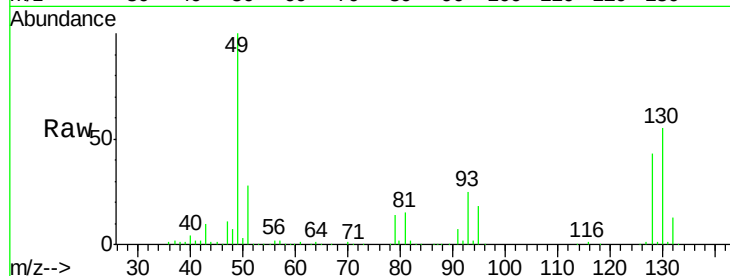
Tgt Ion: 49 Resp: 659257

Ion Ratio Lower Upper

49 100

128 45.1 26.9 80.6

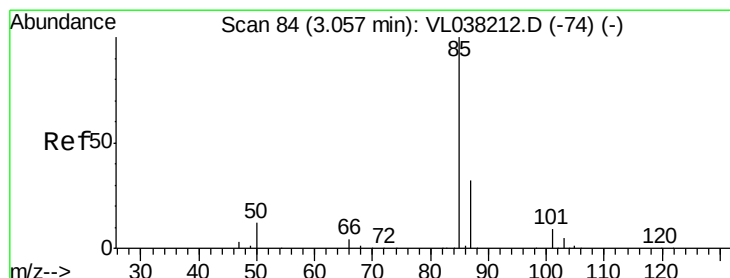
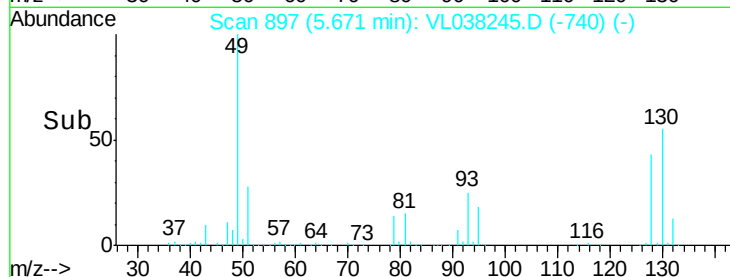
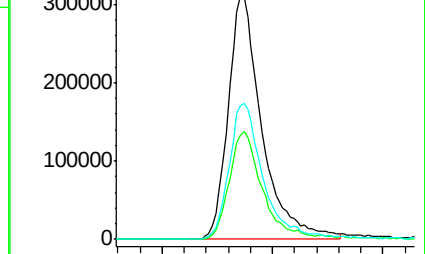
130 58.2 32.3 96.9



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: 0.215 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038245.D

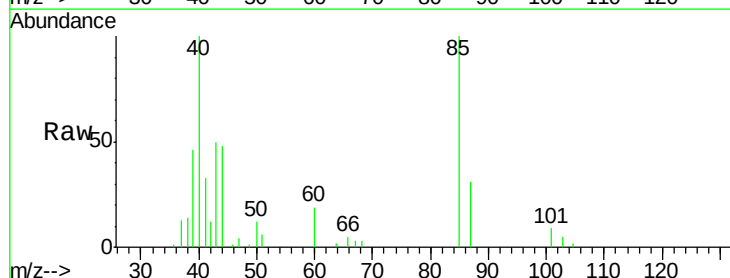
Acq: 29 Dec 2021 23:15

Tgt Ion: 85 Resp: 26715

Ion Ratio Lower Upper

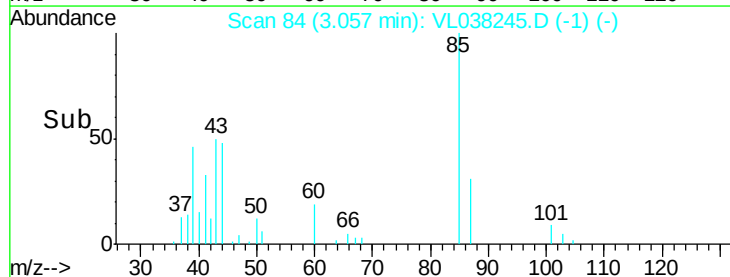
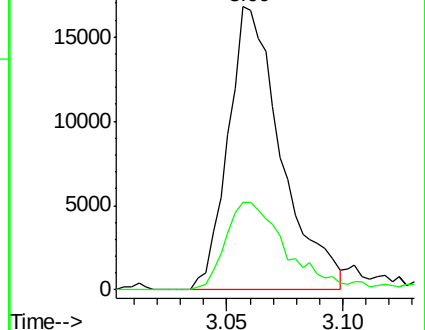
85 100

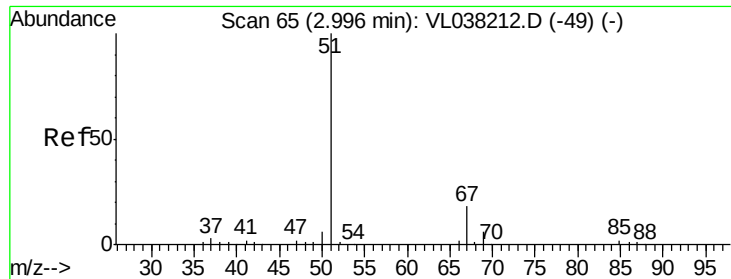
87 31.1 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.415 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

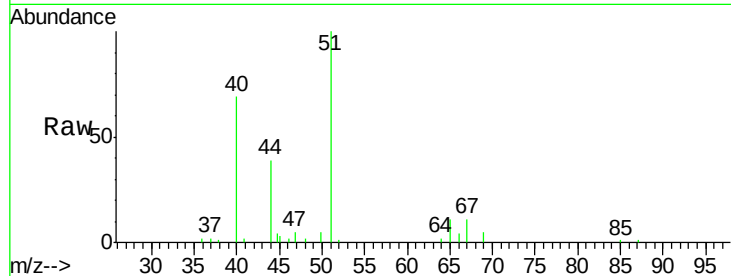
Acq: 29 Dec 2021 23:15

Tgt Ion: 51 Resp: 57521

Ion Ratio Lower Upper

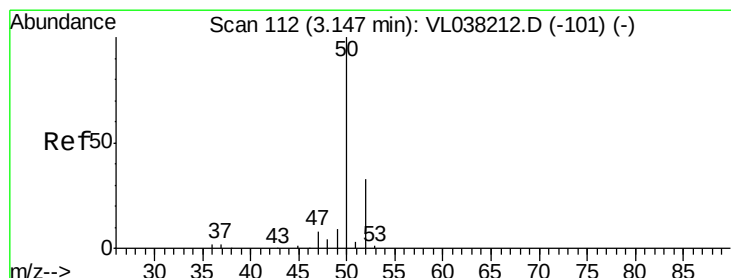
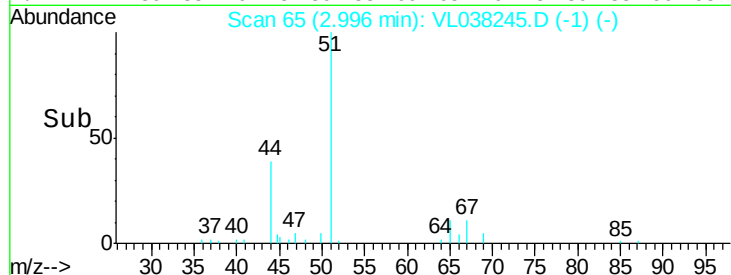
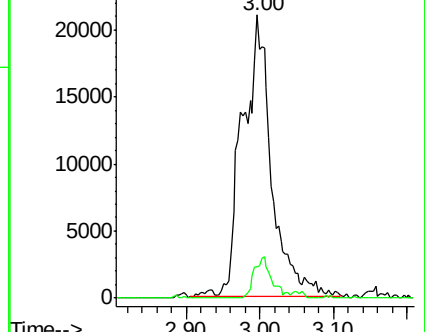
51 100

67 9.0 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.193 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL038245.D

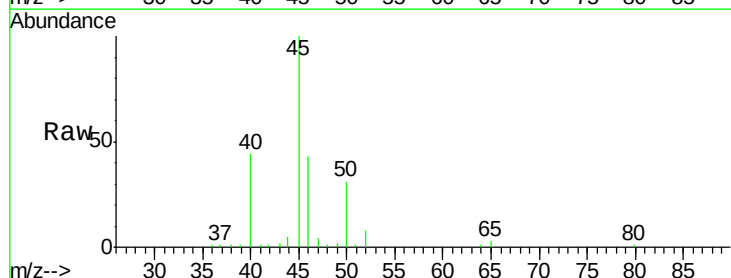
Acq: 29 Dec 2021 23:15

Tgt Ion: 50 Resp: 9247

Ion Ratio Lower Upper

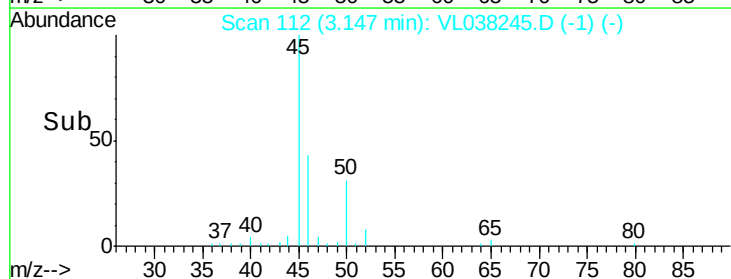
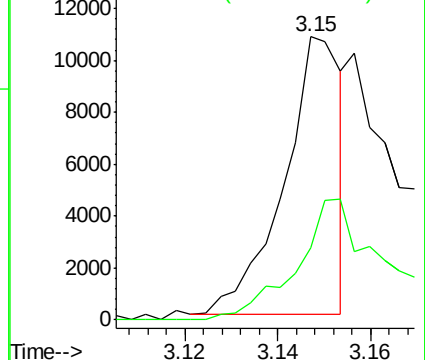
50 100

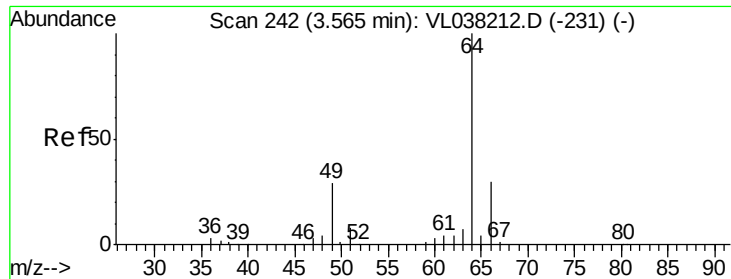
52 26.1 26.2 39.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.062 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

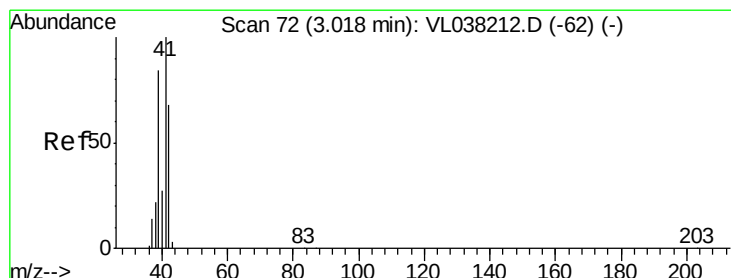
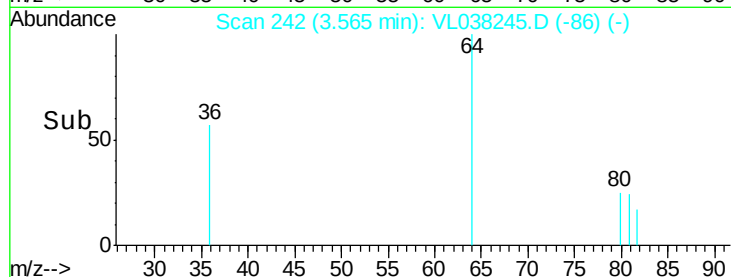
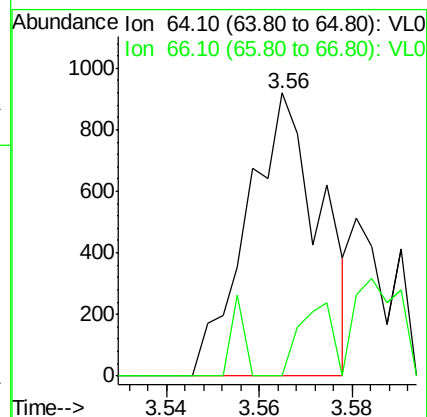
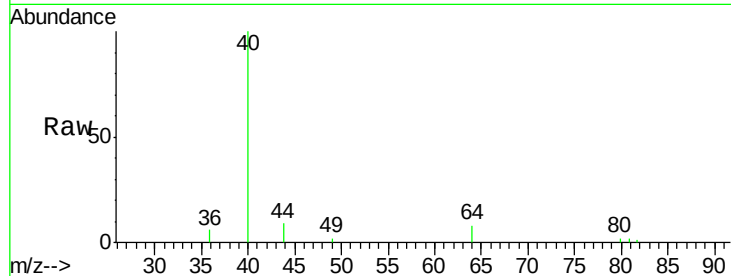
Acq: 29 Dec 2021 23:15

Tgt Ion: 64 Resp: 1000

Ion Ratio Lower Upper

64 100

66 0.0 23.6 35.4#



#9

Propene

Concen: 1.039 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.01 min

Lab File: VL038245.D

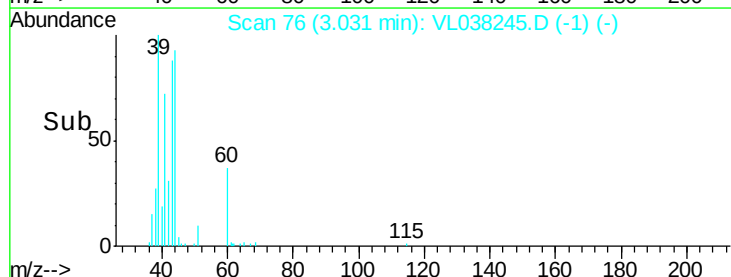
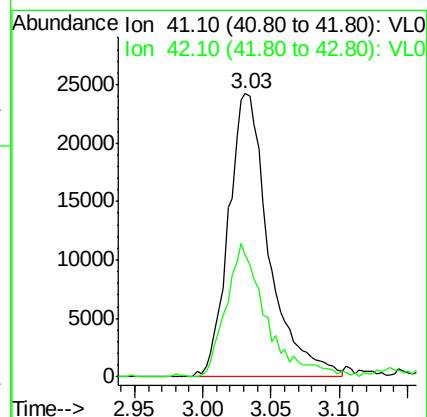
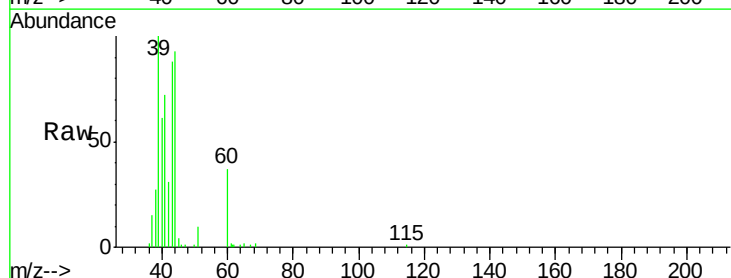
Acq: 29 Dec 2021 23:15

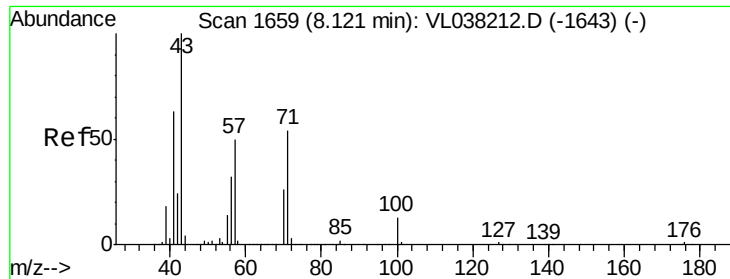
Tgt Ion: 41 Resp: 49978

Ion Ratio Lower Upper

41 100

42 46.6 55.5 83.3#





#10

Heptane

Concen: 0.056 ppbv

RT: 8.13 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: IA-1DUP

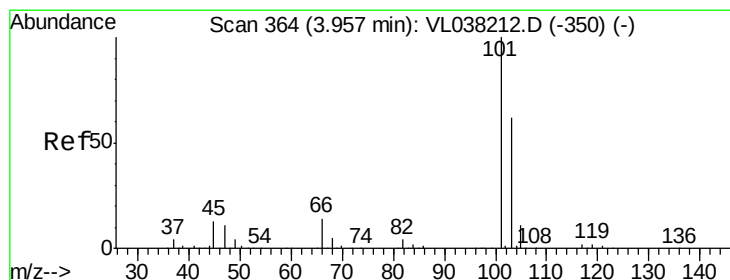
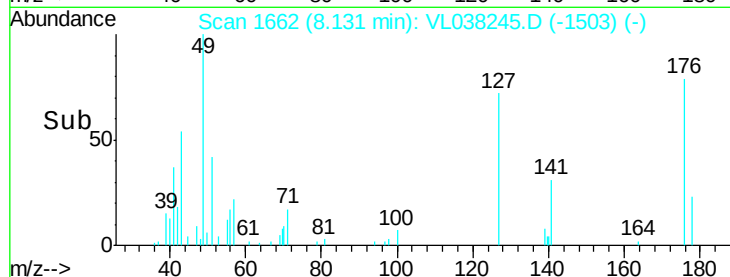
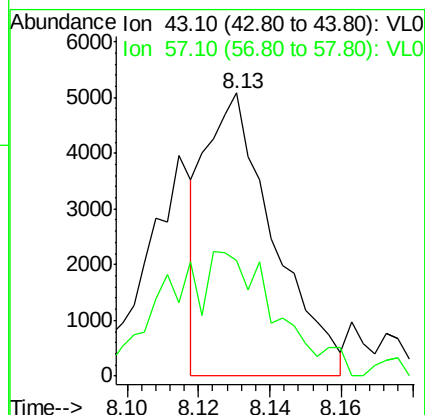
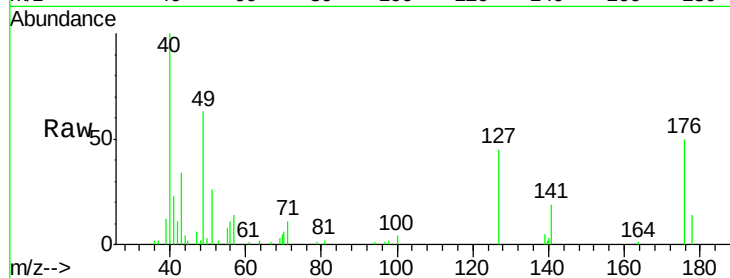
Acq: 29 Dec 2021 23:15

Tgt Ion: 43 Resp: 6776

Ion Ratio Lower Upper

43 100

57 76.0 40.3 60.5#



#11

Trichlorofluoromethane

Concen: 2.763 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.00 min

Lab File: VL038245.D

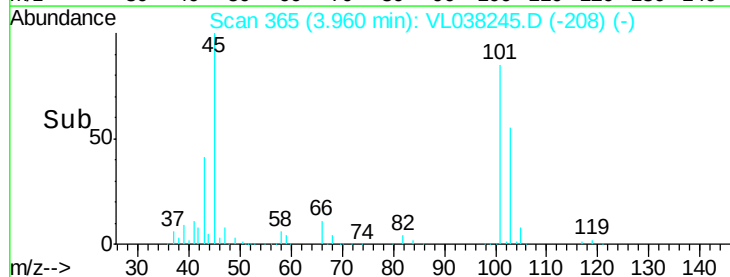
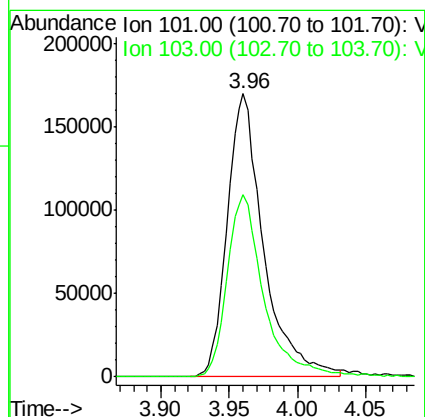
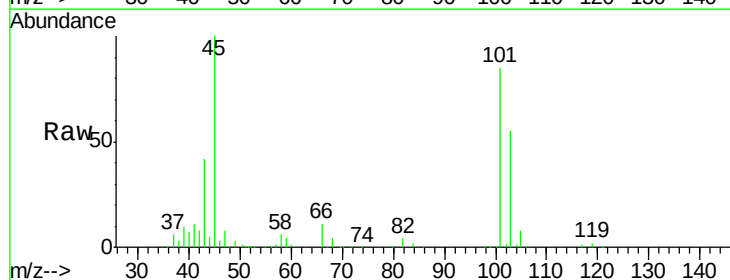
Acq: 29 Dec 2021 23:15

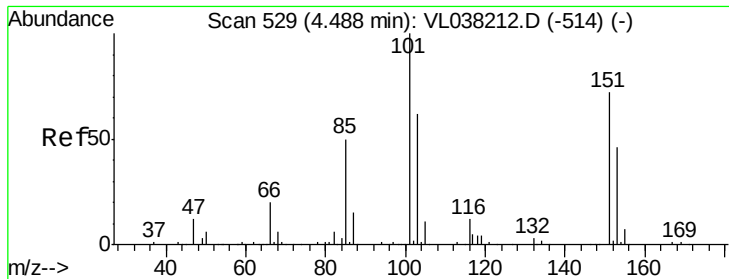
Tgt Ion: 101 Resp: 315255

Ion Ratio Lower Upper

101 100

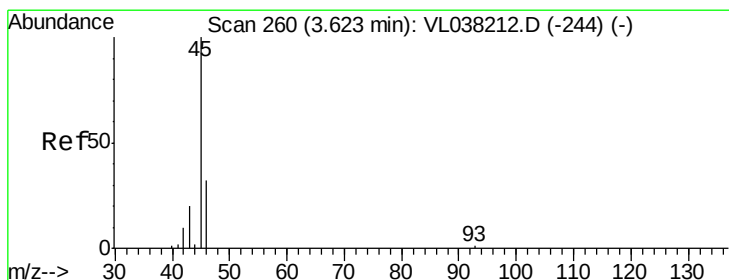
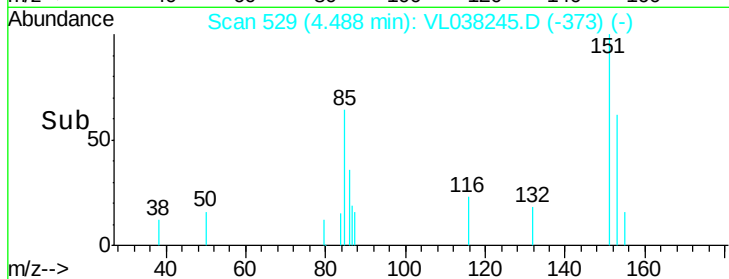
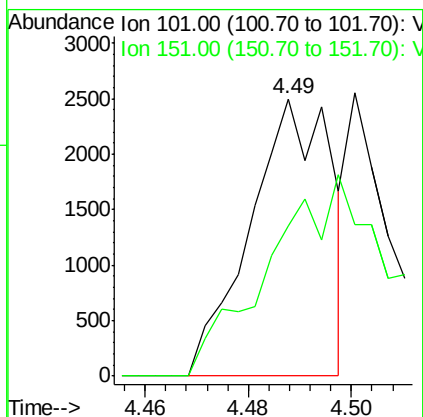
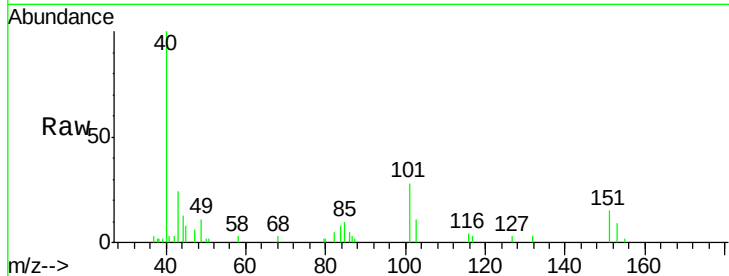
103 64.4 49.9 74.9





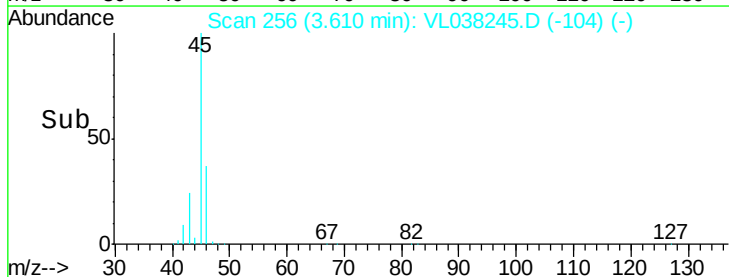
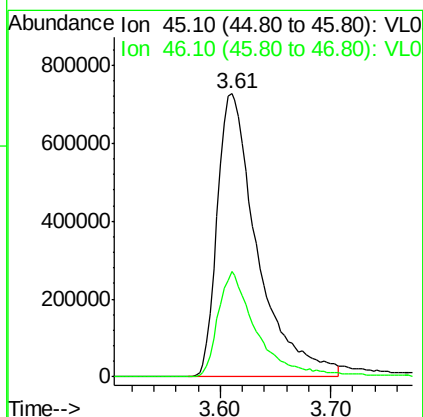
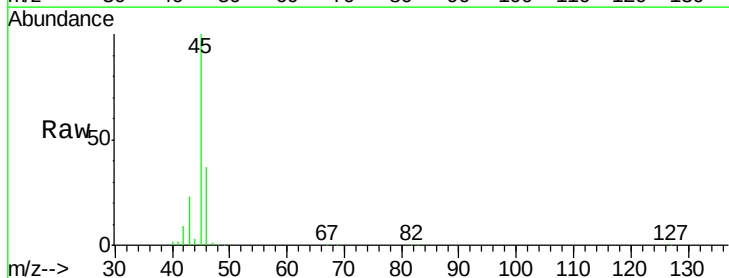
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.032 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 29 Dec 2021 23:15

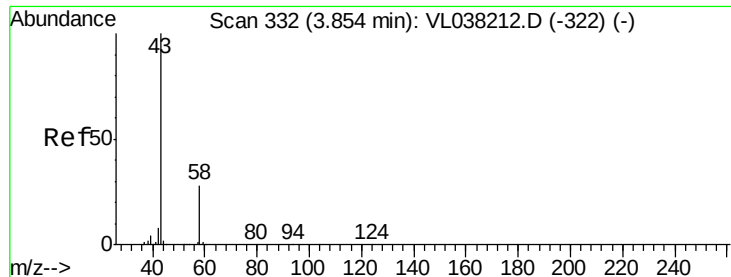
Tgt Ion: 101 Resp: 2723
 Ion Ratio Lower Upper
 101 100
 151 0.0 58.6 87.8#



#13
 Ethanol
 Concen: 225.487 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. -0.01 min
 Lab File: VL038245.D
 Acq: 29 Dec 2021 23:15

Tgt Ion: 45 Resp: 1838856
 Ion Ratio Lower Upper
 45 100
 46 36.9 0.0 0.0#





#15

Acetone

Concen: 69.806 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

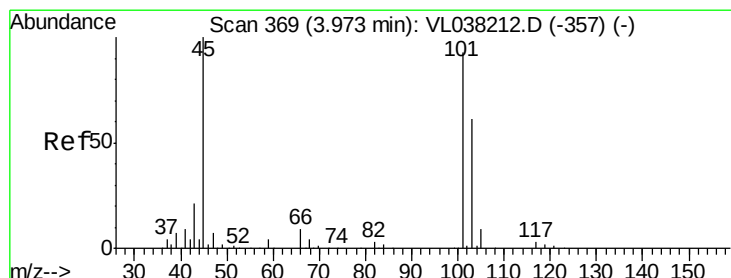
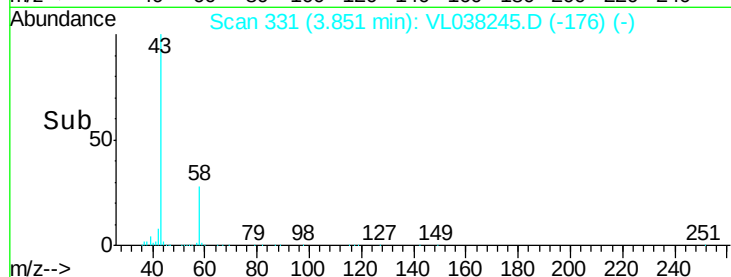
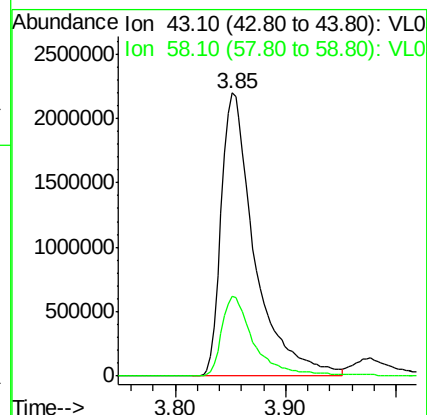
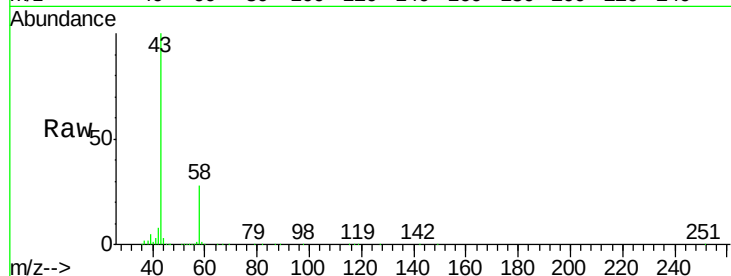
Acq: 29 Dec 2021 23:15

Tgt Ion: 43 Resp: 4618628

Ion Ratio Lower Upper

43 100

58 28.3 23.3 34.9



#19

Isopropyl Alcohol

Concen: 28.018 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.00 min

Lab File: VL038245.D

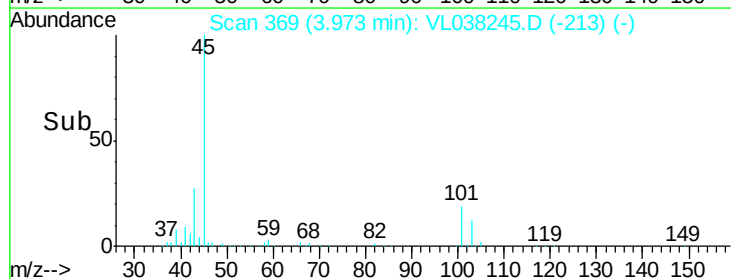
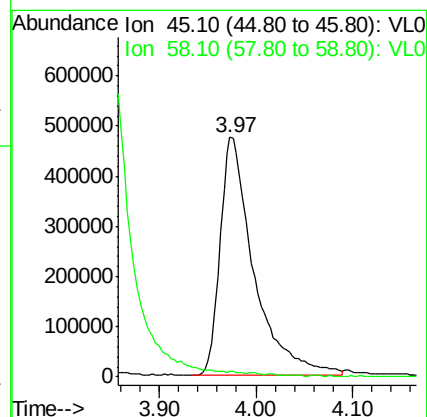
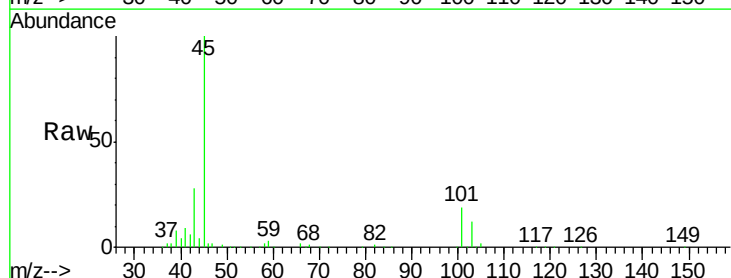
Acq: 29 Dec 2021 23:15

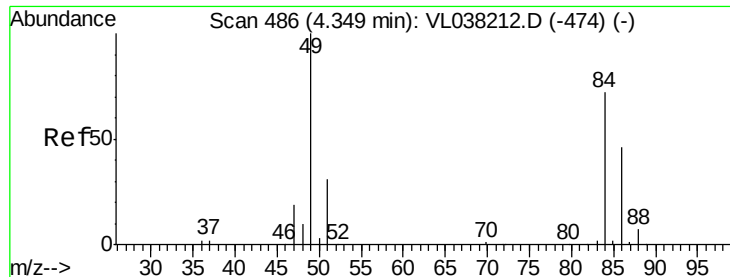
Tgt Ion: 45 Resp: 1156251

Ion Ratio Lower Upper

45 100

58 112.9 32.4 48.6#





#20

Methylene Chloride

Concen: 3.416 ppbv

RT: 4.35 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-1DUP

Acq: 29 Dec 2021 23:15

Tgt Ion: 84 Resp: 127602

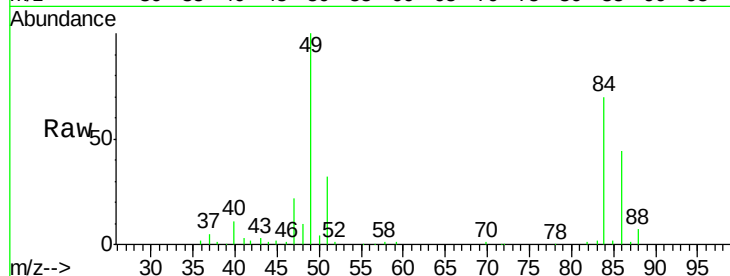
Ion Ratio Lower Upper

84 100

49 143.1 110.6 166.0

51 46.5 34.2 51.2

86 62.8 50.5 75.7

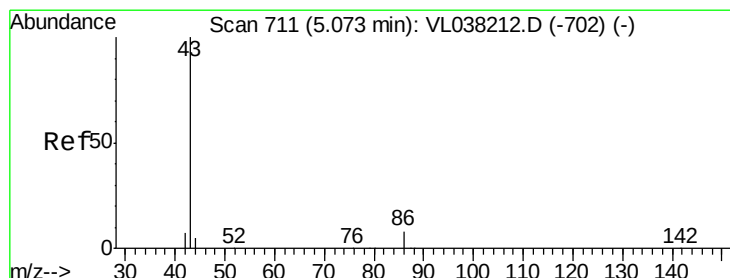
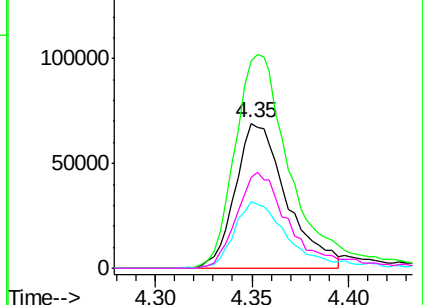
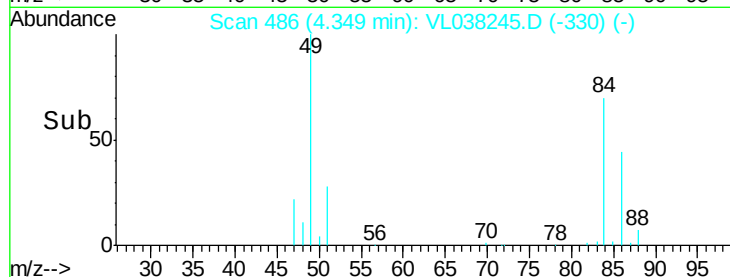


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.103 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL038245.D

Acq: 29 Dec 2021 23:15

Tgt Ion: 43 Resp: 9187

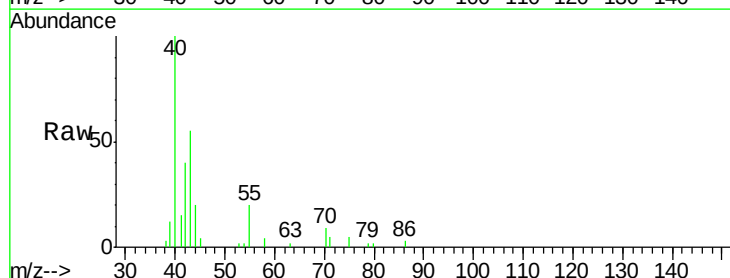
Ion Ratio Lower Upper

43 100

86 5.5 5.6 8.4#

42 61.4 7.0 10.4#

44 13.7 3.9 5.9#

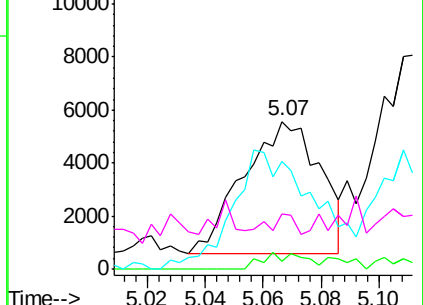
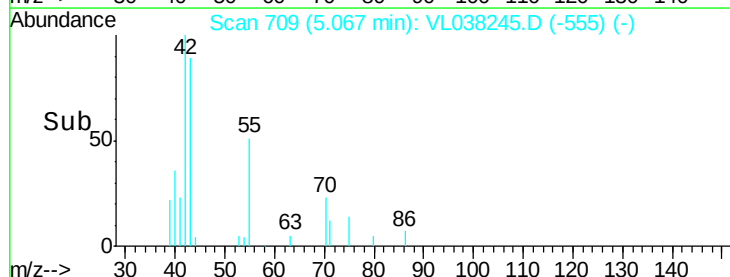


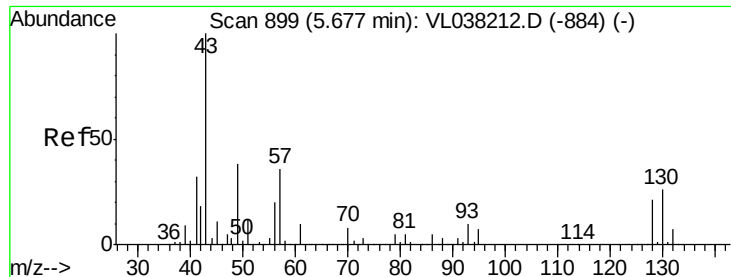
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

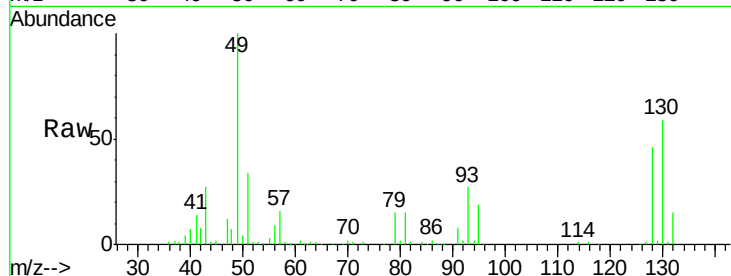
Ion 44.10 (43.80 to 44.80): VL0





#25
Ethyl Acetate
Concen: 0.742 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 29 Dec 2021 23:15

Tgt Ion:	43	Resp:	132942
Ion	Ratio	Lower	Upper
43	100		
45	9.4	7.9	11.9
61	7.3	8.1	12.1#
70	6.0	5.5	8.3



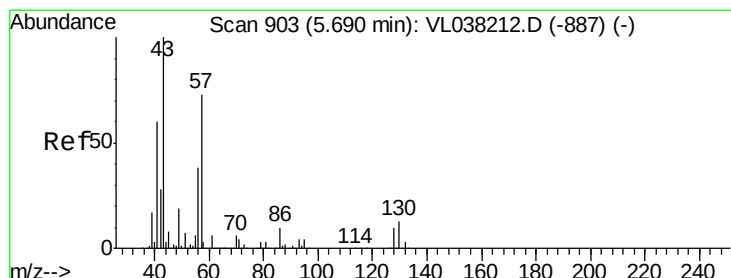
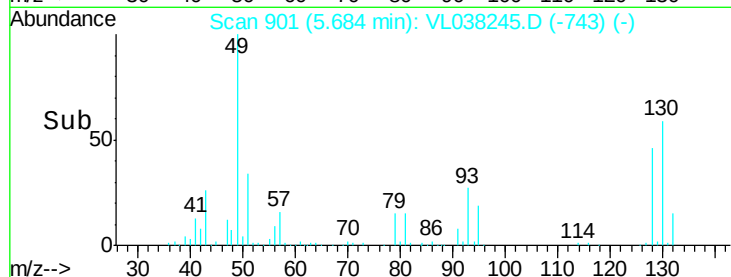
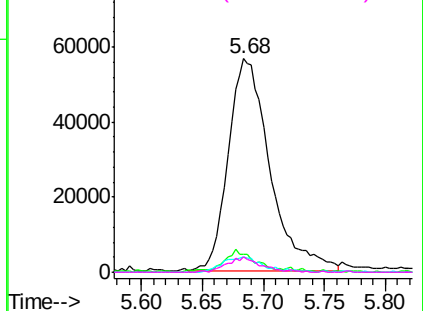
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

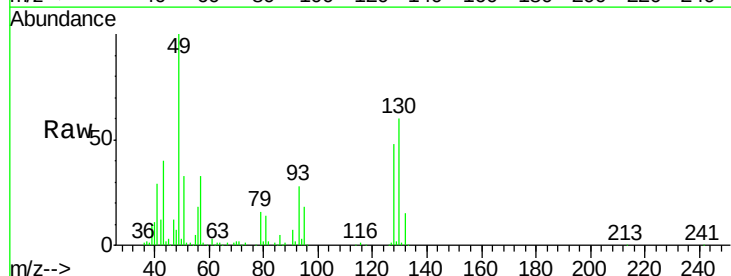
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.947 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.00 min
Lab File: VL038245.D
Acq: 29 Dec 2021 23:15

Tgt Ion:	57	Resp:	85180
Ion	Ratio	Lower	Upper
57	100		
41	100.4	69.0	103.6
43	158.9	171.2	256.8#
56	56.7	41.5	62.3



Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

