

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111021\
 Data File : VL038016.D
 Acq On : 10 Nov 2021 20:17
 Operator : SY/AP
 Sample : M4598-04DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 11 03:43:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1429203	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	4113068	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.07	117	3598930	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2597524	9.93	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

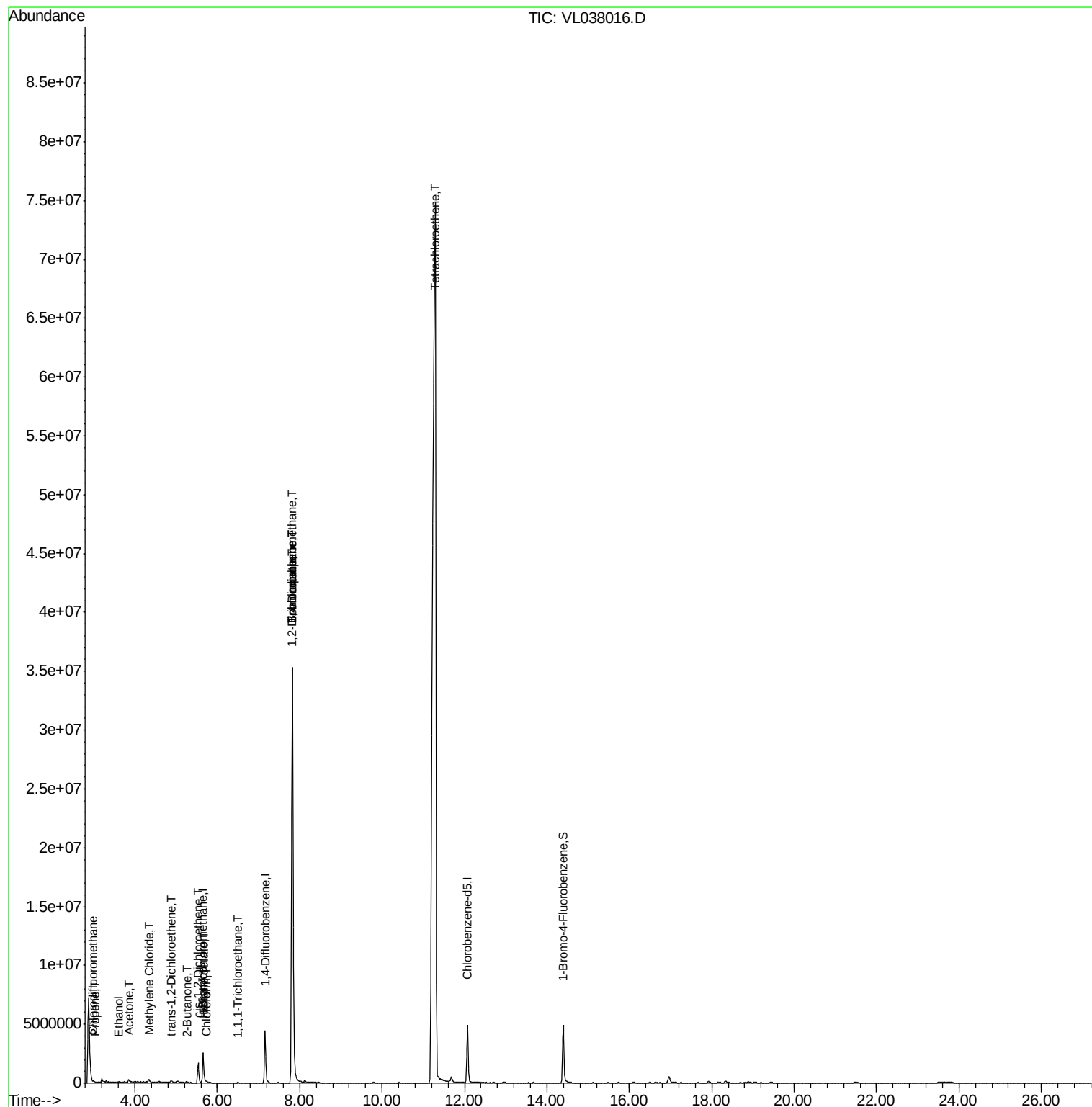
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	303631	1.141	ppbv #	92
9) Propene	3.01	41	26726	0.280	ppbv	95
13) Ethanol	3.60	45	11948	1.242	ppbv #	44
15) Acetone	3.85	43	247349	2.094	ppbv	91
20) Methylene Chloride	4.33	84	40926	0.631	ppbv	91
22) trans-1,2-Dichloroethene	4.87	96	32613	0.456	ppbv #	76
25) Ethyl Acetate	5.67	43	46806	0.133	ppbv #	79
26) Hexane	5.67	57	59212	0.356	ppbv #	47
29) Chloroform	5.73	83	57323	0.231	ppbv	93
31) cis-1,2-Dichloroethene	5.53	61	1133367	7.474	ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	9319	0.038	ppbv #	36
34) 2-Butanone	5.25	43	110831	0.727	ppbv	96
38) Trichloroethene	7.82	130	15640441	112.503	ppbv	93
39) 1,2-Dichloropropane	7.81	63	18126	0.144	ppbv #	1
40) 1,4-Dioxane	7.82	88	1065	0.032	ppbv #	1
42) Bromodichloromethane	7.83	83	85555	0.355	ppbv	94
52) Tetrachloroethene	11.29	164	43686892	343.815	ppbv	92

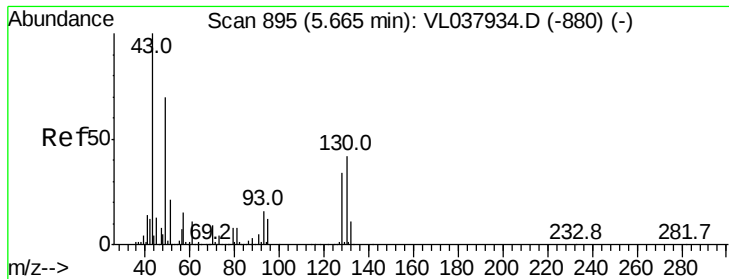
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 02 05:54:07 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 Nov 2021 20:17

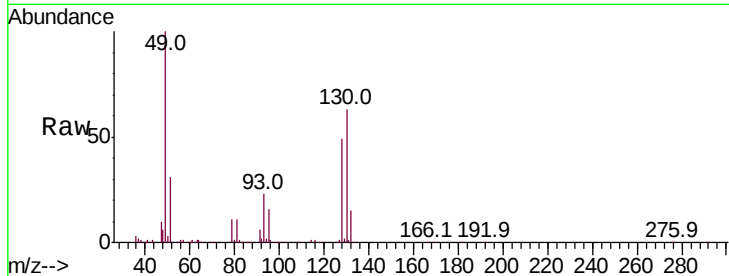
Tot Ion: 49 Resp: 1429203

Ion Ratio Lower Upper

49 100

128 51.0 27.0 81.0

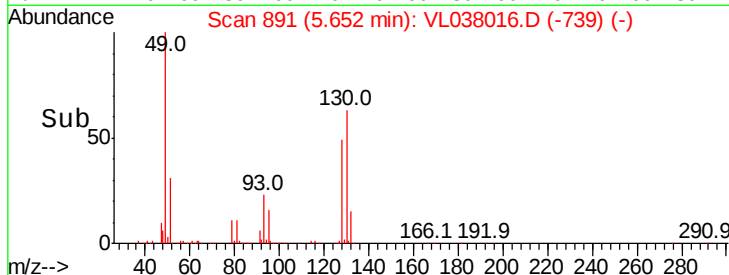
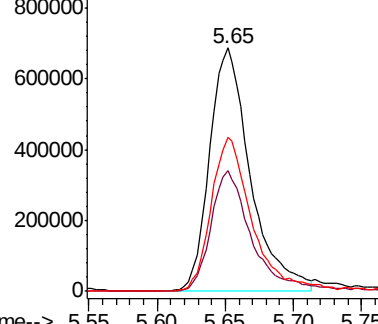
130 65.2 33.4 100.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 1.141 ppbv

RT: 2.99 min Scan# 62

Delta R.T. -0.01 min

Lab File: VL038016.D

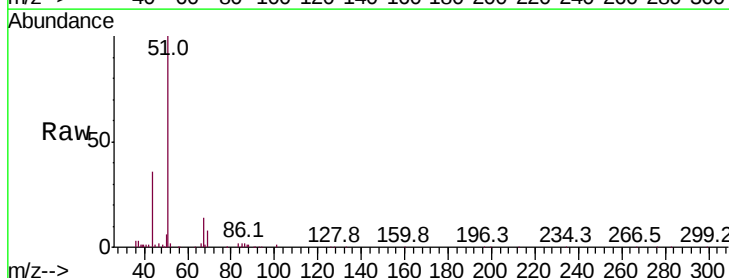
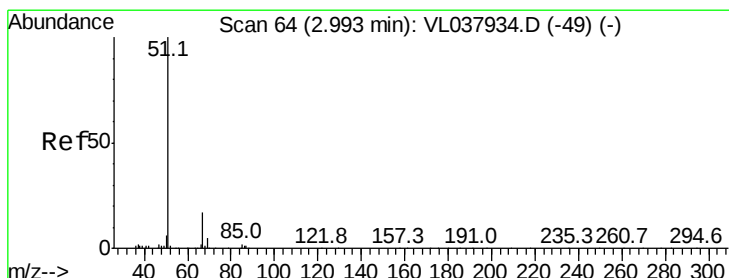
Acq: 10 Nov 2021 20:17

Tgt Ion: 51 Resp: 303631

Ion Ratio Lower Upper

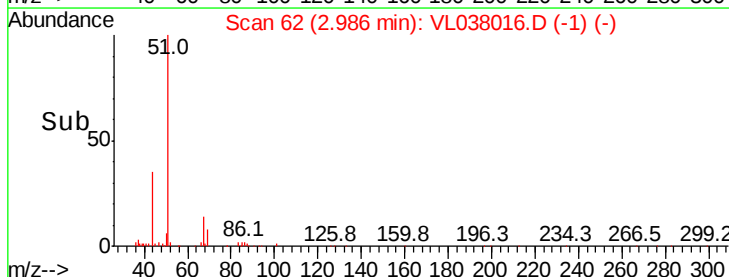
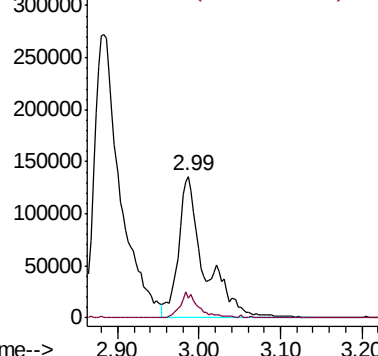
51 100

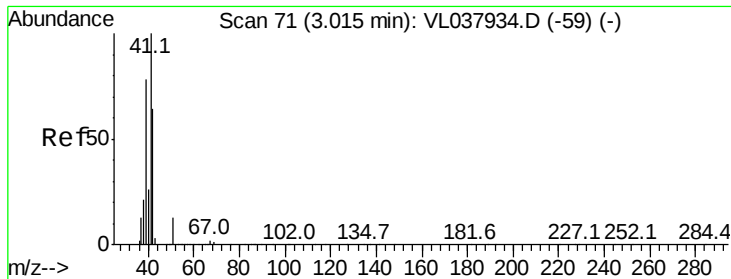
67 13.3 13.4 20.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.280 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

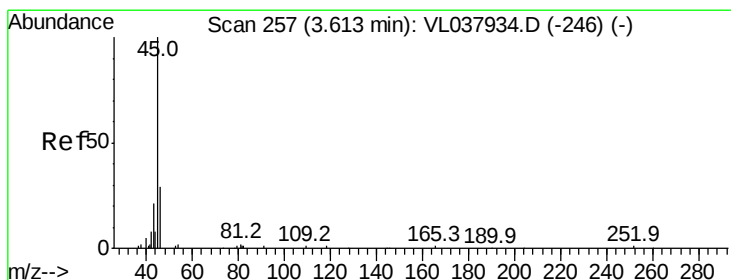
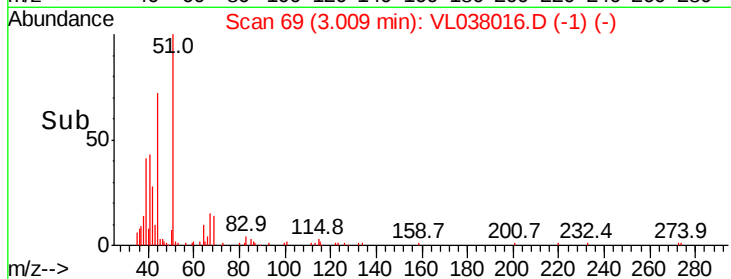
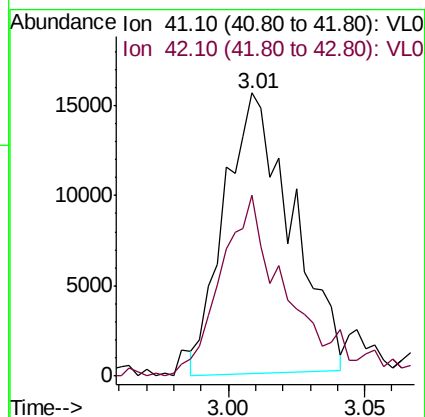
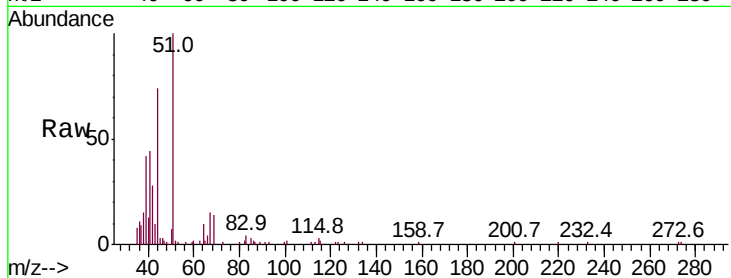
Acq: 10 Nov 2021 20:17

Tot Ion: 41 Resp: 26726

Ion Ratio Lower Upper

41 100

42 68.1 57.6 86.4



#13

Ethanol

Concen: 1.242 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL038016.D

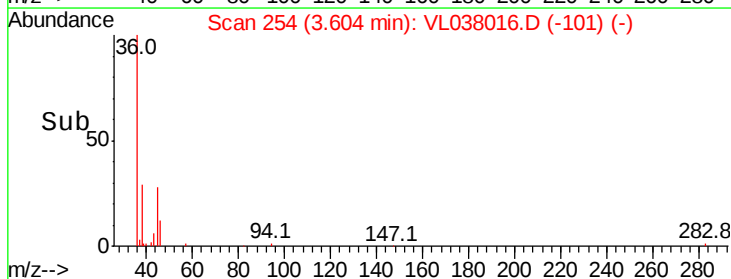
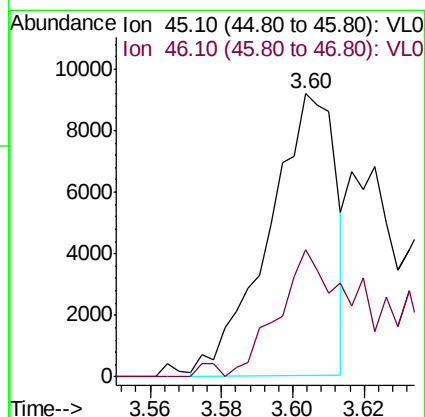
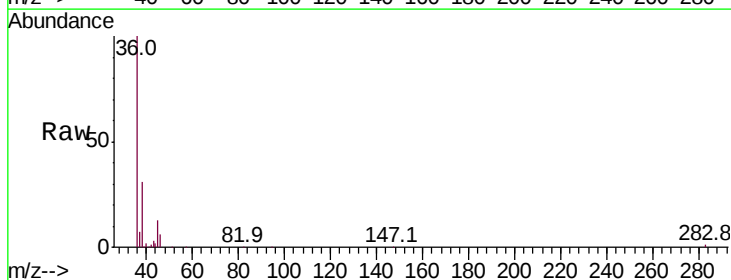
Acq: 10 Nov 2021 20:17

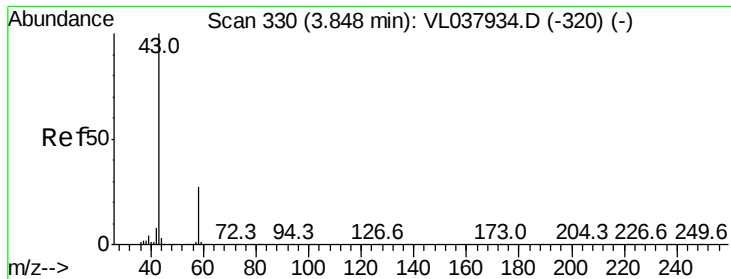
Tgt Ion: 45 Resp: 11948

Ion Ratio Lower Upper

45 100

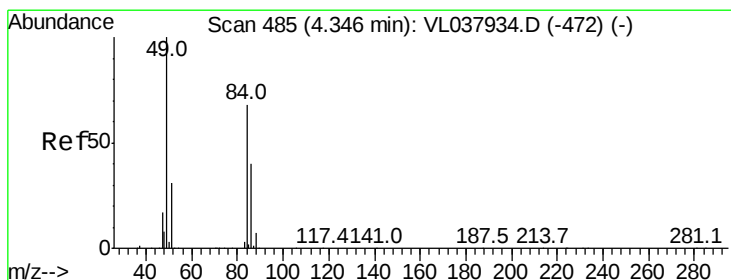
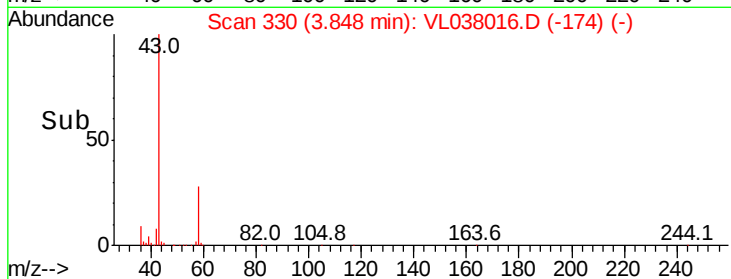
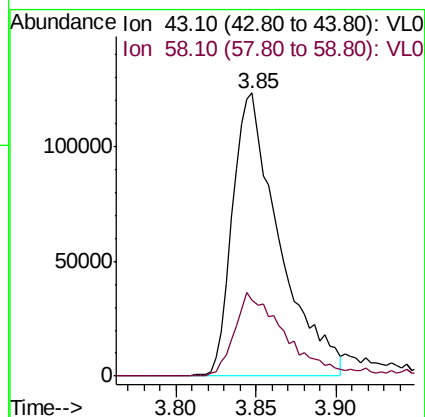
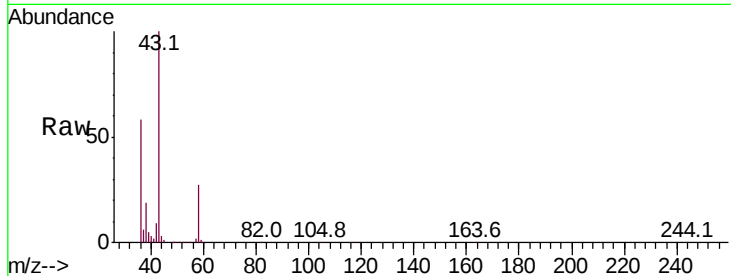
46 79.6 17.4 69.8#





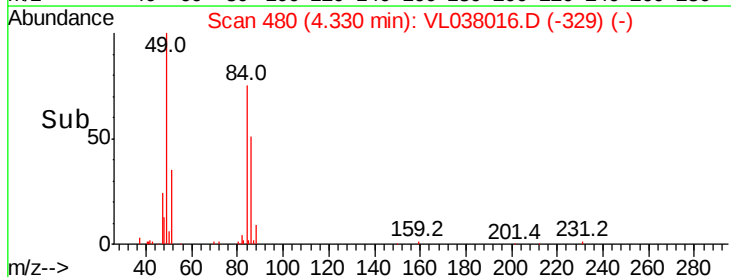
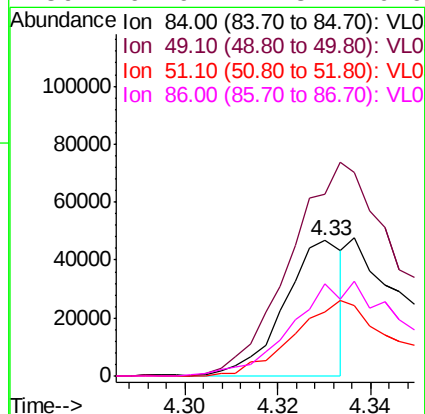
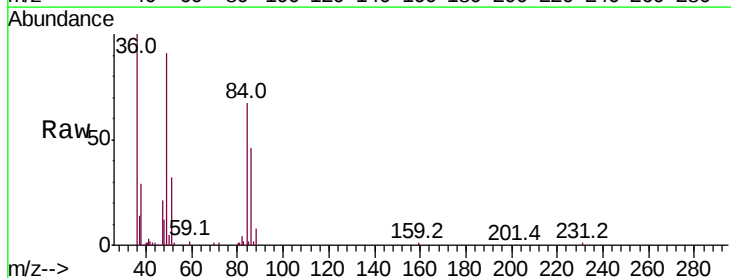
#15
 Acetone
 Concen: 2.094 ppbv
 RT: 3.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 10 Nov 2021 20:17

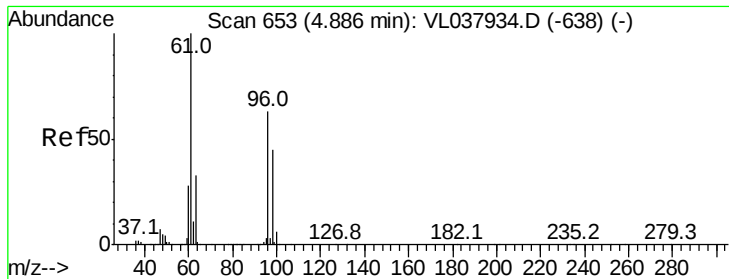
Tot Ion: 43 Resp: 247349
 Ion Ratio Lower Upper
 43 100
 58 33.7 23.3 34.9



#20
 Methylene Chloride
 Concen: 0.631 ppbv
 RT: 4.33 min Scan# 480
 Delta R.T. -0.02 min
 Lab File: VL038016.D
 Acq: 10 Nov 2021 20:17

Tgt Ion: 84 Resp: 40926
 Ion Ratio Lower Upper
 84 100
 49 134.5 117.5 176.3
 51 46.7 35.9 53.9
 86 67.9 47.3 70.9





#22

trans-1,2-Dichloroethene

Concen: 0.456 ppbv

RT: 4.87 Instrument:

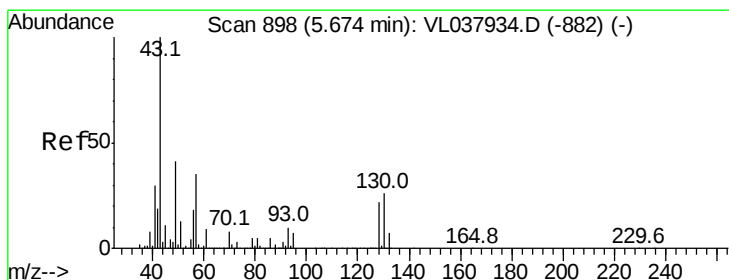
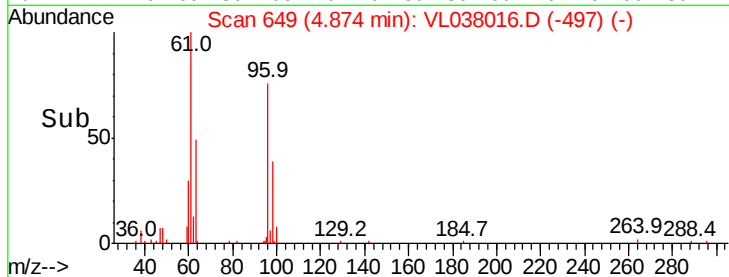
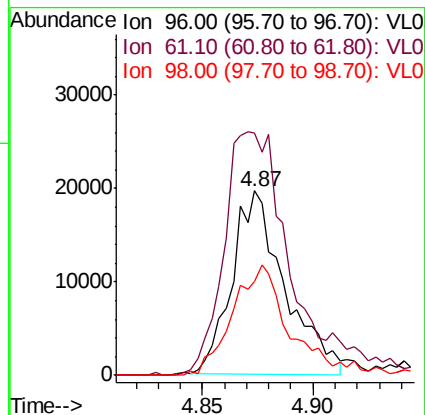
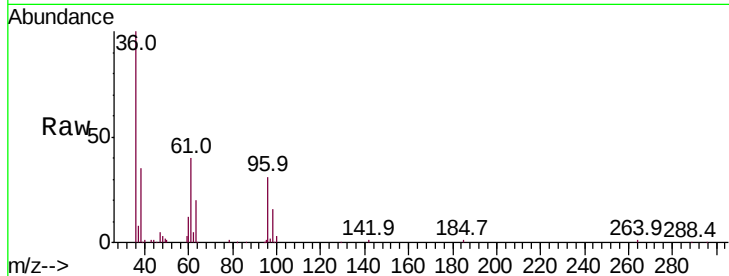
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 10 Nov 2021 20:17

Tot Ion: 96 Resp: 32613

Ion	Ratio	Lower	Upper
96	100		
61	130.3	127.8	191.6
98	49.4	56.9	85.3#



#25

Ethyl Acetate

Concen: 0.133 ppbv

RT: 5.67 min Scan# 897

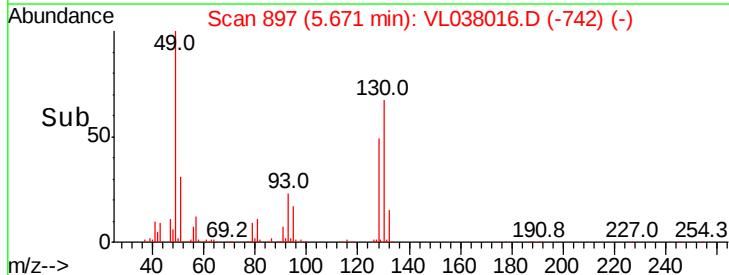
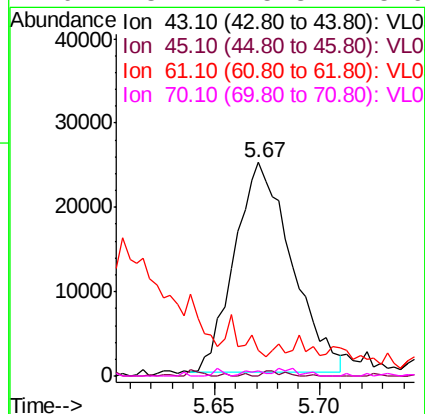
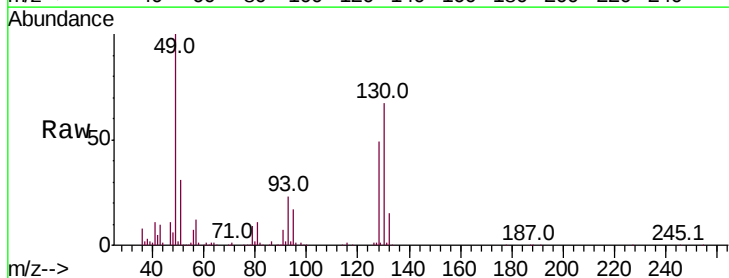
Delta R.T. -0.00 min

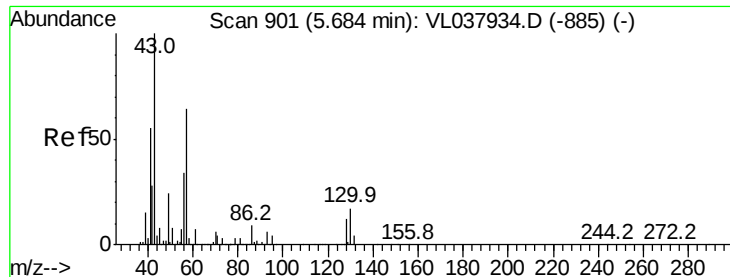
Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

Tgt Ion: 43 Resp: 46806

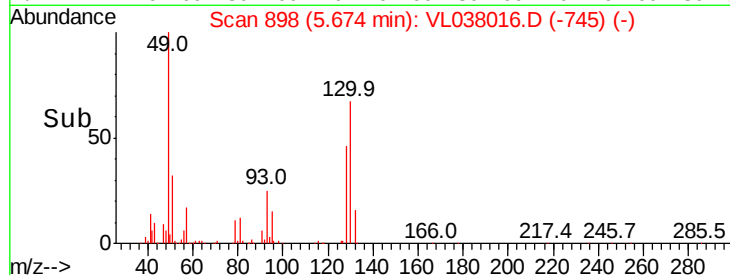
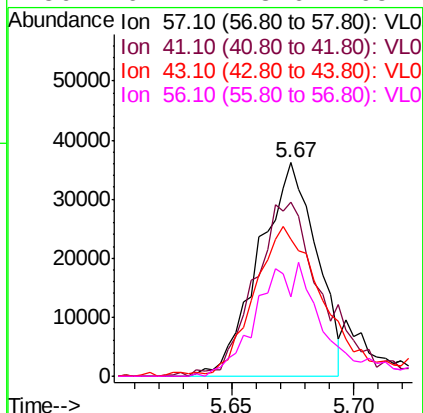
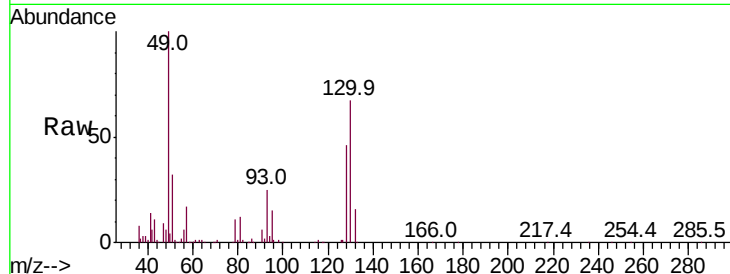
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.1	12.1#
61	0.0	8.1	12.1#
70	3.2	5.8	8.6#





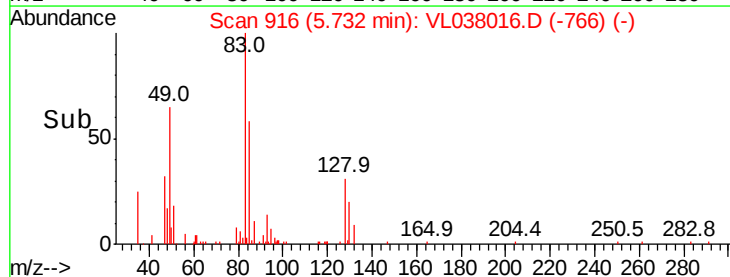
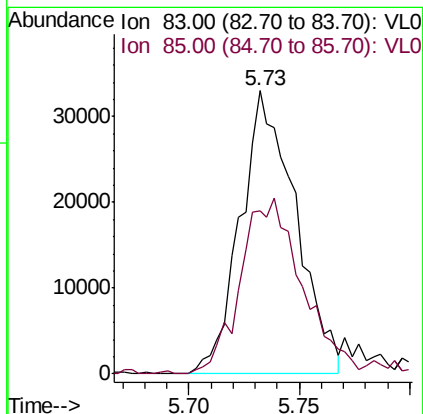
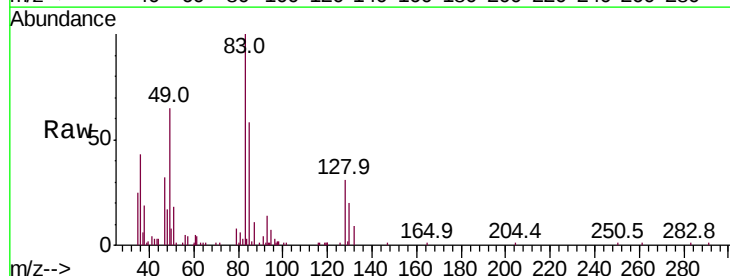
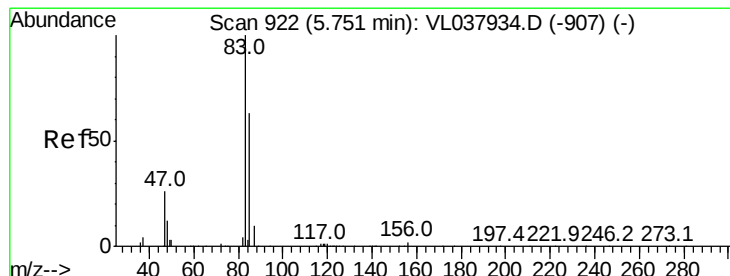
#26
Hexane
Concen: 0.356 ppbv
RT: 5.67
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 10 Nov 2021 20:17

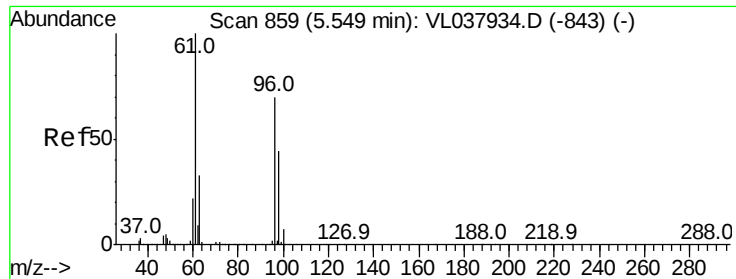
Tot Ion:	57	Resp:	59212
Ion	Ratio	Lower	Upper
57	100		
41	102.6	71.0	106.6
43	90.9	173.0	259.6#
56	62.7	43.6	65.4



#29
Chloroform
Concen: 0.231 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.02 min
Lab File: VL038016.D
Acq: 10 Nov 2021 20:17

Tgt Ion:	83	Resp:	57323
Ion	Ratio	Lower	Upper
83	100		
85	57.7	50.6	76.0





#31

cis-1,2-Dichloroethene

Concen: 7.474 ppbv

RT: 5.53 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 10 Nov 2021 20:17

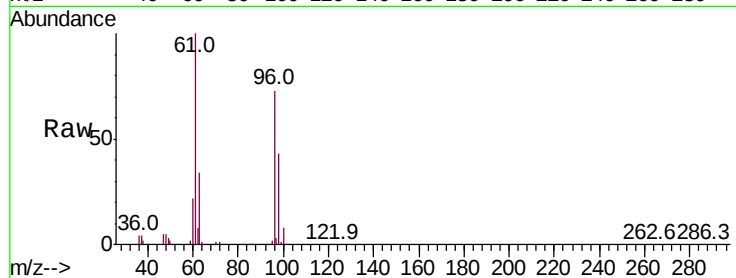
Tot Ion: 61 Resp: 1133367

Ion Ratio Lower Upper

61 100

96 72.6 55.6 83.4

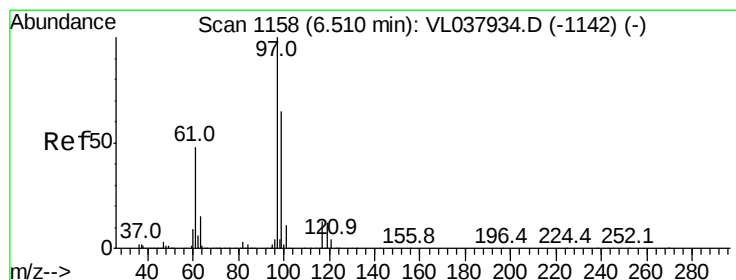
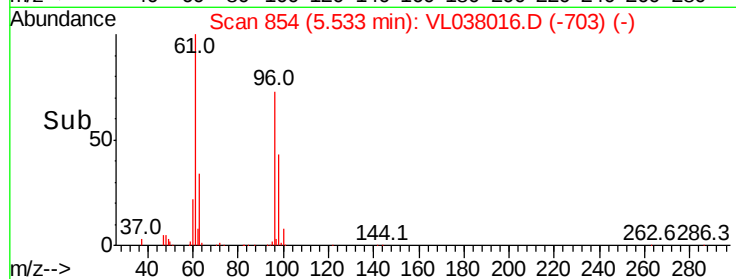
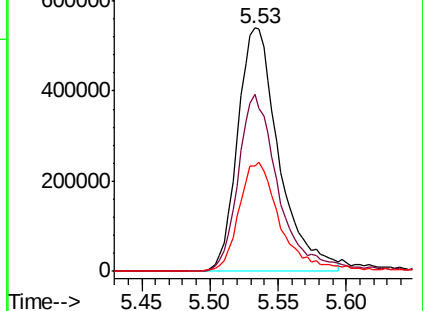
98 43.2 34.9 52.3



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.038 ppbv

RT: 6.49 min Scan# 1153

Delta R.T. -0.02 min

Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

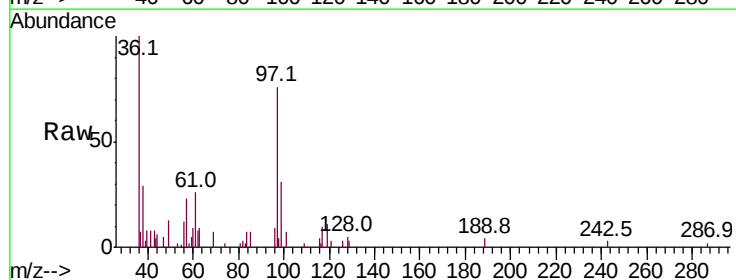
Tgt Ion: 97 Resp: 9319

Ion Ratio Lower Upper

97 100

99 110.5 52.2 78.4#

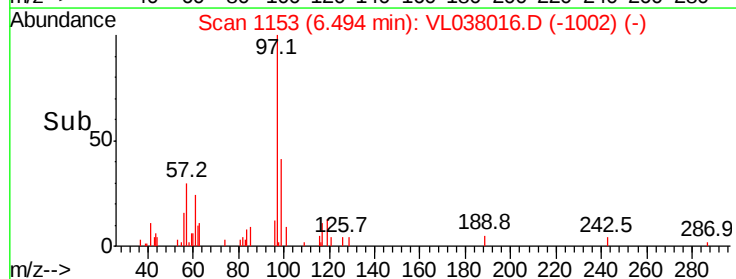
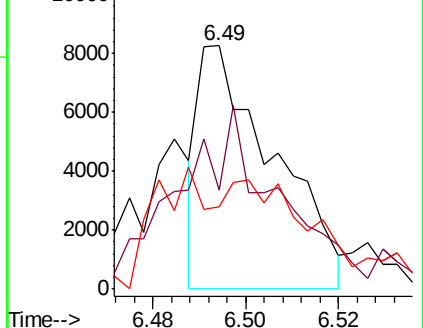
61 0.0 39.8 59.6#

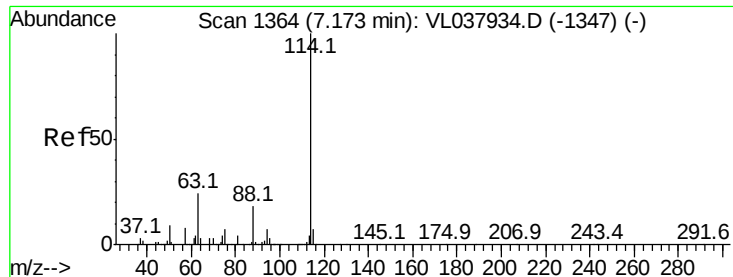


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 10 Nov 2021 20:17

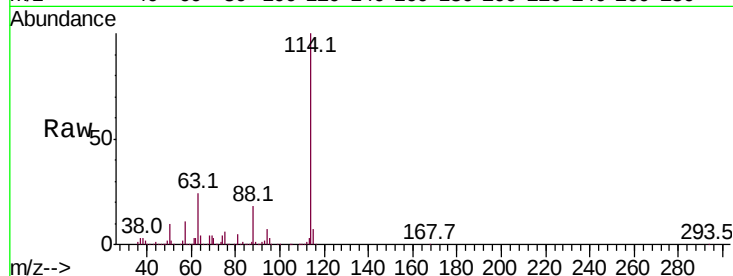
Tot Ion:114 Resp: 4113068

Ion Ratio Lower Upper

114 100

63 23.6 19.4 29.0

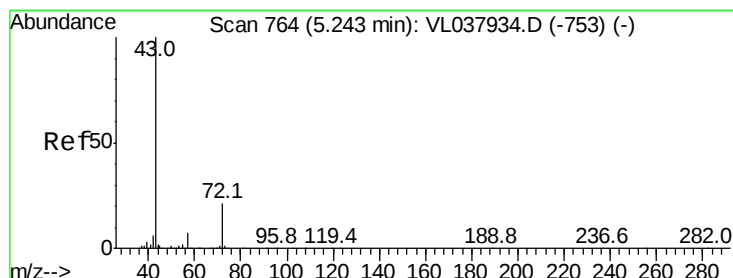
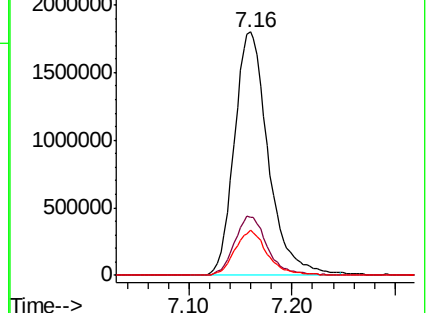
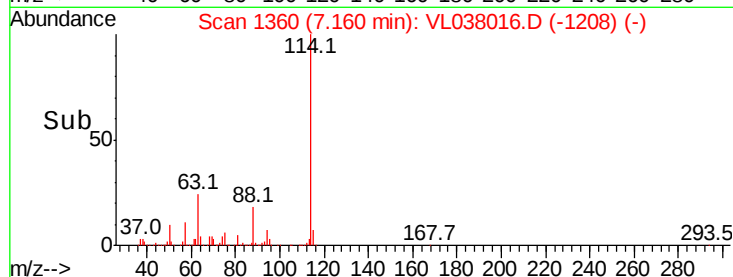
88 17.9 14.2 21.4



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: 0.727 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL038016.D

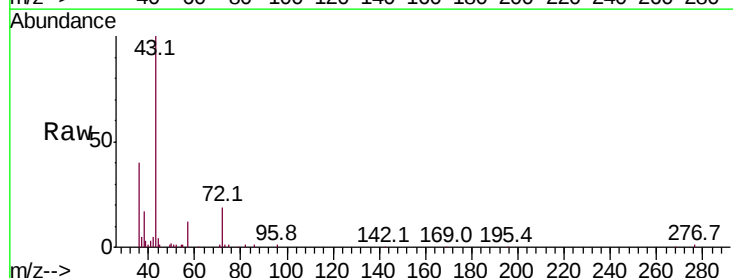
Acq: 10 Nov 2021 20:17

Tgt Ion: 43 Resp: 110831

Ion Ratio Lower Upper

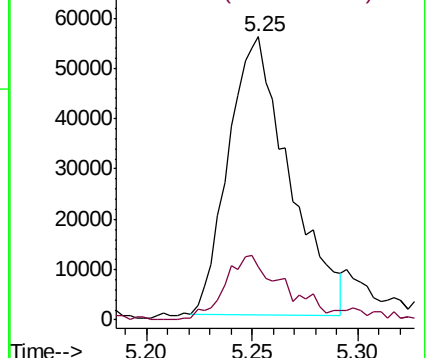
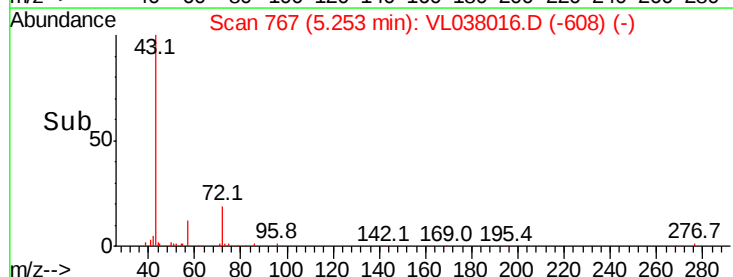
43 100

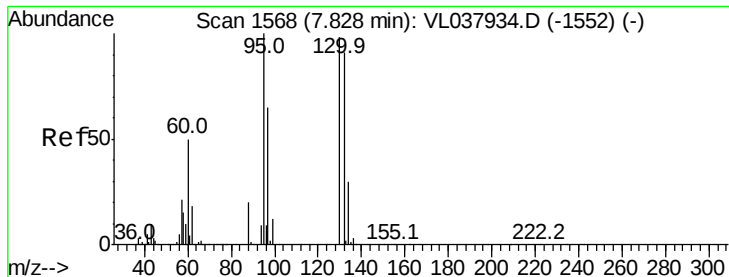
72 25.0 18.3 27.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#38

Trichloroethene

Concen: 112.503 ppbv

RT: 7.82

Delta R.T. MSVOA_L

Lab File:

ClientSampleId:

Acq: 10 Nov 2021 20:17

Tot Ion:130 Resp:15640441

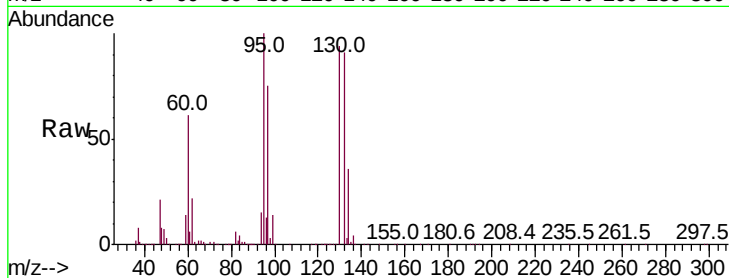
Ion Ratio Lower Upper

130 100

95 105.9 81.8 122.8

132 96.8 74.2 111.2

97 79.0 53.4 80.2

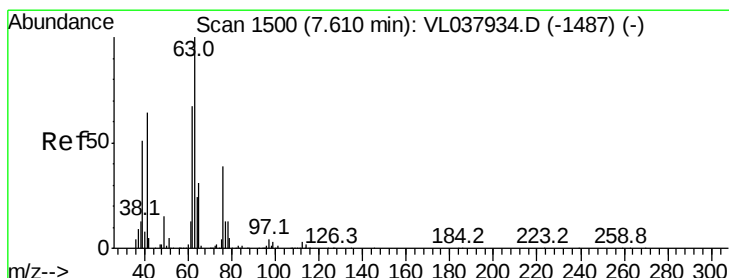
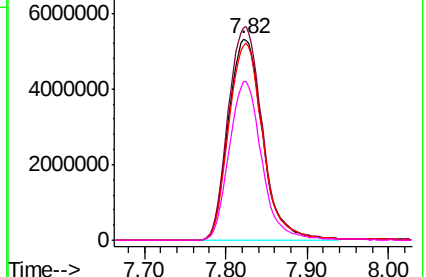
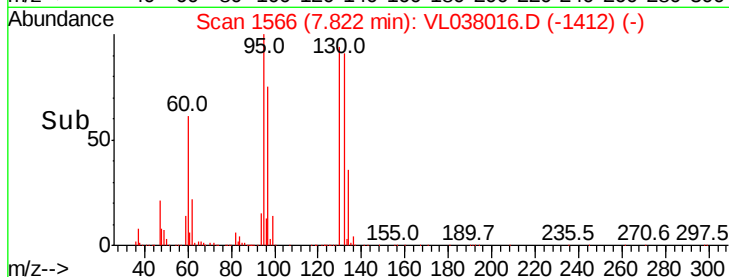


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 0.144 ppbv

RT: 7.81 min Scan# 1561

Delta R.T. 0.20 min

Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

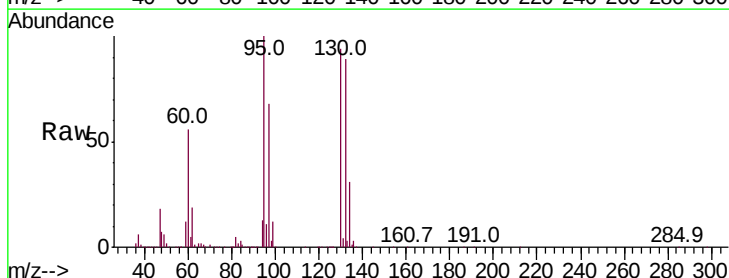
Tgt Ion: 63 Resp: 18126

Ion Ratio Lower Upper

63 100

41 13.8 51.6 77.4#

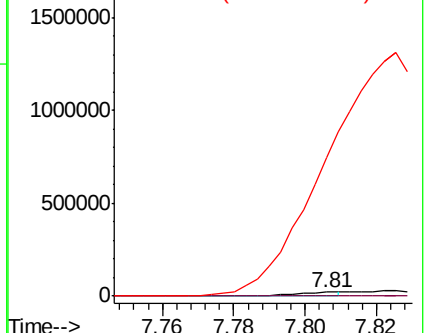
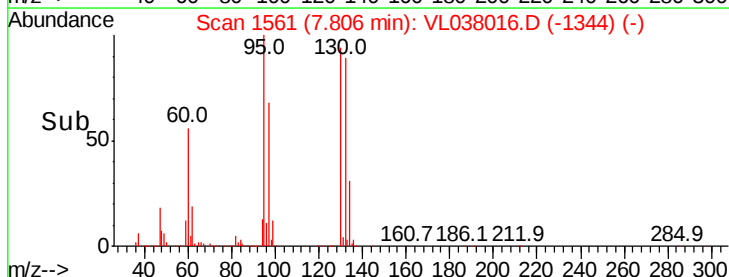
62 3666.9 53.5 80.3#

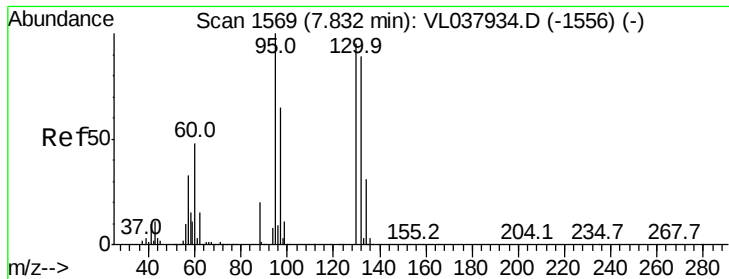


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#40

1,4-Dioxane

Concen: 0.032 ppbv

RT: 7.82 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 10 Nov 2021 20:17

Tot Ion: 88 Resp: 1065

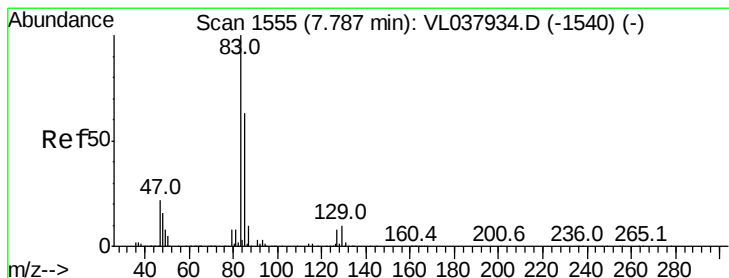
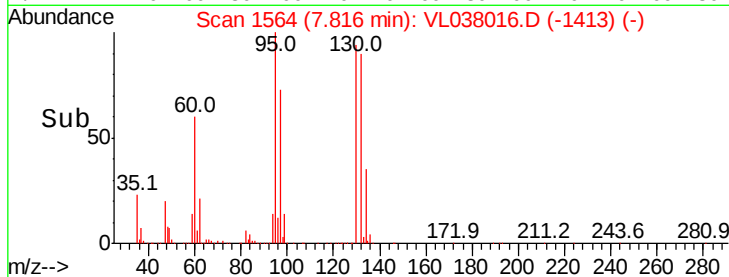
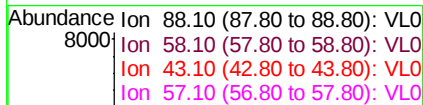
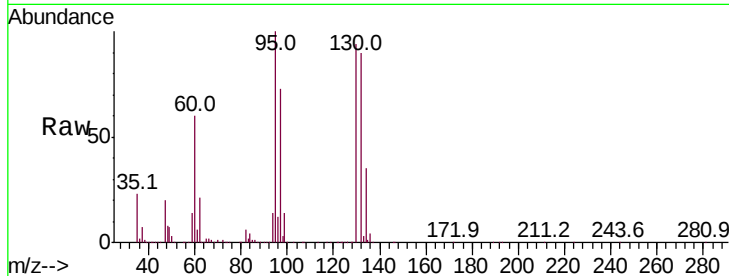
Ion Ratio Lower Upper

88 100

58 0.0 129.1 193.7#

43 0.0 313.2 469.8#

57 272.6 1408.6 2112.8#



#42

Bromodichloromethane

Concen: 0.355 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. 0.04 min

Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

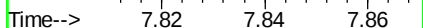
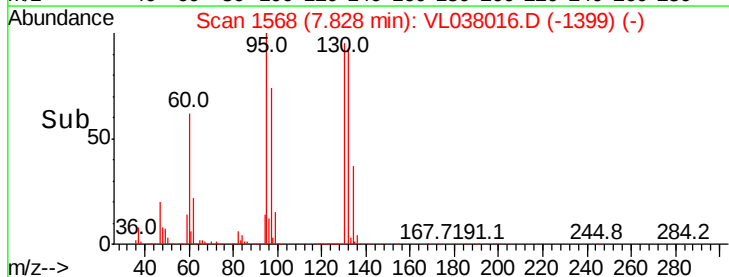
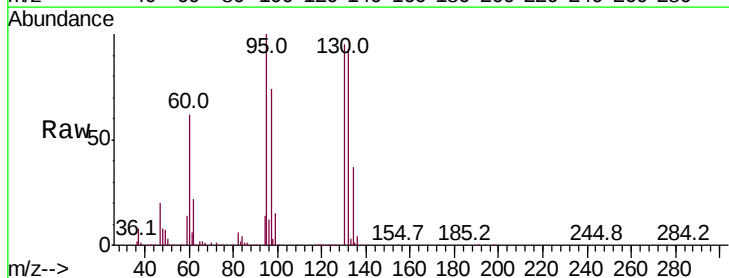
Tgt Ion: 83 Resp: 85555

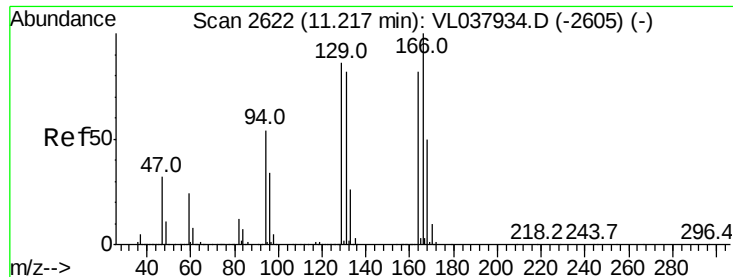
Ion Ratio Lower Upper

83 100

85 57.7 50.1 75.1

127 7.4 6.1 9.1





#52

Tetrachloroethene

Concen: 343.815 ppbv

RT: 11.29

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 20:17

Tot Ion:164 Resp:43686892

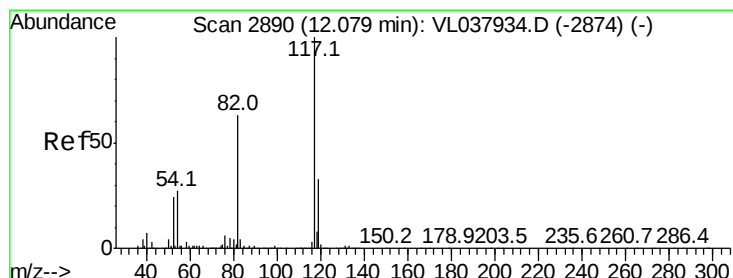
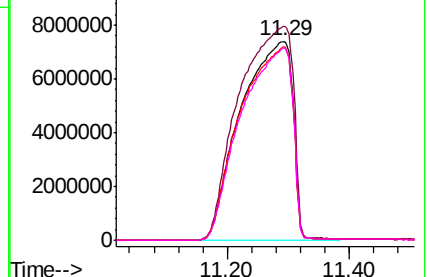
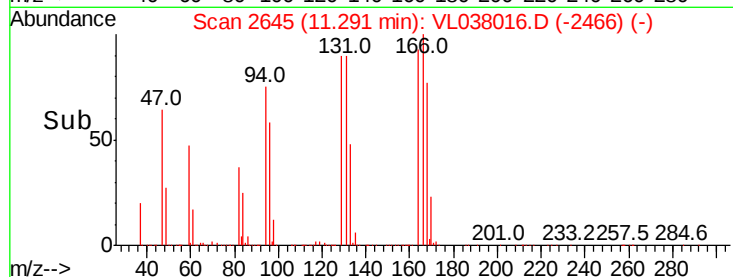
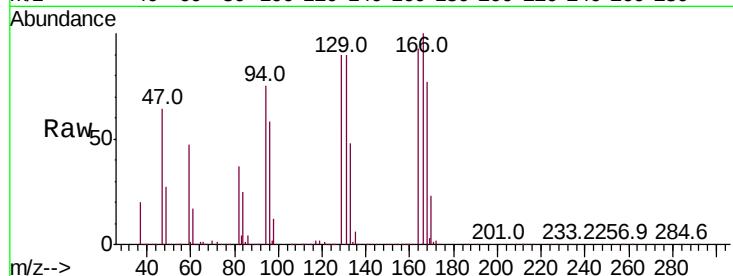
Ion Ratio Lower Upper

164 100

166 107.5 97.6 146.4

129 97.1 84.2 126.2

131 96.7 79.6 119.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL038016.D

Acq: 10 Nov 2021 20:17

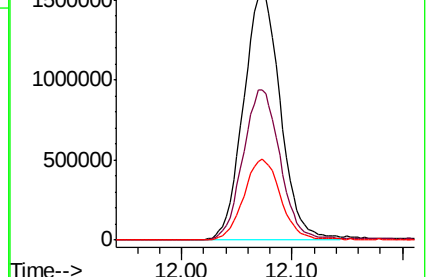
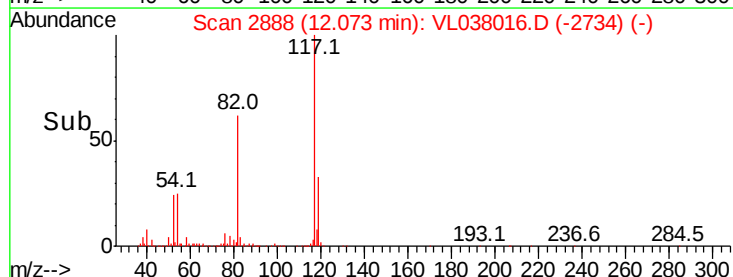
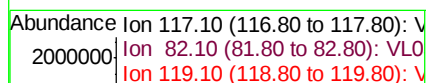
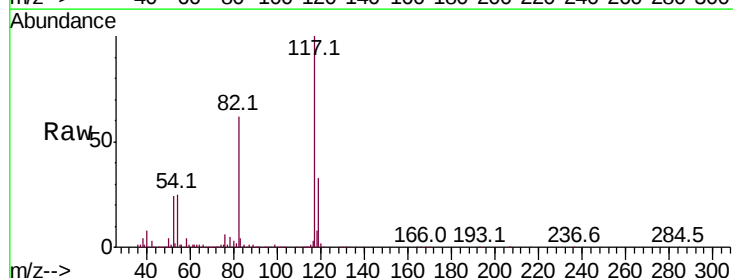
Tgt Ion:117 Resp: 3598930

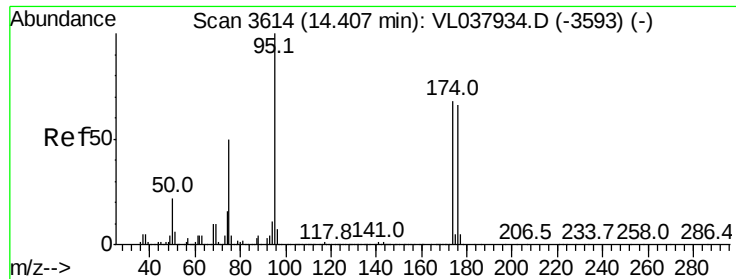
Ion Ratio Lower Upper

117 100

82 62.1 51.0 76.6

119 33.1 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.929 ppbv

RT: 14.39

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 10 Nov 2021 20:17

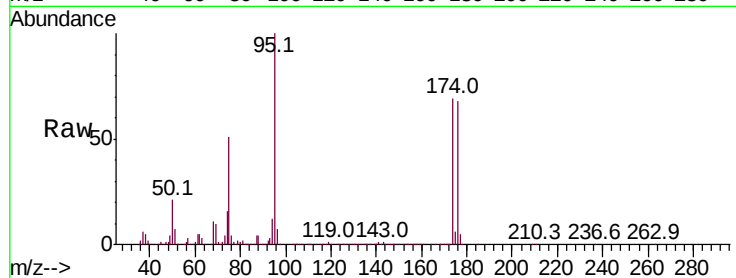
Tot Ion: 95 Resp: 2597524

Ion Ratio Lower Upper

95 100

174 75.1 58.3 87.5

175 5.7 4.6 6.8



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

