

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110221\
 Data File : VL037970.D
 Acq On : 2 Nov 2021 16:31
 Operator : SY/AP
 Sample : M4447-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Quant Time: Nov 03 03:49:31 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	5.66	49	1312928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3700789	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3129101	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2189813	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

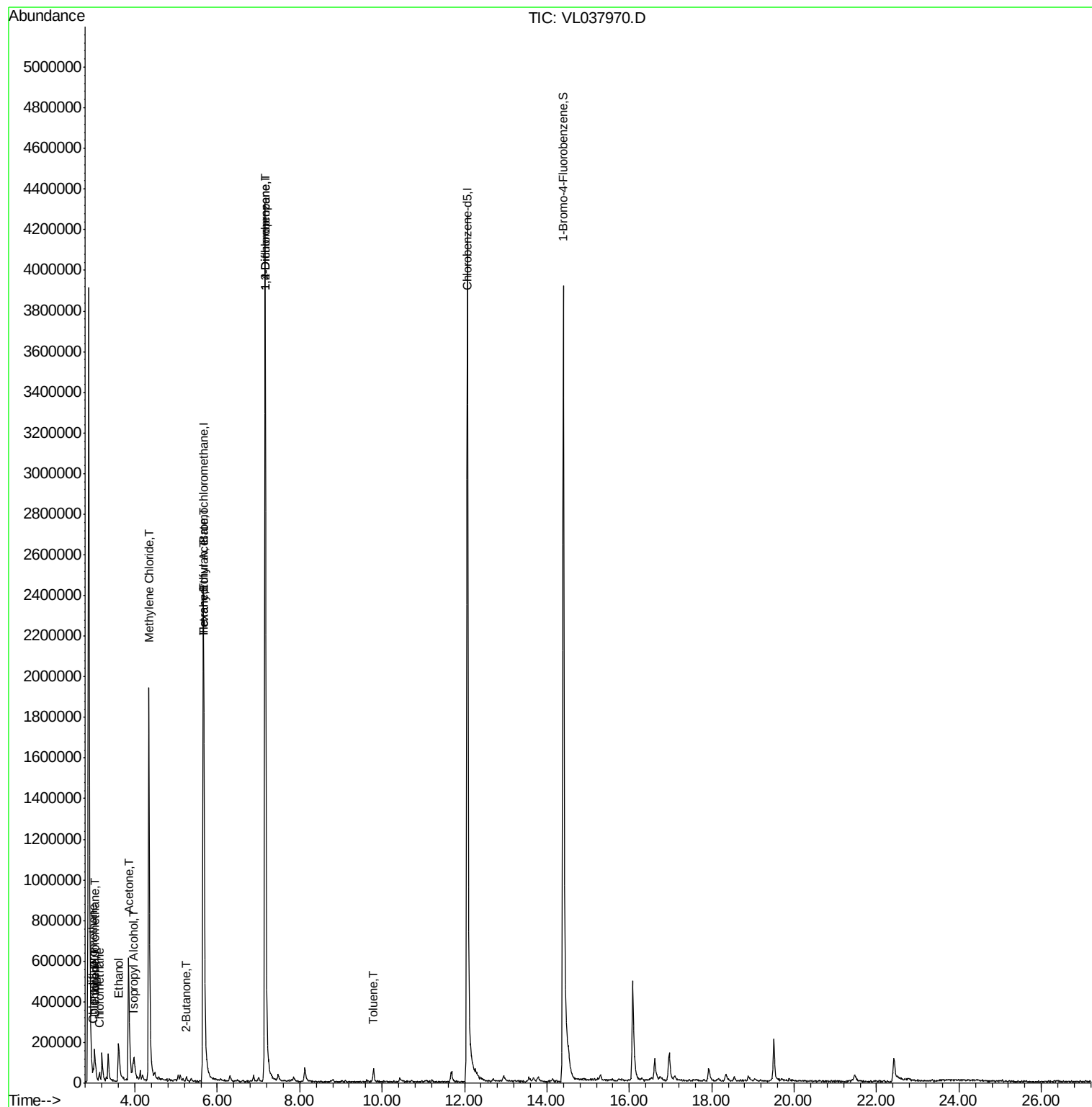
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	41691	0.225	ppbv	91
3) Chlorodifluoromethane	2.99	51	61828	0.253	ppbv	100
4) Chloromethane	3.14	50	38760	0.417	ppbv	96
9) Propene	3.02	41	30976	0.353	ppbv	89
13) Ethanol	3.61	45	78162	8.841	ppbv #	1
15) Acetone	3.84	43	782155	7.209	ppbv	98
19) Isopropyl Alcohol	3.98	45	119424	1.721	ppbv #	75
20) Methylene Chloride	4.34	84	829359	13.925	ppbv	97
25) Ethyl Acetate	5.68	43	235558	0.731	ppbv #	80
26) Hexane	5.68	57	305056	1.998	ppbv #	47
34) 2-Butanone	5.25	43	27114	0.198	ppbv #	84
39) 1,2-Dichloropropane	7.16	63	852727	7.520	ppbv #	28
41) Tetrahydrofuran	5.68	42	127701	1.903	ppbv #	48
53) Toluene	9.78	91	15496	0.048	ppbv #	20

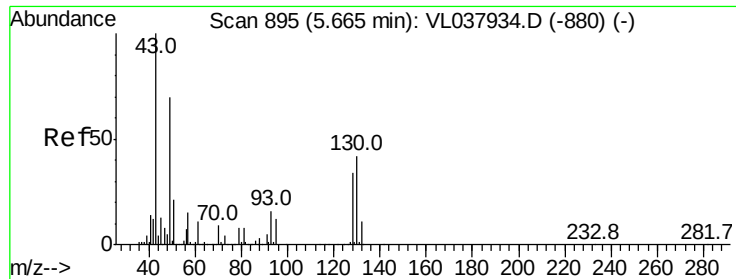
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 02 05:54:07 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA-1

Acq: 2 Nov 2021 16:31

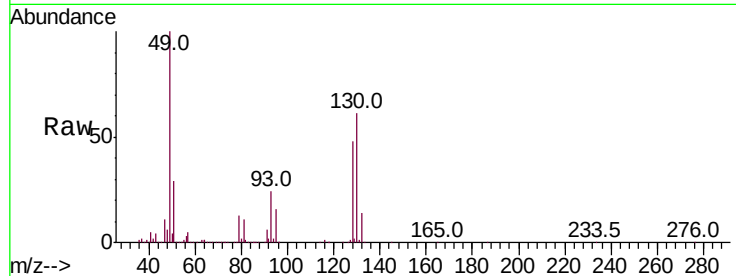
Tot Ion: 49 Resp: 1312928

Ion Ratio Lower Upper

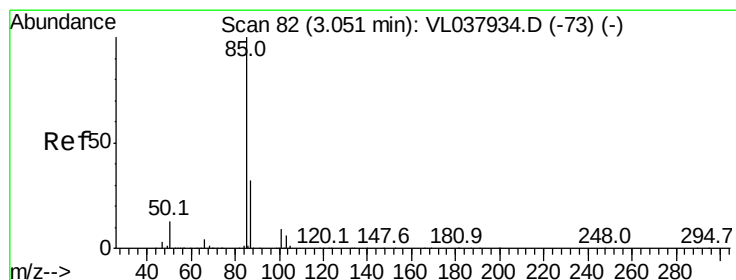
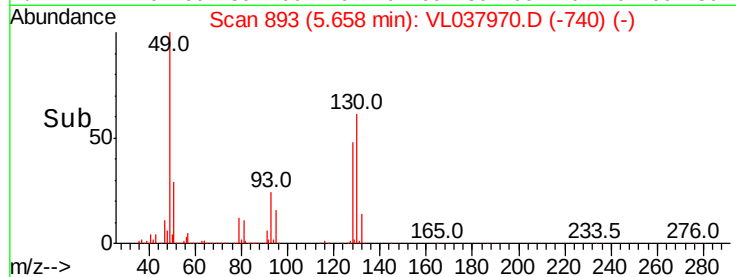
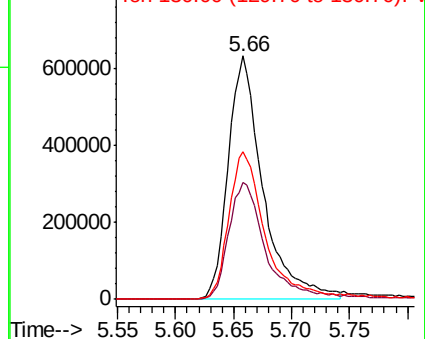
49 100

128 52.6 27.0 81.0

130 66.8 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



#2

Dichlorodifluoromethane

Concen: 0.225 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037970.D

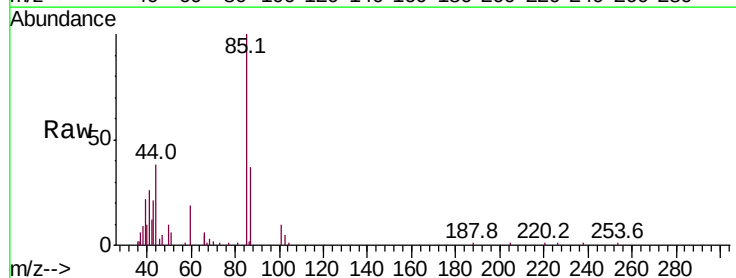
Acq: 2 Nov 2021 16:31

Tgt Ion: 85 Resp: 41691

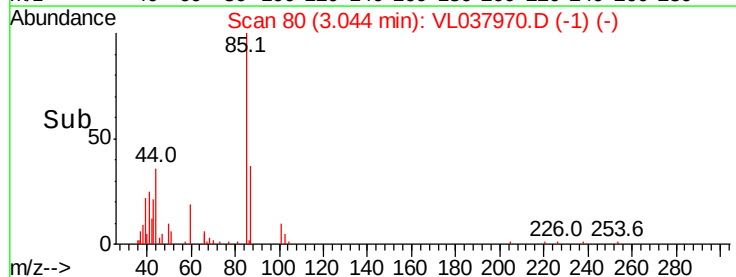
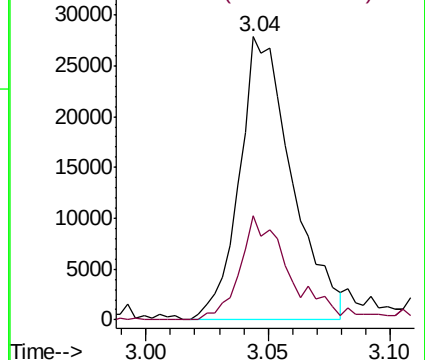
Ion Ratio Lower Upper

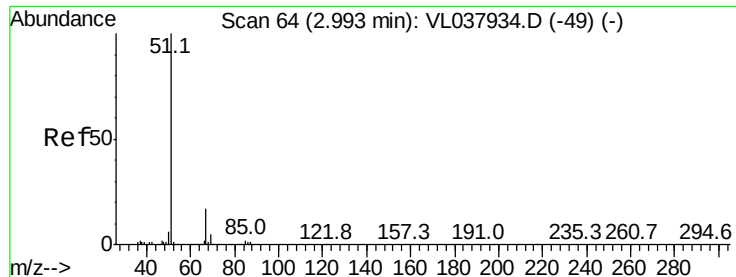
85 100

87 36.6 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.253 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

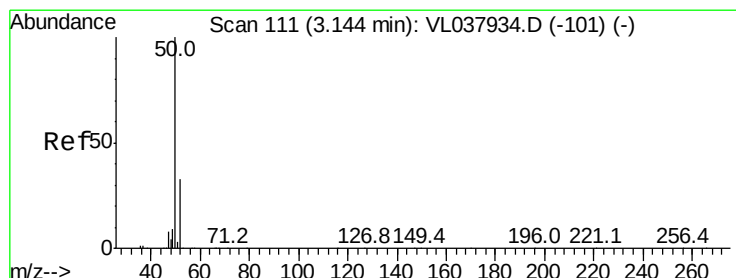
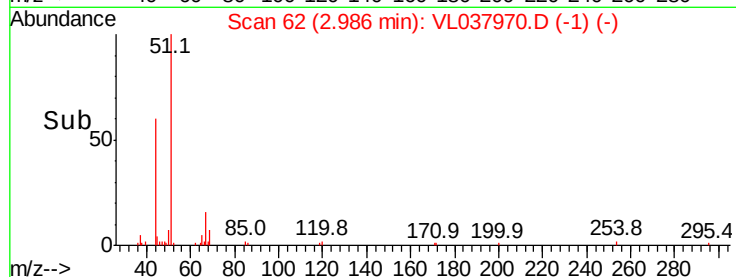
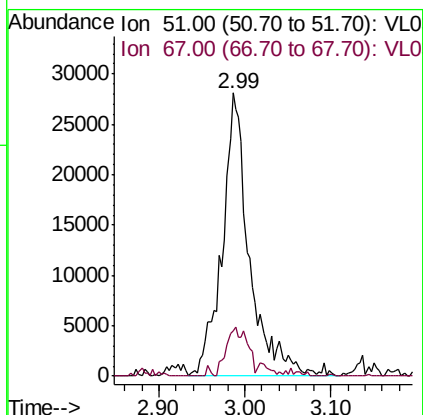
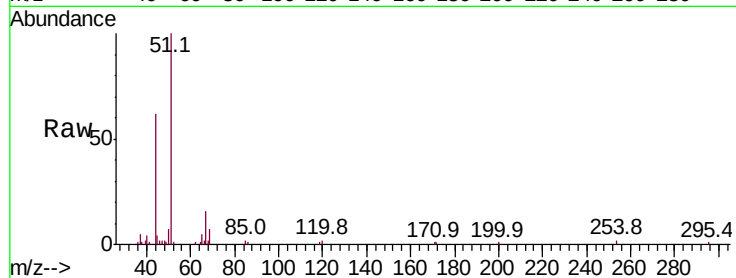
Acq: 2 Nov 2021 16:31

Tot Ion: 51 Resp: 61828

Ion Ratio Lower Upper

51 100

67 16.7 13.4 20.0



#4

Chloromethane

Concen: 0.417 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL037970.D

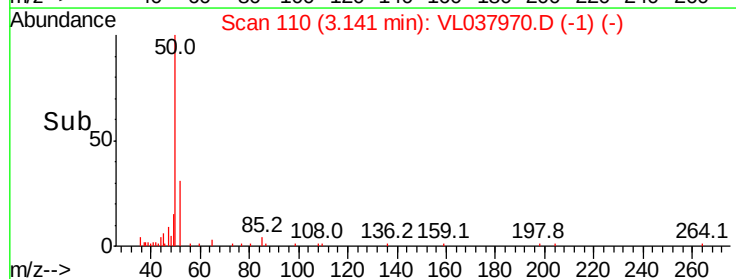
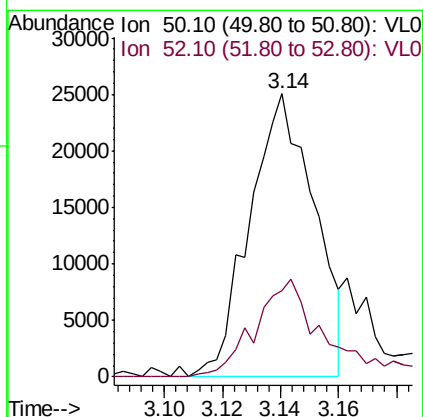
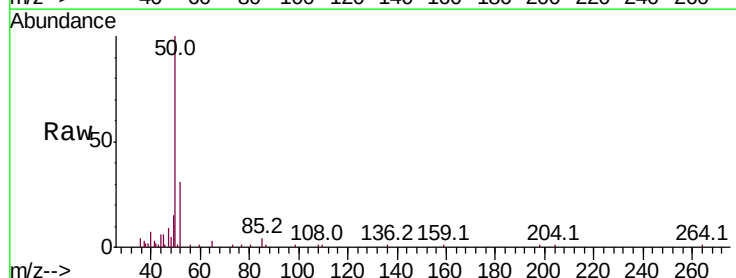
Acq: 2 Nov 2021 16:31

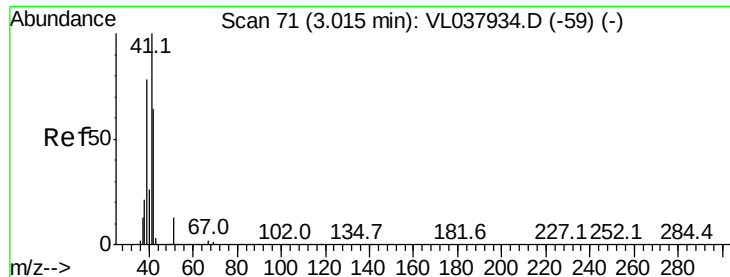
Tgt Ion: 50 Resp: 38760

Ion Ratio Lower Upper

50 100

52 30.5 26.3 39.5





#9

Propene

Concen: 0.353 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

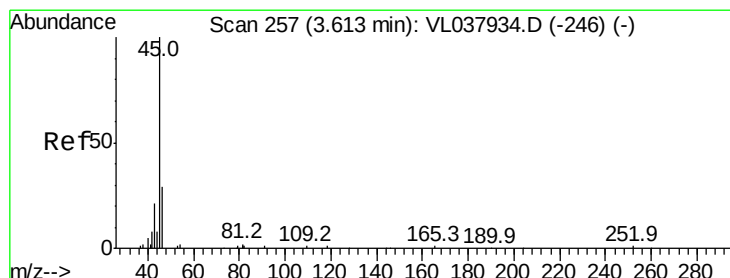
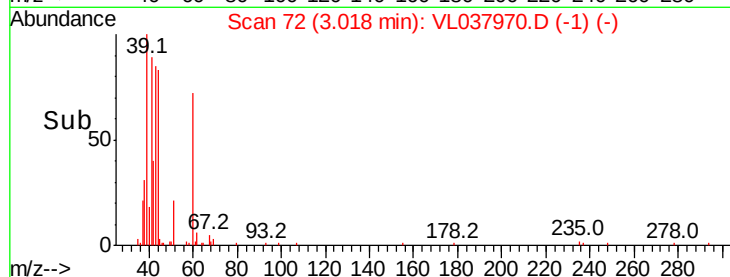
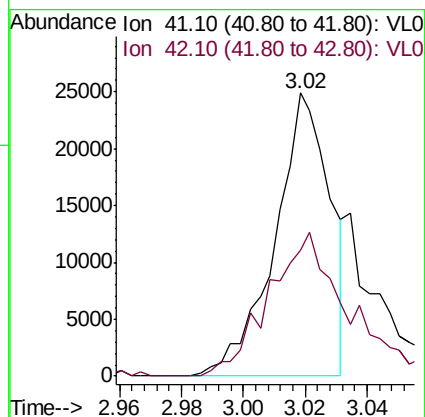
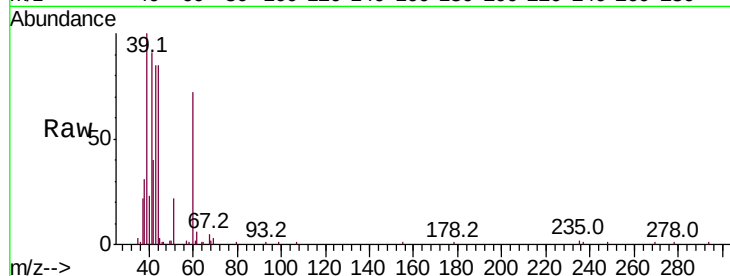
Acq: 2 Nov 2021 16:31

Tot Ion: 41 Resp: 30976

Ion Ratio Lower Upper

41 100

42 81.0 57.6 86.4



#13

Ethanol

Concen: 8.841 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL037970.D

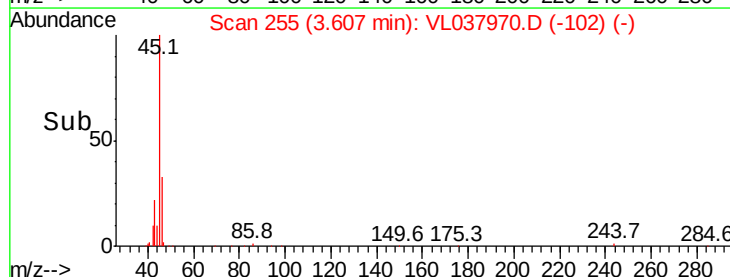
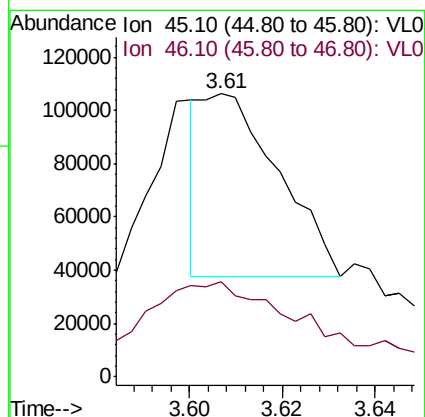
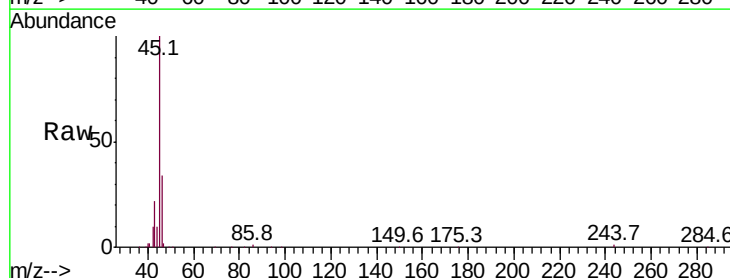
Acq: 2 Nov 2021 16:31

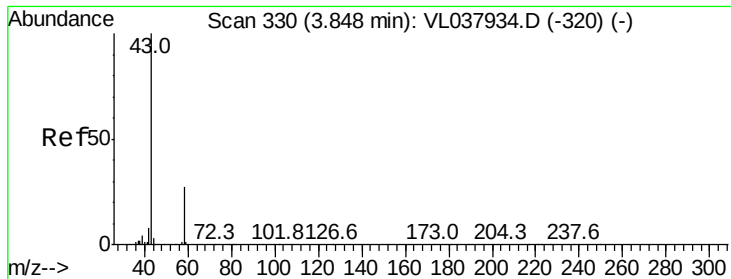
Tgt Ion: 45 Resp: 78162

Ion Ratio Lower Upper

45 100

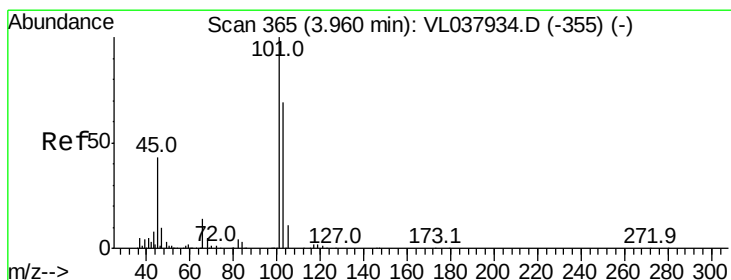
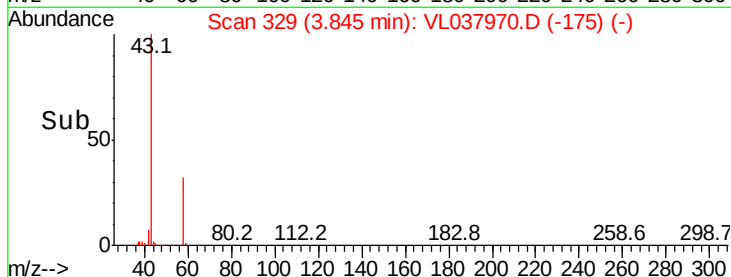
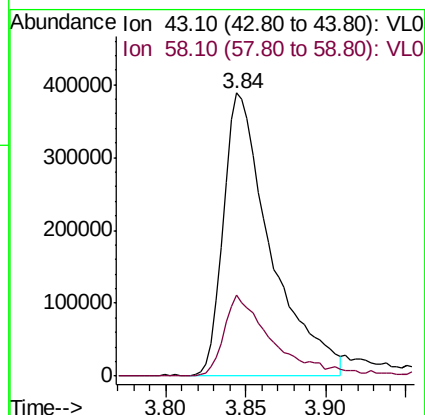
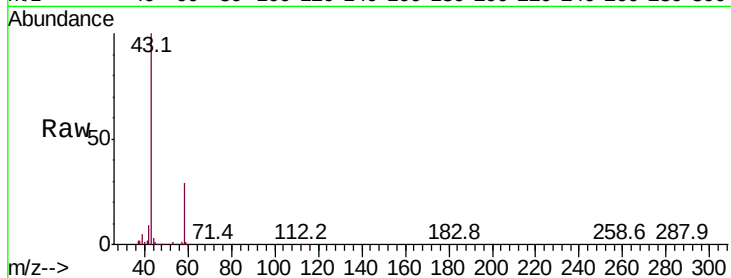
46 148.8 17.4 69.8#





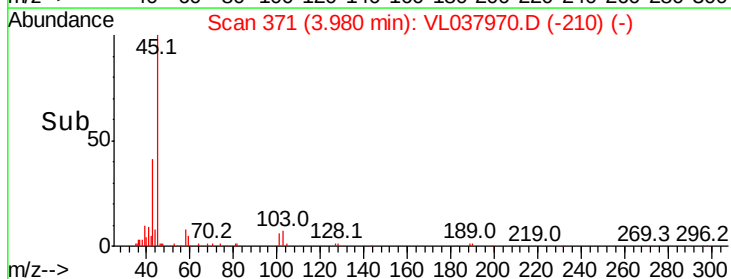
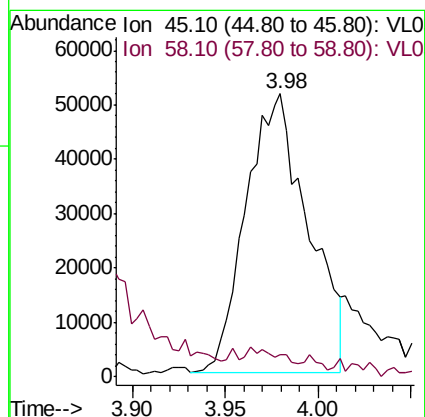
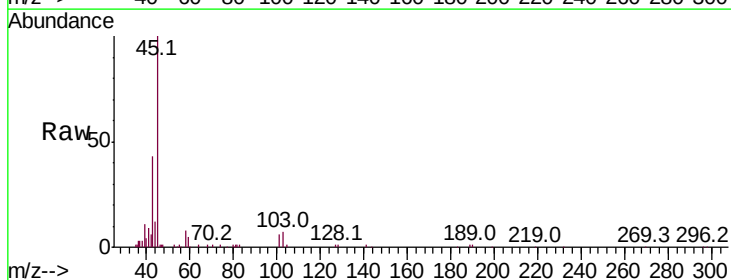
#15
Acetone
Concen: 7.209 ppbv
RT: 3.84
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 2 Nov 2021 16:31

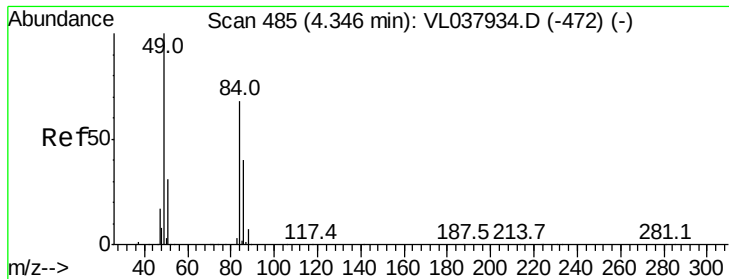
Tot Ion: 43 Resp: 782155
Ion Ratio Lower Upper
43 100
58 30.1 23.3 34.9



#19
Isopropyl Alcohol
Concen: 1.721 ppbv
RT: 3.98 min Scan# 371
Delta R.T. 0.02 min
Lab File: VL037970.D
Acq: 2 Nov 2021 16:31

Tgt Ion: 45 Resp: 119424
Ion Ratio Lower Upper
45 100
58 13.2 4.0 6.0#





#20

Methylene Chloride

Concen: 13.925 ppbv

RT: 4.34

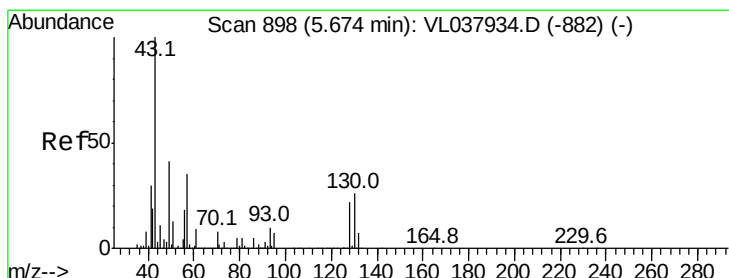
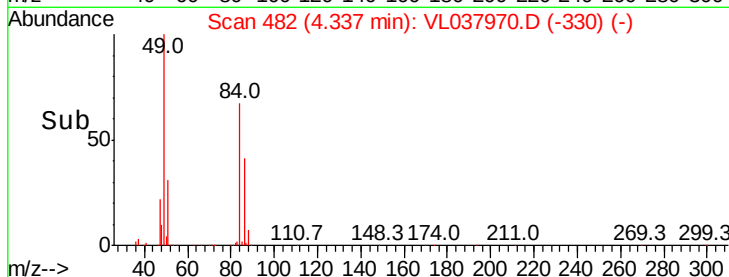
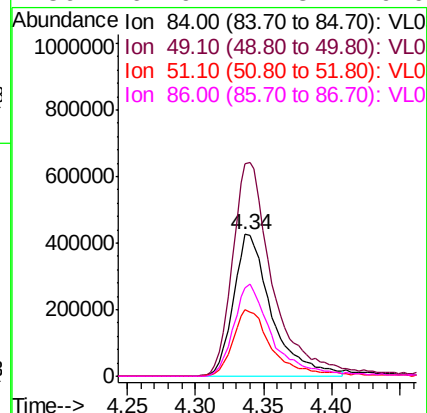
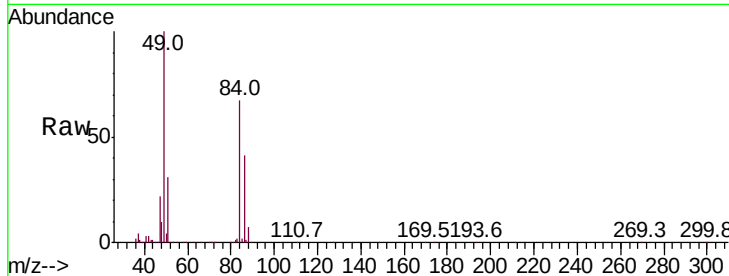
Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA-1

Acq: 2 Nov 2021 16:31

Tot Ion:	84	Resp:	829359
Ion	Ratio	Lower	Upper
84	100		
49	150.0	117.5	176.3
51	47.2	35.9	53.9
86	61.9	47.3	70.9



#25

Ethyl Acetate

Concen: 0.731 ppbv

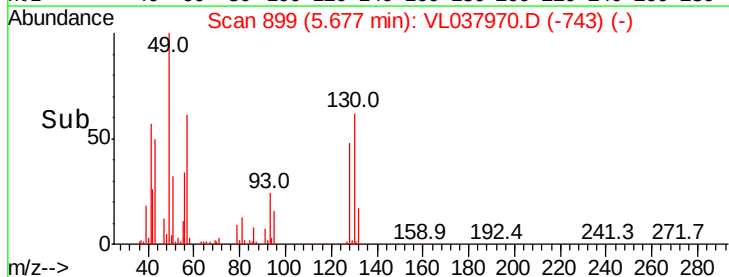
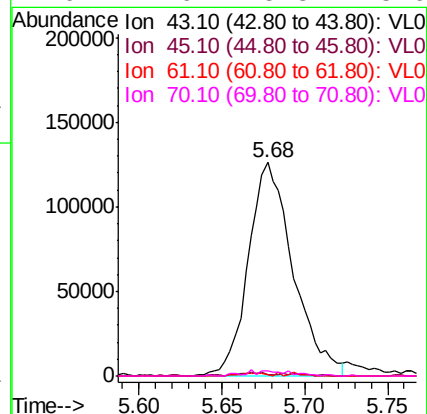
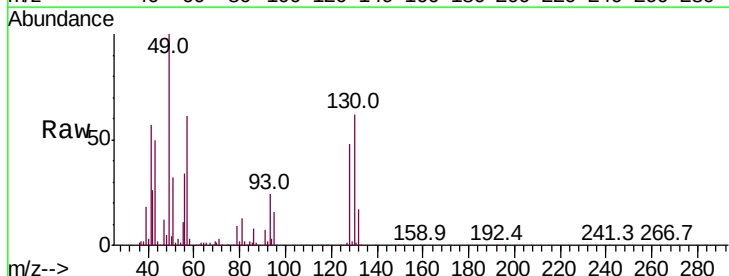
RT: 5.68 min Scan# 899

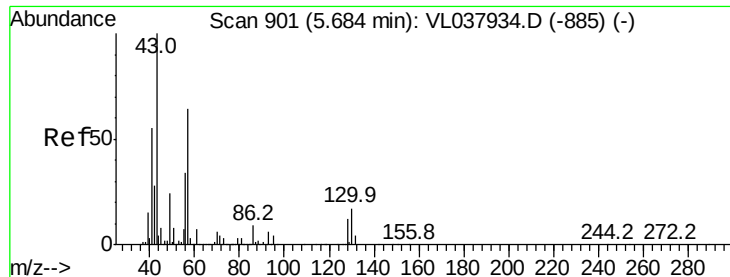
Delta R.T. 0.00 min

Lab File: VL037970.D

Acq: 2 Nov 2021 16:31

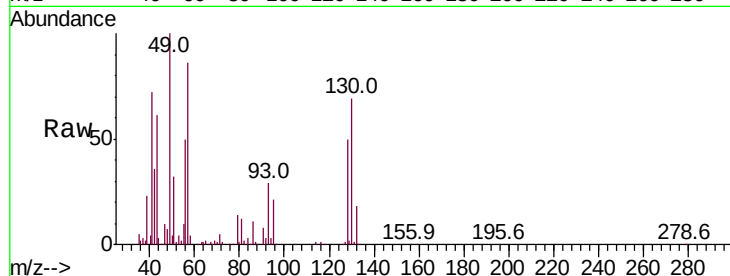
Tgt Ion:	43	Resp:	235558
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.1	12.1#
61	1.4	8.1	12.1#
70	2.6	5.8	8.6#



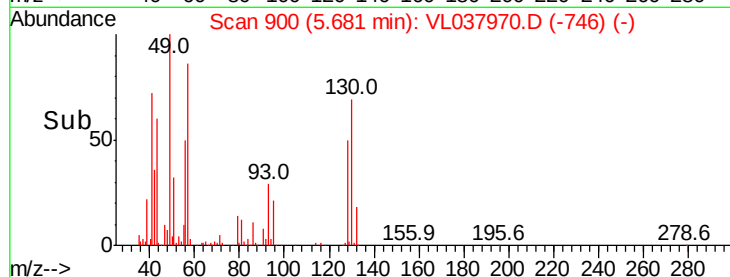
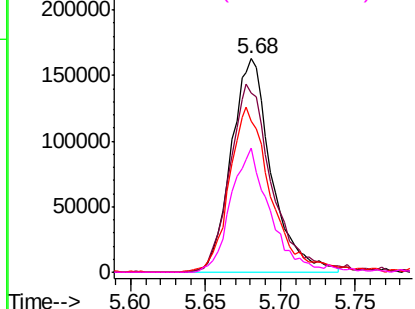


#26
Hexane
Concen: 1.998 ppbv
RT: 5.68
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 2 Nov 2021 16:31

Tot Ion:	57	Resp:	305056
Ion	Ratio	Lower	Upper
57	100		
41	94.3	71.0	106.6
43	81.2	173.0	259.6#
56	58.8	43.6	65.4

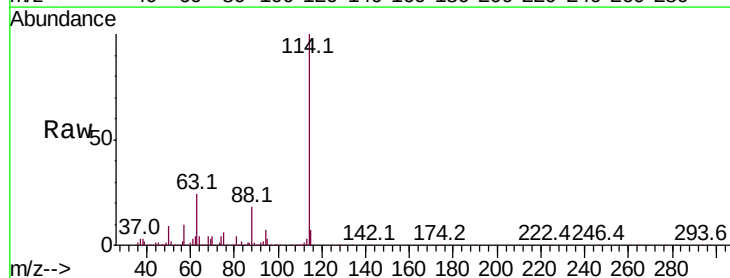
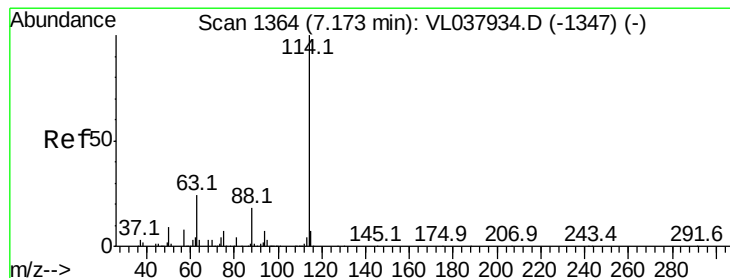


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

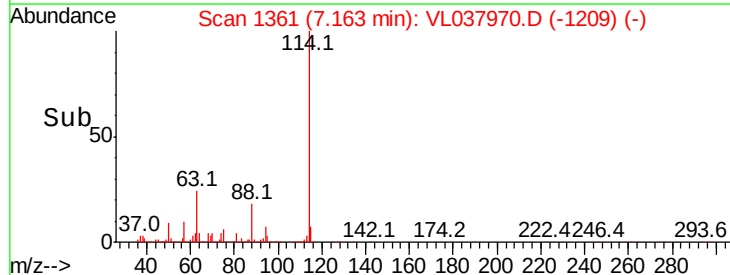
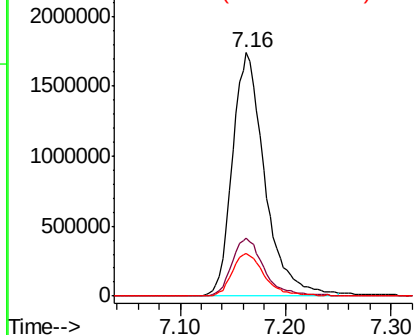


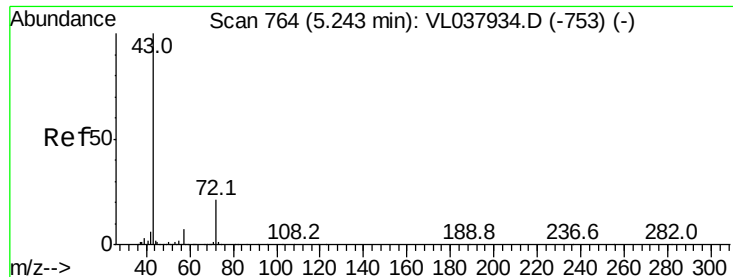
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.01 min
Lab File: VL037970.D
Acq: 2 Nov 2021 16:31

Tgt Ion:	114	Resp:	3700789
Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.4	29.0
88	17.9	14.2	21.4



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





#34

2-Butanone

Concen: 0.198 ppbv

RT: 5.25

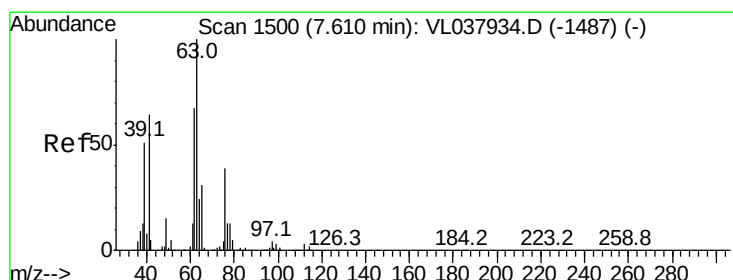
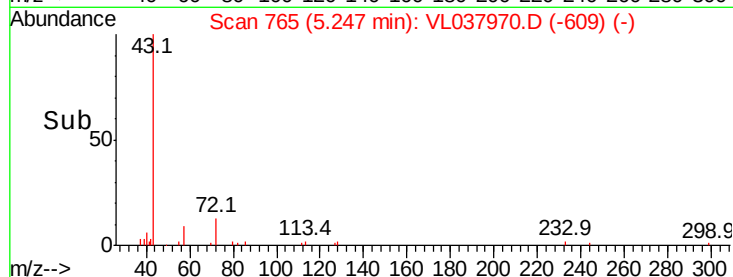
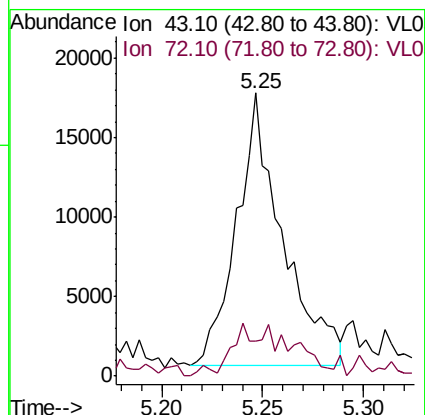
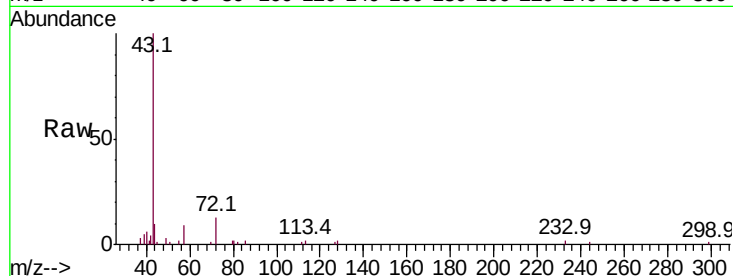
Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 2 Nov 2021 16:31

Tot Ion: 43 Resp: 27114

Ion	Ratio	Lower	Upper
43	100		
72	30.4	18.3	27.5#



#39

1,2-Dichloropropane

Concen: 7.520 ppbv

RT: 7.16 min Scan# 1361

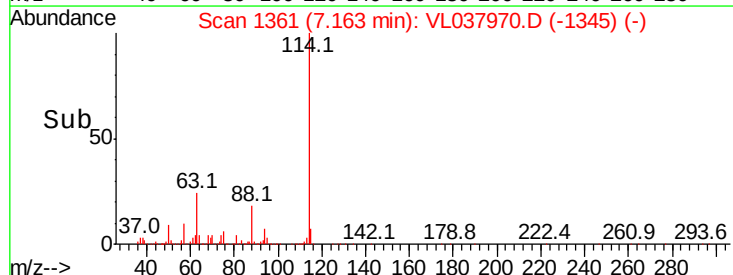
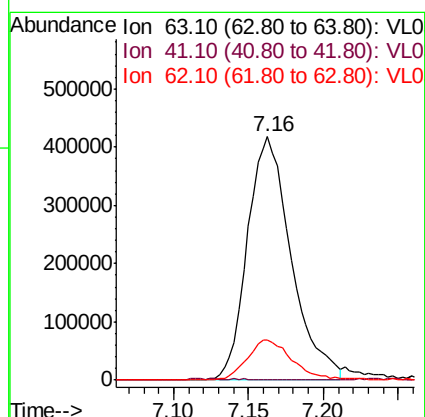
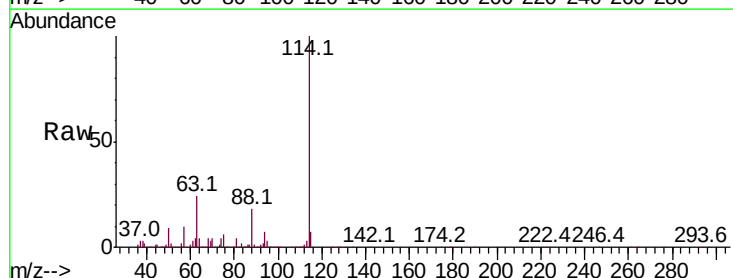
Delta R.T. -0.45 min

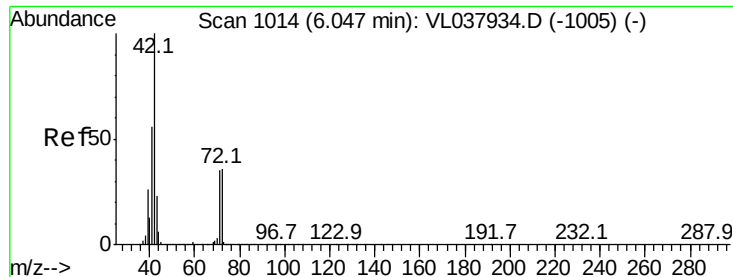
Lab File: VL037970.D

Acq: 2 Nov 2021 16:31

Tgt Ion: 63 Resp: 852727

Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	16.5	53.5	80.3#





#41

Tetrahydrofuran

Concen: 1.903 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Nov 2021 16:31

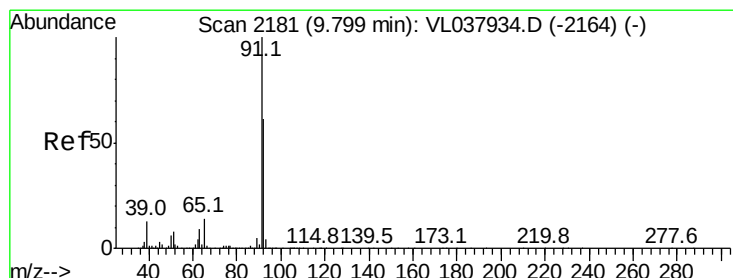
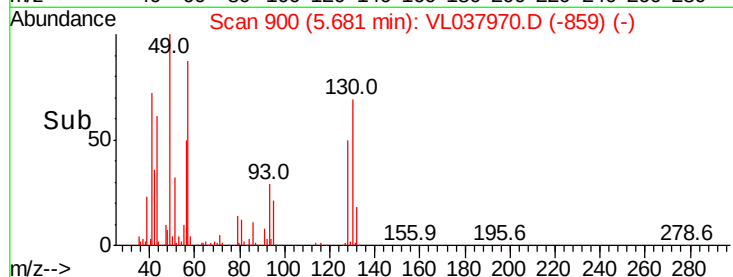
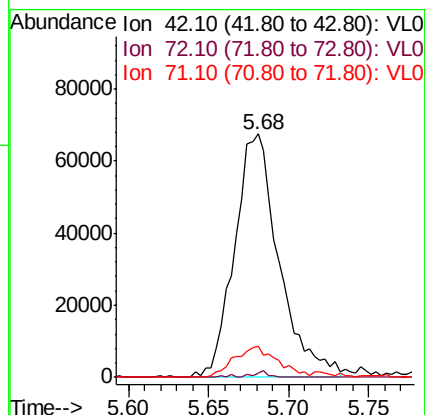
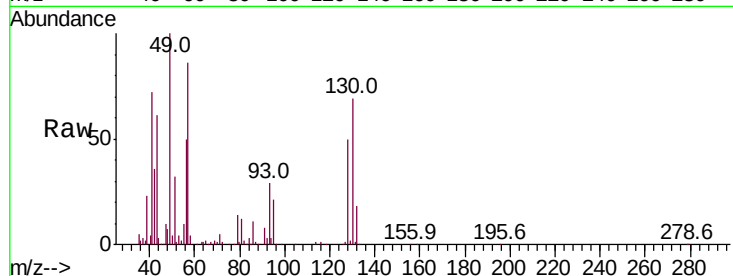
Tot Ion: 42 Resp: 127701

Ion Ratio Lower Upper

42 100

72 1.0 31.5 47.3#

71 13.8 30.5 45.7#



#53

Toluene

Concen: 0.048 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL037970.D

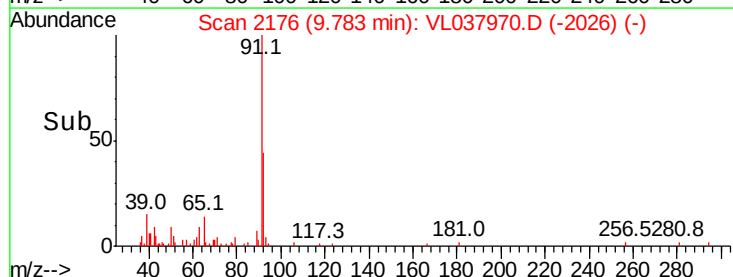
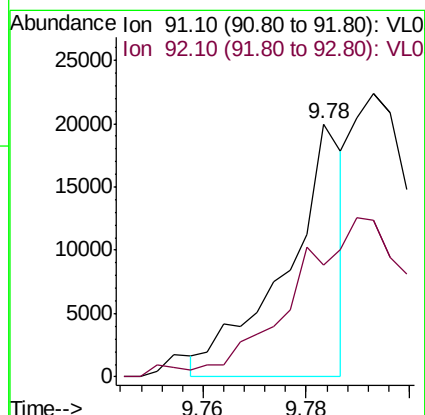
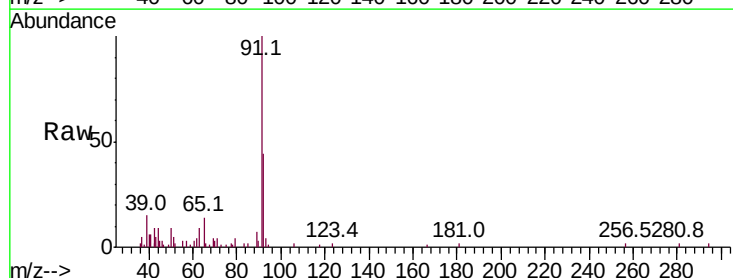
Acq: 2 Nov 2021 16:31

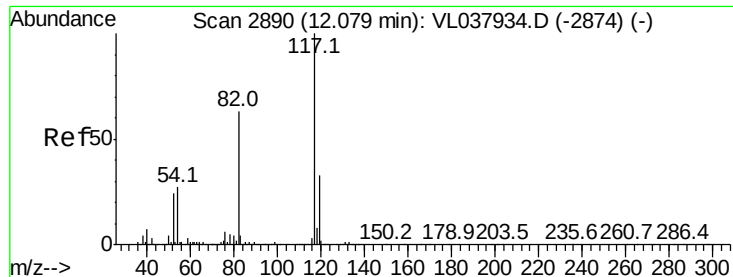
Tgt Ion: 91 Resp: 15496

Ion Ratio Lower Upper

91 100

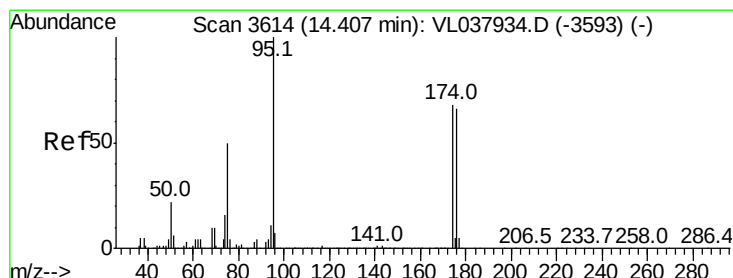
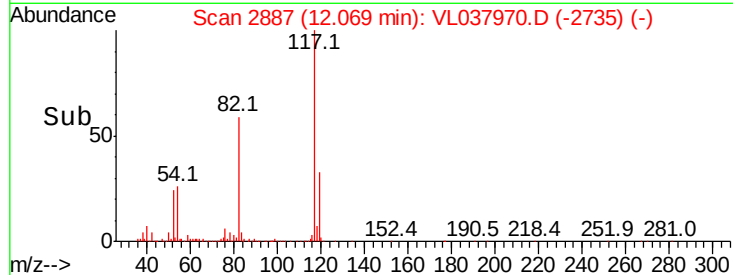
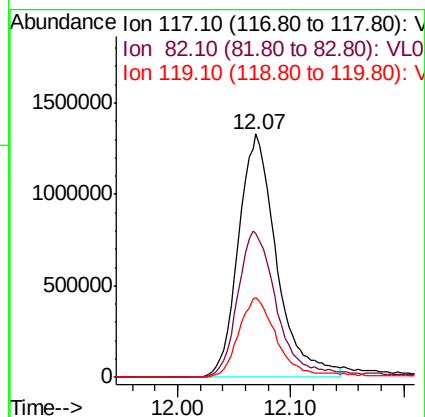
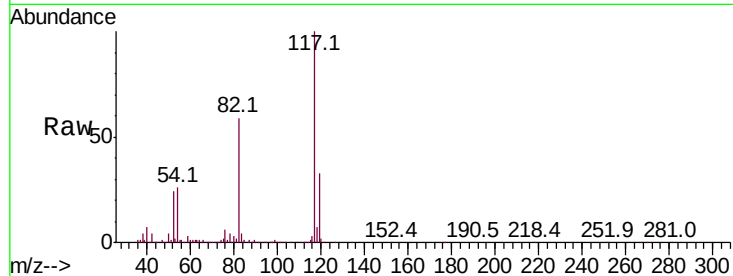
92 0.0 48.2 72.4#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 2 Nov 2021 16:31

Tot Ion: 117 Resp: 3129101
Ion Ratio Lower Upper
117 100
82 64.6 51.0 76.6
119 35.2 26.9 40.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.628 ppbv
RT: 14.40 min Scan# 3611
Delta R.T.: -0.01 min
Lab File: VL037970.D
Acq: 2 Nov 2021 16:31

Tgt Ion: 95 Resp: 2189813
Ion Ratio Lower Upper
95 100
174 78.0 58.3 87.5
175 5.6 4.6 6.8

