

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL110921\
 Data File : VL037991.D
 Acq On : 9 Nov 2021 22:45
 Operator : SY/AP
 Sample : M4555-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 10 04:49:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 02 05:54:07 2021
 QLast Update : Tue Nov 02 05:54:07 2021
 Response via : Initial Calibration

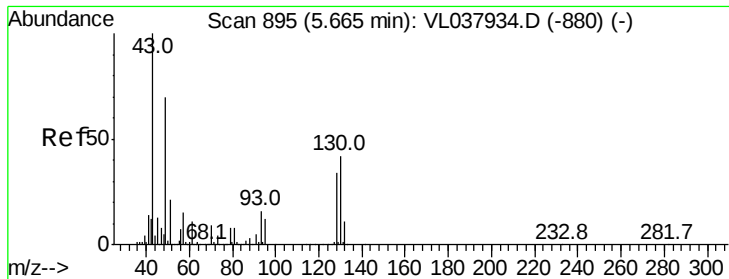
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1404465	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	4158836	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3446019	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2318003	9.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	11329	0.057	ppbv	95
3) Chlorodifluoromethane	2.97	51	22667	0.087	ppbv #	72
4) Chloromethane	3.14	50	8102	0.082	ppbv	92
9) Propene	3.36	41	6395	0.068	ppbv	97
13) Ethanol	3.61	45	358727	37.933	ppbv	96
15) Acetone	3.86	43	200561	1.728	ppbv	96
17) tert-Butyl alcohol	4.31	59	21698	0.180	ppbv #	74
19) Isopropyl Alcohol	3.97	45	180470	2.432	ppbv #	95
20) Methylene Chloride	4.35	84	73141	1.148	ppbv #	92
23) Vinyl Acetate	5.07	43	8010	0.046	ppbv #	79
25) Ethyl Acetate	5.69	43	39993	0.116	ppbv #	90
26) Hexane	5.69	57	36746	0.225	ppbv #	47
39) 1,2-Dichloropropane	7.17	63	965156	7.574	ppbv #	27
65) tert-Butylbenzene	16.97	119	50302	0.114	ppbv #	11
66) Benzyl Chloride	16.98	91	864	0.037	ppbv #	66

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 9 Nov 2021 22:45

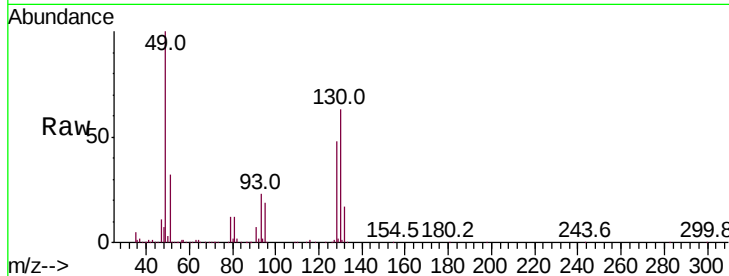
Tot Ion: 49 Resp: 1404465

Ion Ratio Lower Upper

49 100

128 54.5 27.0 81.0

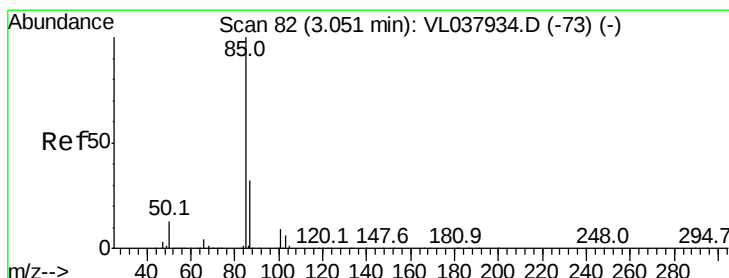
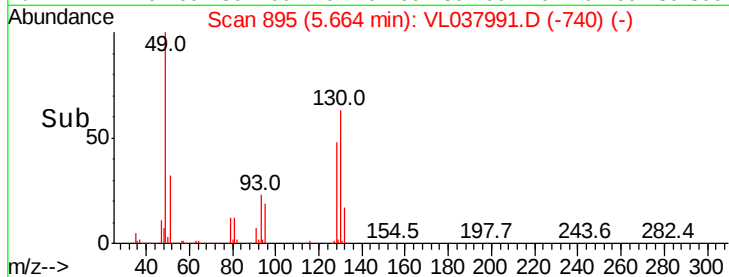
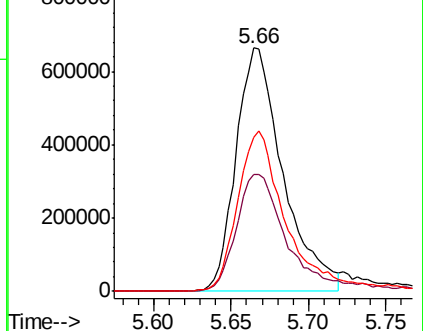
130 70.4 33.4 100.2



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: 0.057 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL037991.D

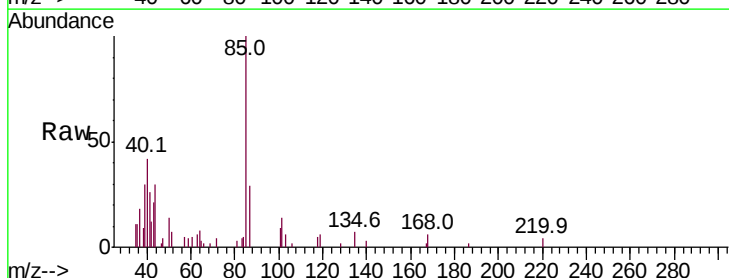
Acq: 9 Nov 2021 22:45

Tgt Ion: 85 Resp: 11329

Ion Ratio Lower Upper

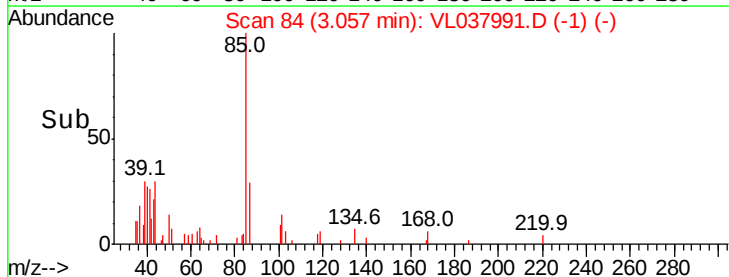
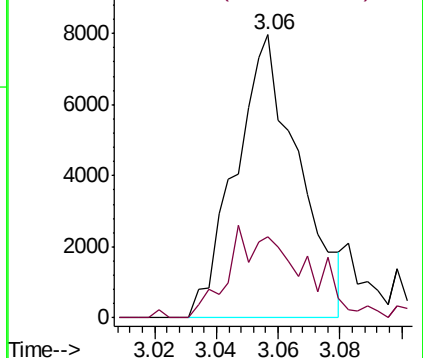
85 100

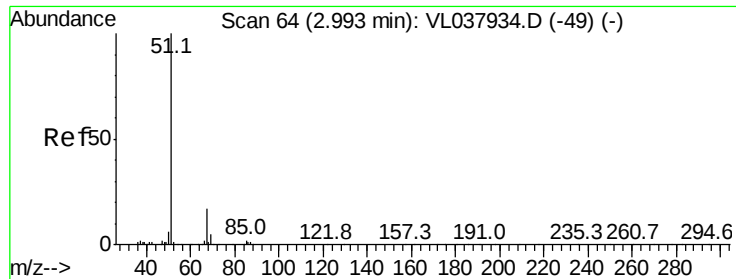
87 28.9 25.3 37.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.087 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

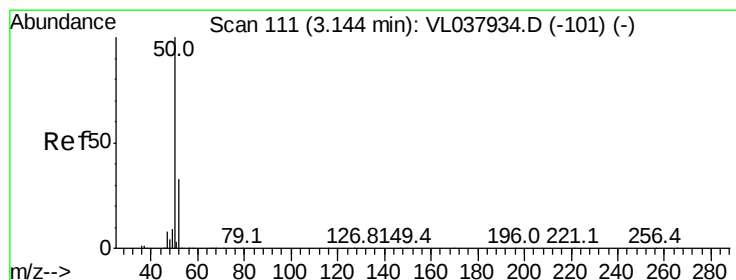
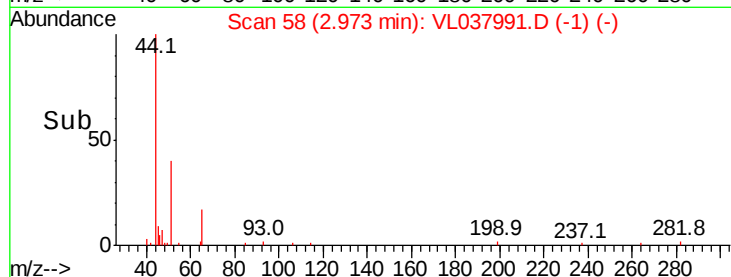
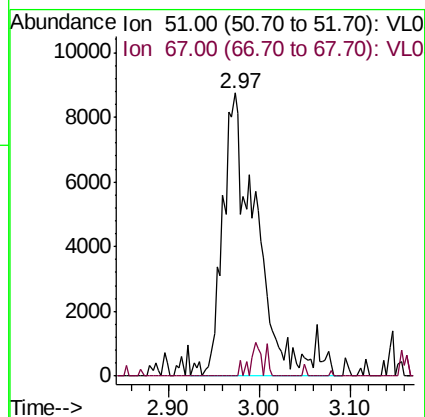
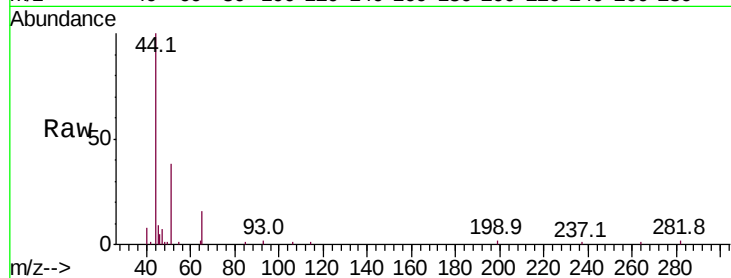
Acq: 9 Nov 2021 22:45

Tot Ion: 51 Resp: 22667

Ion Ratio Lower Upper

51 100

67 4.5 13.4 20.0#



#4

Chloromethane

Concen: 0.082 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL037991.D

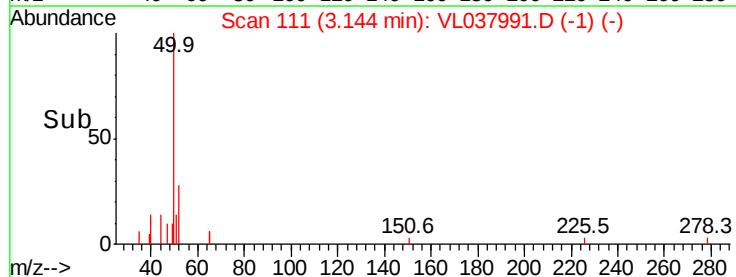
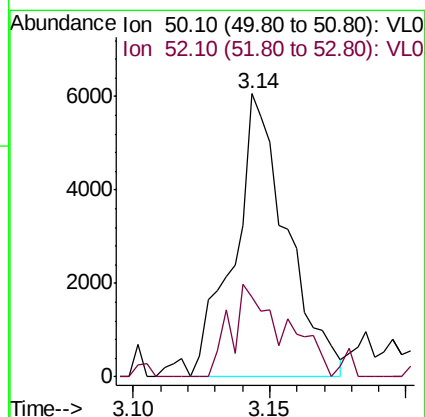
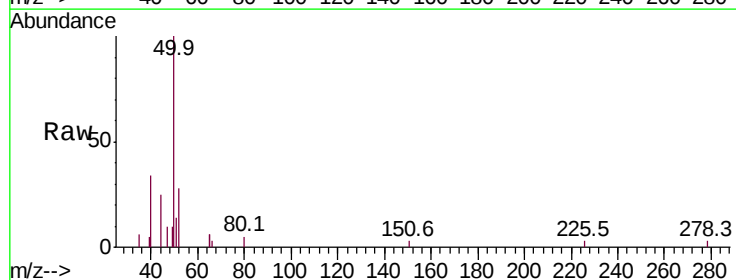
Acq: 9 Nov 2021 22:45

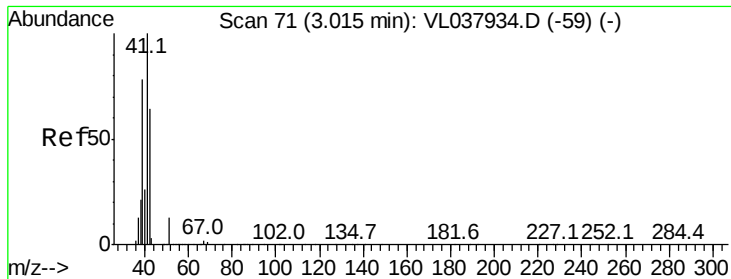
Tgt Ion: 50 Resp: 8102

Ion Ratio Lower Upper

50 100

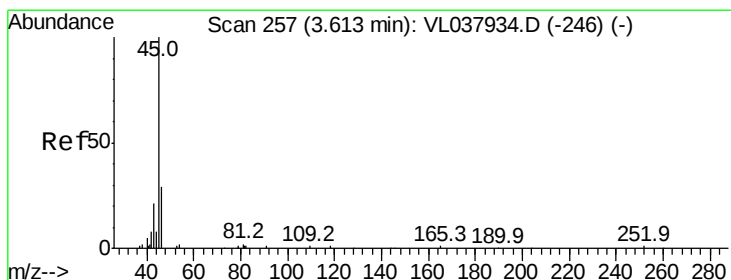
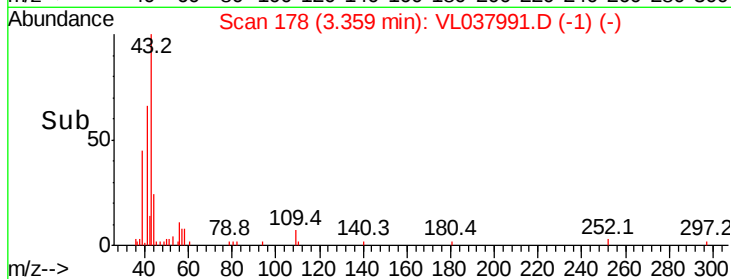
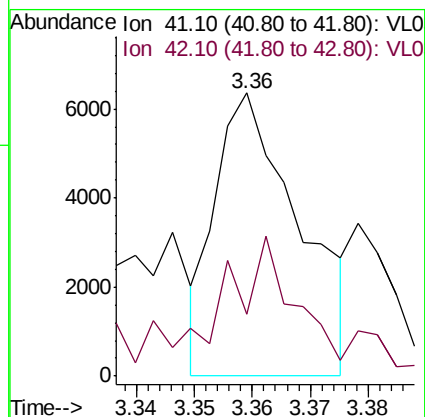
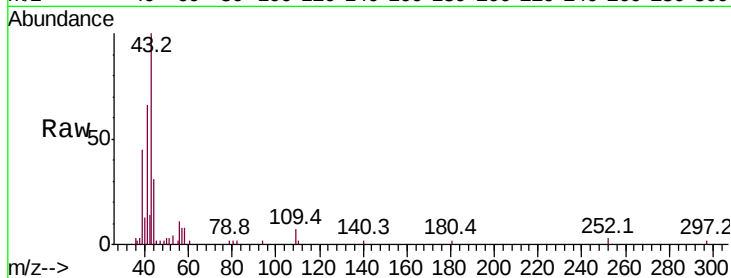
52 28.4 26.3 39.5





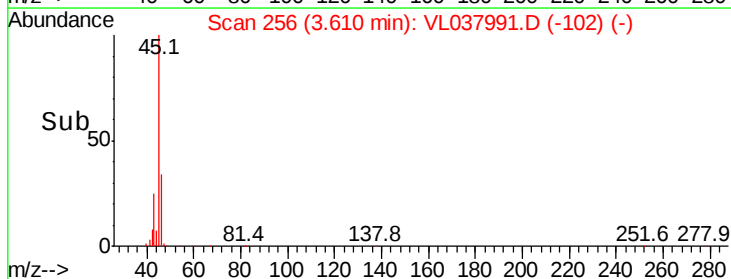
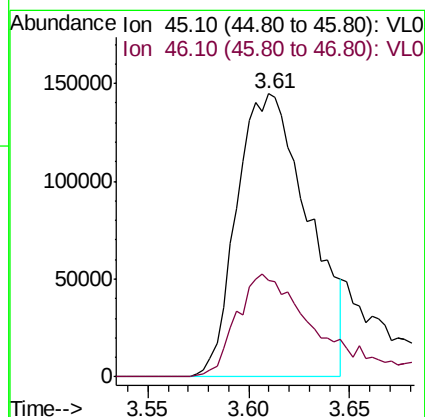
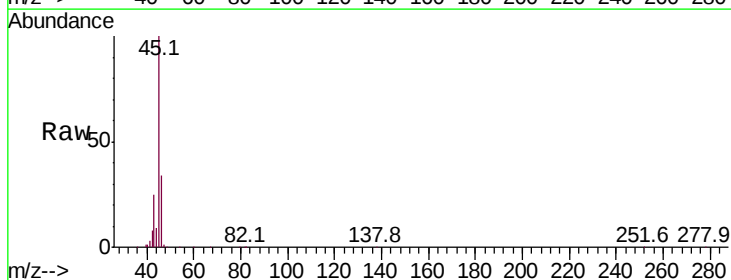
#9
 Propene
 Concen: 0.068 ppbv
 RT: 3.36
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId :
 Acq: 9 Nov 2021 22:45

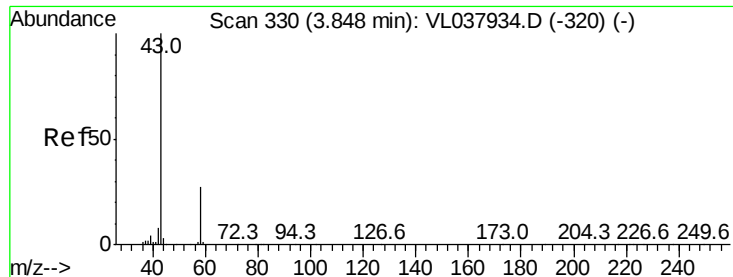
Tot Ion: 41 Resp: 6395
 Ion Ratio Lower Upper
 41 100
 42 74.8 57.6 86.4



#13
 Ethanol
 Concen: 37.933 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. -0.00 min
 Lab File: VL037991.D
 Acq: 9 Nov 2021 22:45

Tgt Ion: 45 Resp: 358727
 Ion Ratio Lower Upper
 45 100
 46 46.2 17.4 69.8





#15

Acetone

Concen: 1.728 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

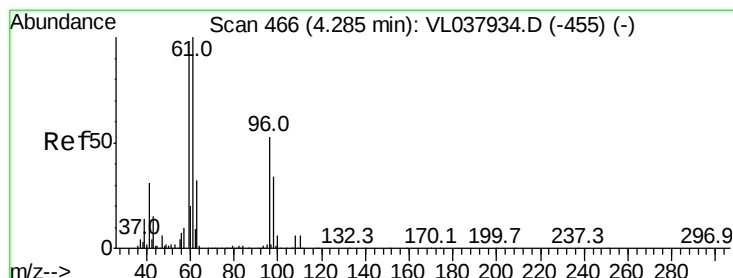
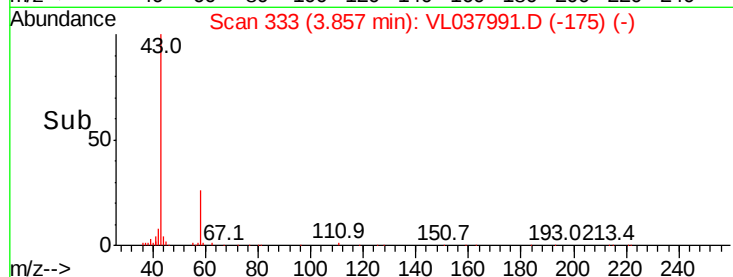
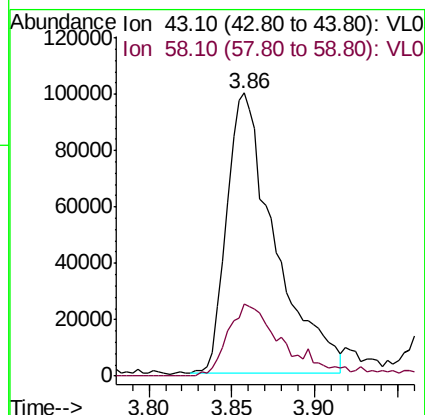
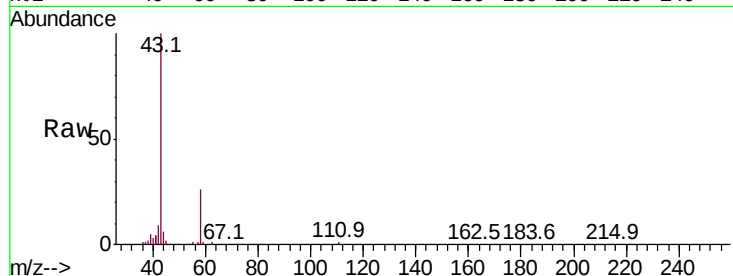
Acq: 9 Nov 2021 22:45

Tot Ion: 43 Resp: 200561

Ion Ratio Lower Upper

43 100

58 31.3 23.3 34.9



#17

tert-Butyl alcohol

Concen: 0.180 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.03 min

Lab File: VL037991.D

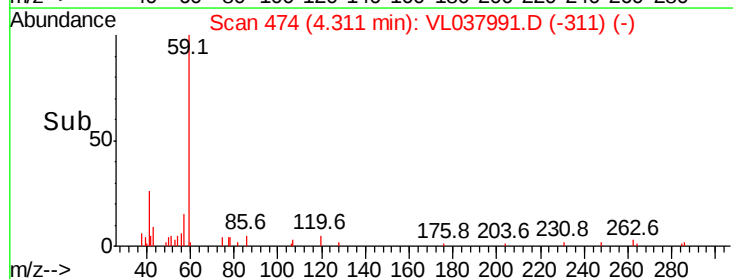
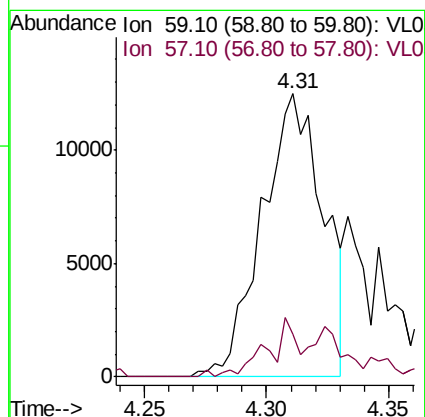
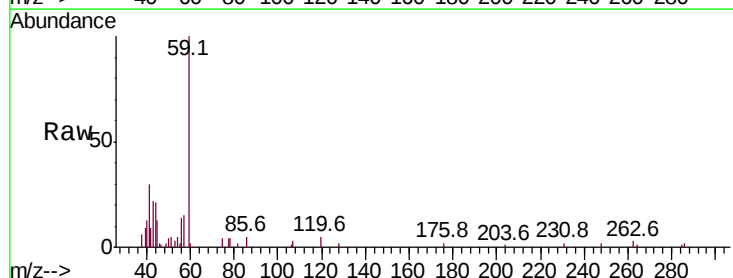
Acq: 9 Nov 2021 22:45

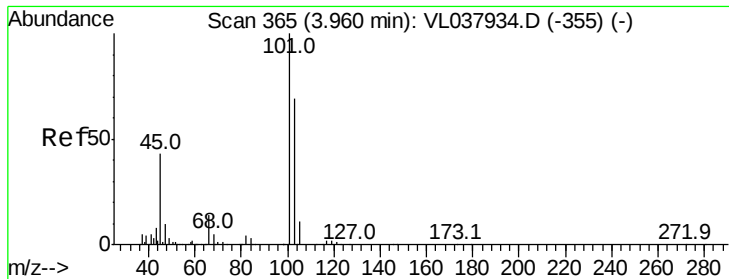
Tgt Ion: 59 Resp: 21698

Ion Ratio Lower Upper

59 100

57 21.2 8.9 13.3#





#19

Isopropyl Alcohol

Concen: 2.432 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

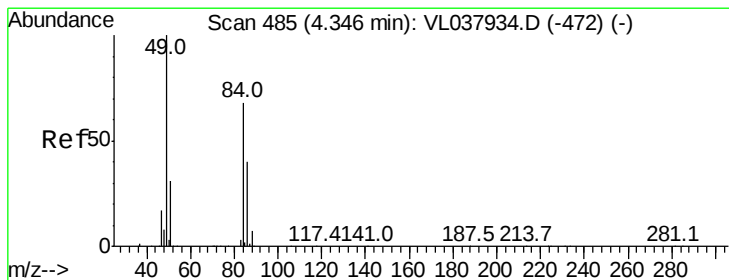
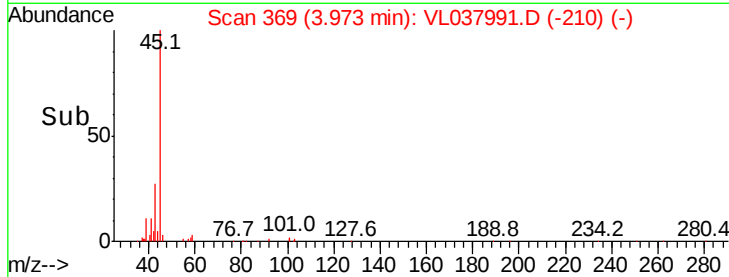
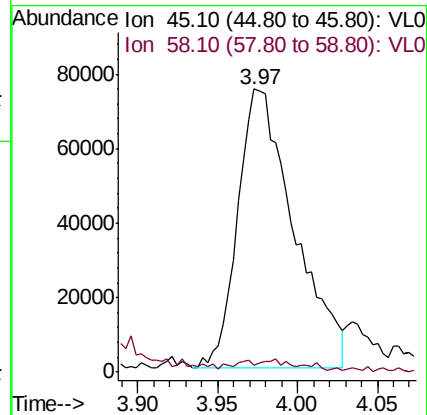
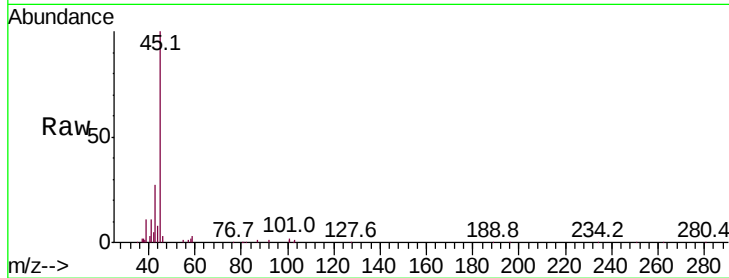
Acq: 9 Nov 2021 22:45

Tot Ion: 45 Resp: 180470

Ion Ratio Lower Upper

45 100

58 6.6 4.0 6.0#



#20

Methylene Chloride

Concen: 1.148 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.00 min

Lab File: VL037991.D

Acq: 9 Nov 2021 22:45

Tgt Ion: 84 Resp: 73141

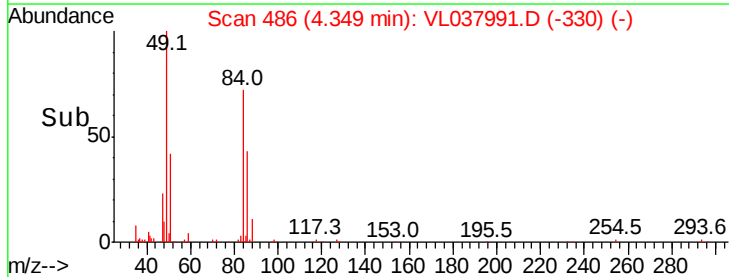
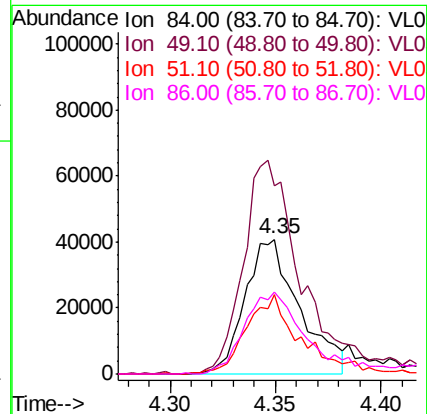
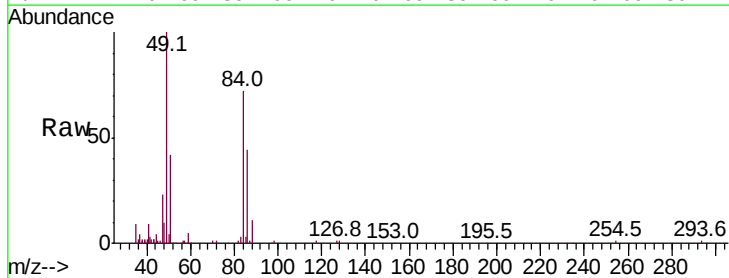
Ion Ratio Lower Upper

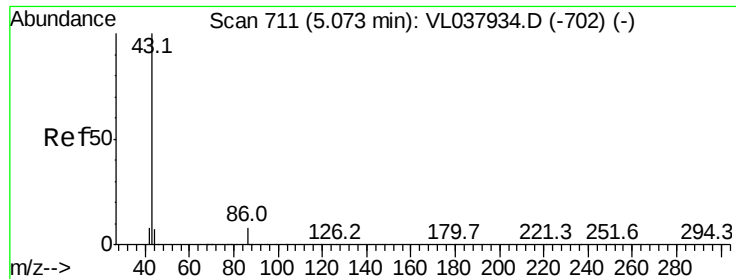
84 100

49 137.7 117.5 176.3

51 57.4 35.9 53.9#

86 60.8 47.3 70.9





#23

Vinyl Acetate

Concen: 0.046 ppbv

RT: 5.07 Instrument:

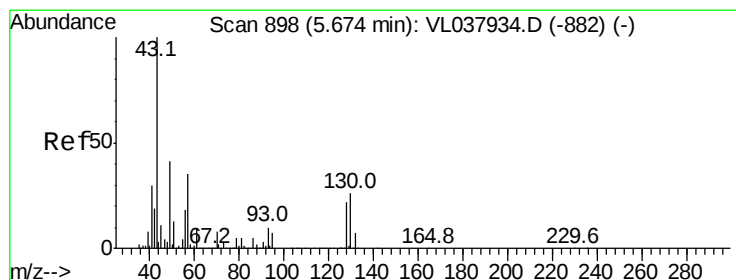
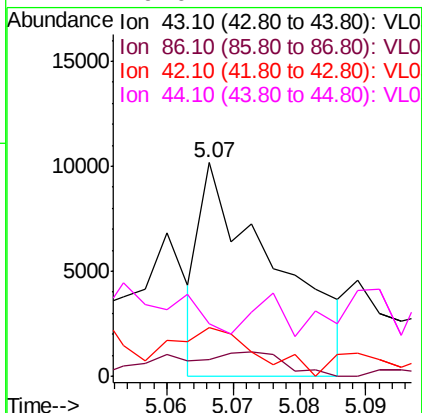
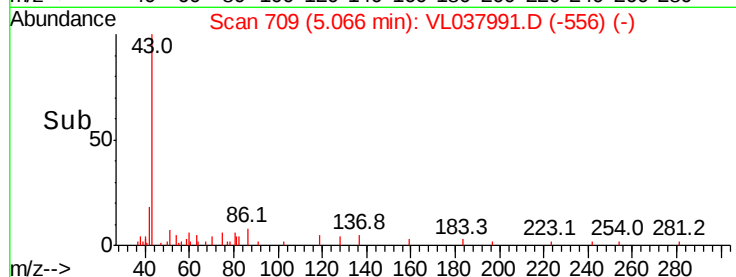
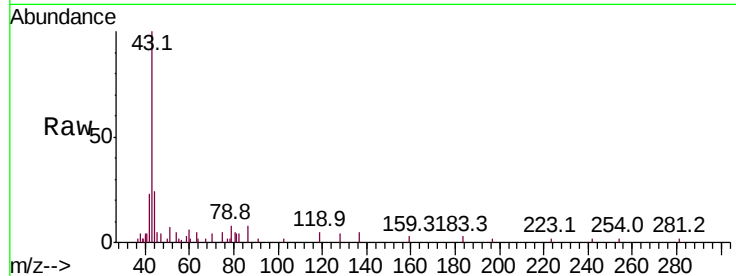
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 9 Nov 2021 22:45

Tot Ion: 43 Resp: 8010

Ion	Ratio	Lower	Upper
43	100		
86	12.1	5.5	8.3#
42	18.9	7.4	11.2#
44	0.0	4.7	7.1#



#25

Ethyl Acetate

Concen: 0.116 ppbv

RT: 5.69 min Scan# 902

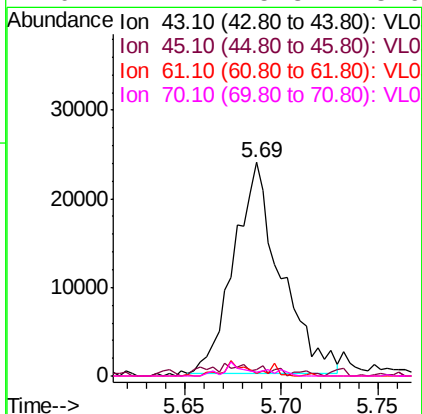
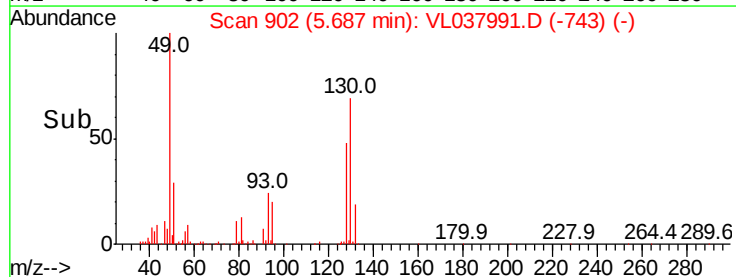
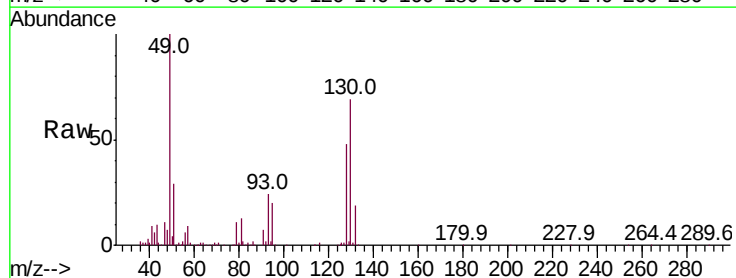
Delta R.T. 0.01 min

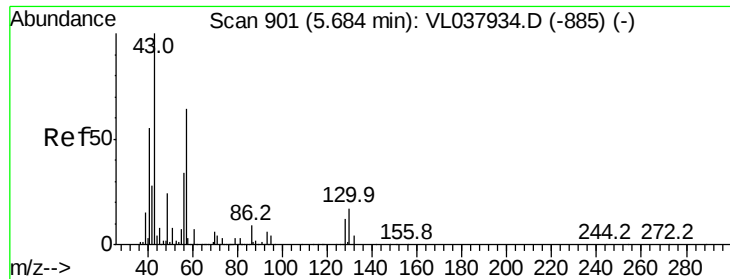
Lab File: VL037991.D

Acq: 9 Nov 2021 22:45

Tgt Ion: 43 Resp: 39993

Ion	Ratio	Lower	Upper
43	100		
45	8.0	8.1	12.1#
61	4.6	8.1	12.1#
70	4.2	5.8	8.6#





#26

Hexane

Concen: 0.225 ppbv

RT: 5.69 Instrument :

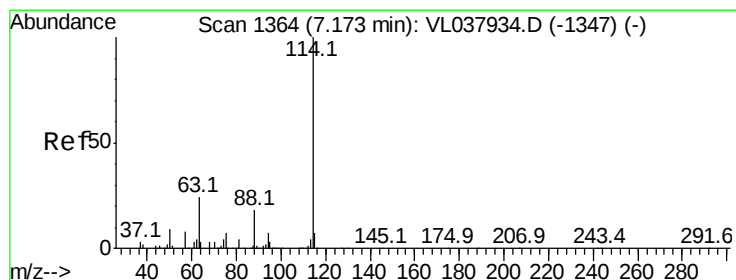
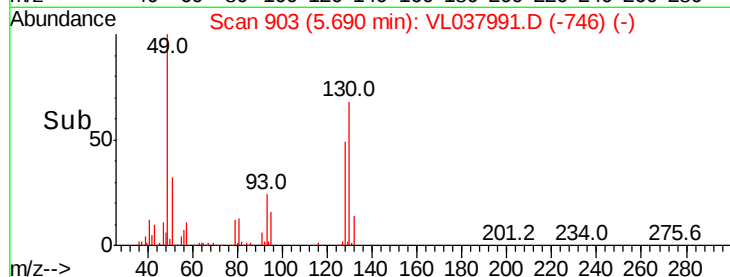
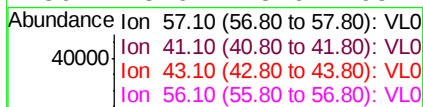
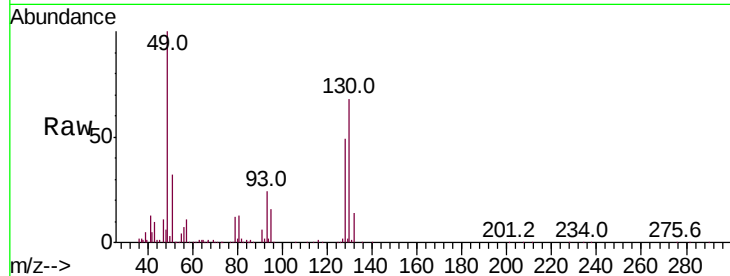
Delta R.T. MSVOA_1

Lab File: ClientSampleId :

Acq: 9 Nov 2021 22:45

Tot Ion: 57 Resp: 36746

Ion	Ratio	Lower	Upper
57	100		
41	137.1	71.0	106.6#
43	122.6	173.0	259.6#
56	78.6	43.6	65.4#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

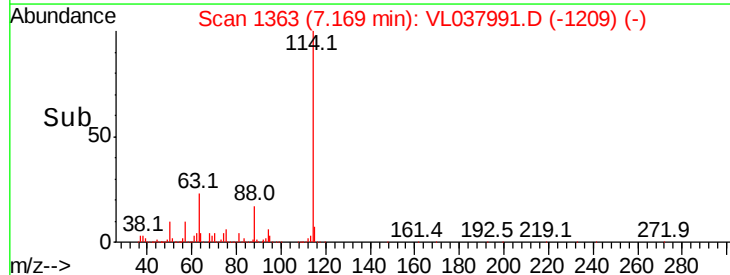
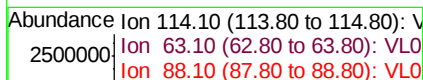
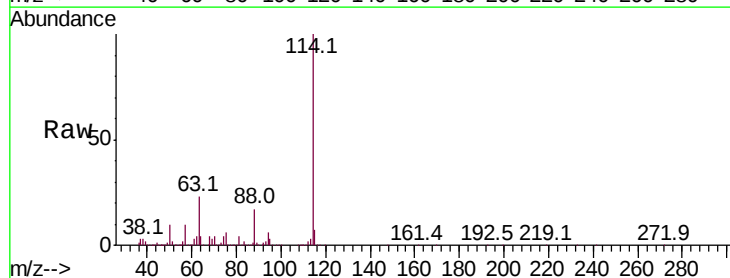
Delta R.T. -0.00 min

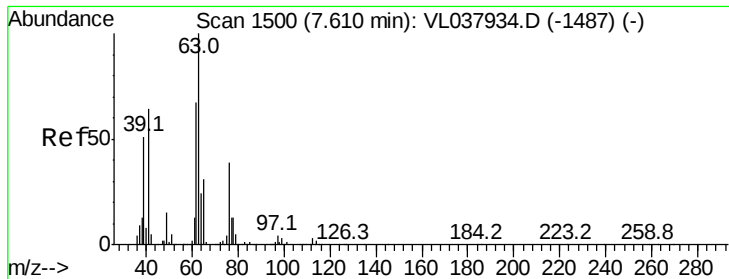
Lab File: VL037991.D

Acq: 9 Nov 2021 22:45

Tgt Ion: 114 Resp: 4158836

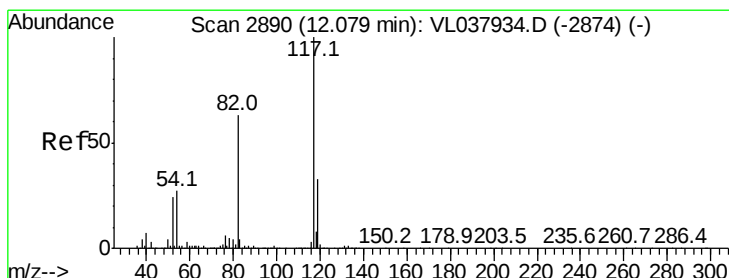
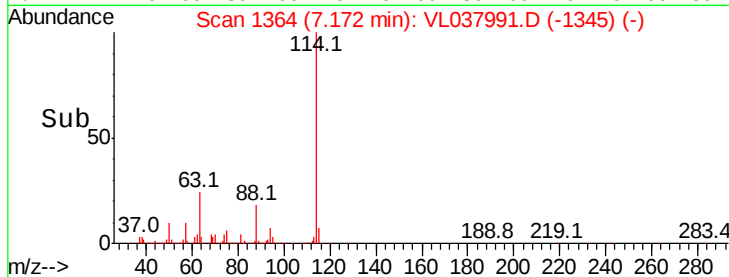
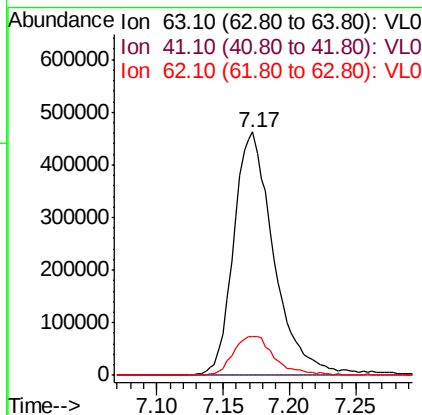
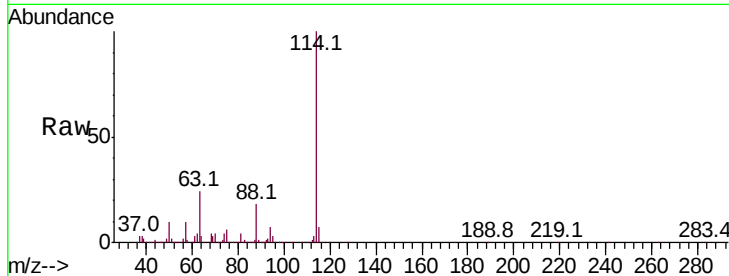
Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.4	29.0
88	17.6	14.2	21.4





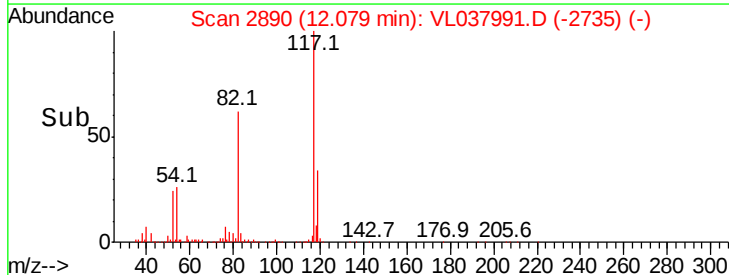
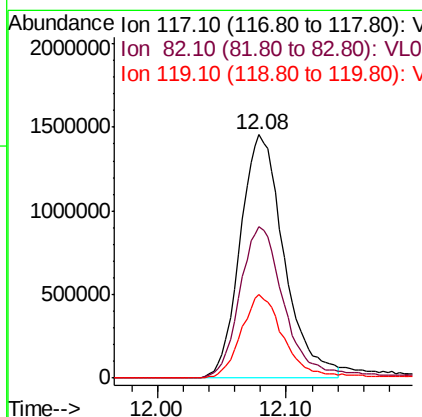
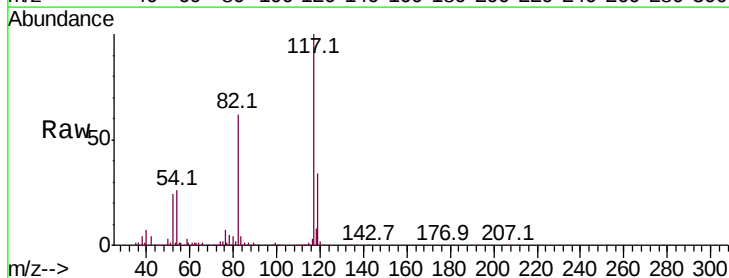
#39
 1,2-Dichloropropane
 Concen: 7.574 ppbv
 RT: 7.17
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 9 Nov 2021 22:45

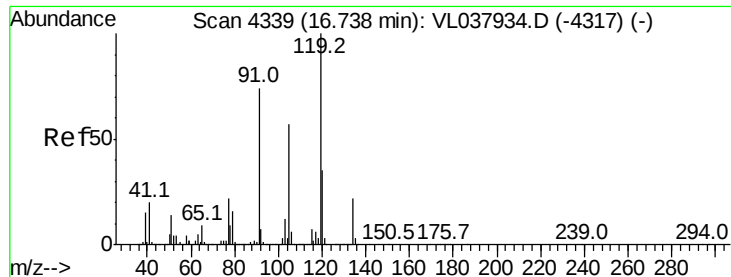
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	15.7	53.5	80.3#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.08 min Scan# 2890
 Delta R.T.: -0.00 min
 Lab File: VL037991.D
 Acq: 9 Nov 2021 22:45

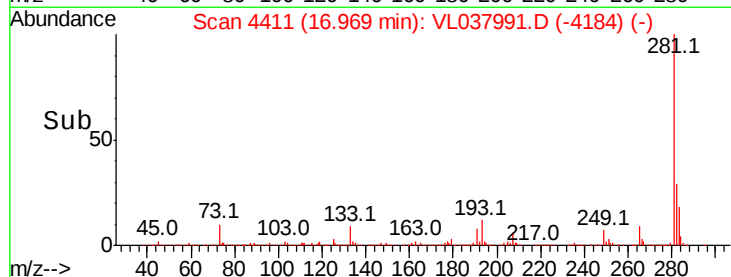
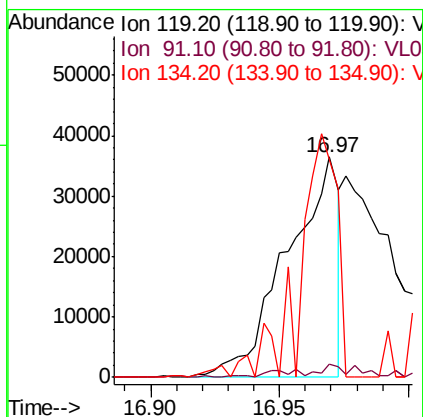
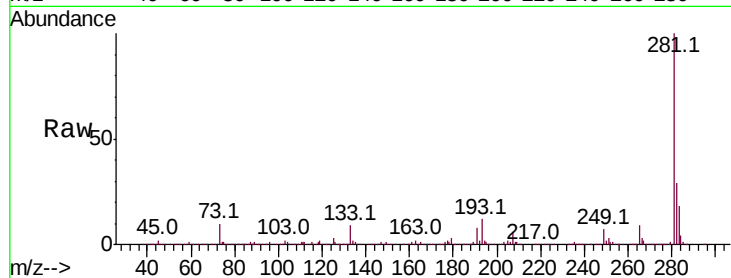
Tgt Ion	Ratio	Lower	Upper
117	100		
82	66.0	51.0	76.6
119	34.9	26.9	40.3





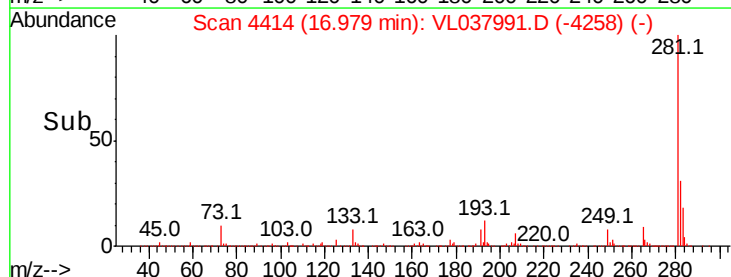
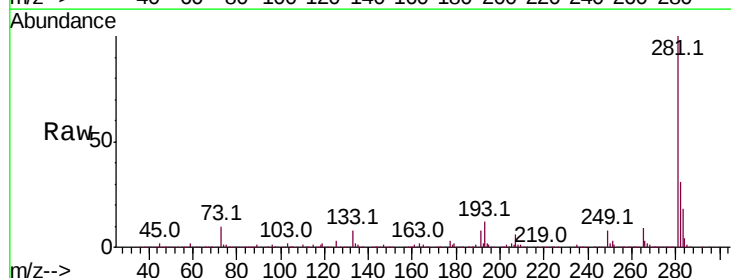
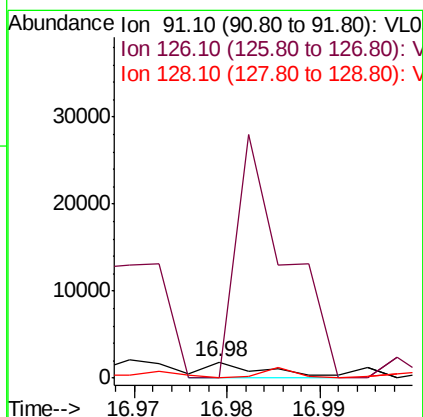
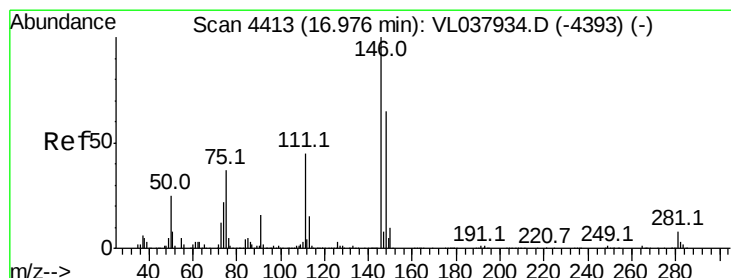
#65
tert-Butylbenzene
Concen: 0.114 ppbv
RT: 16.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 9 Nov 2021 22:45

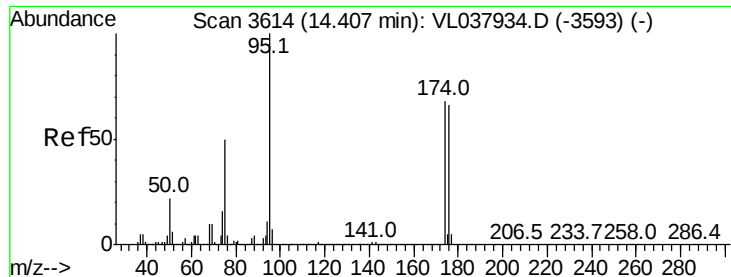
Tot Ion: 119 Resp: 50302
Ion Ratio Lower Upper
119 100
91 7.9 61.8 92.6#
134 77.0 16.6 25.0#



#66
Benzyl Chloride
Concen: 0.037 ppbv
RT: 16.98 min Scan# 4414
Delta R.T.: 0.00 min
Lab File: VL037991.D
Acq: 9 Nov 2021 22:45

Tgt Ion: 91 Resp: 864
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.6#
128 0.0 5.1 7.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.254 ppbv

RT: 14.41 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 9 Nov 2021 22:45

Tot Ion: 95 Resp: 2318003

Ion Ratio Lower Upper

95 100

174 77.1 58.3 87.5

175 5.8 4.6 6.8

