

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091721\
 Data File : VL037647.D
 Acq On : 17 Sep 2021 18:41
 Operator : SY/AP
 Sample : M3801-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 18 06:19:04 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1366380	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3964647	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3346000	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2384416	9.86	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

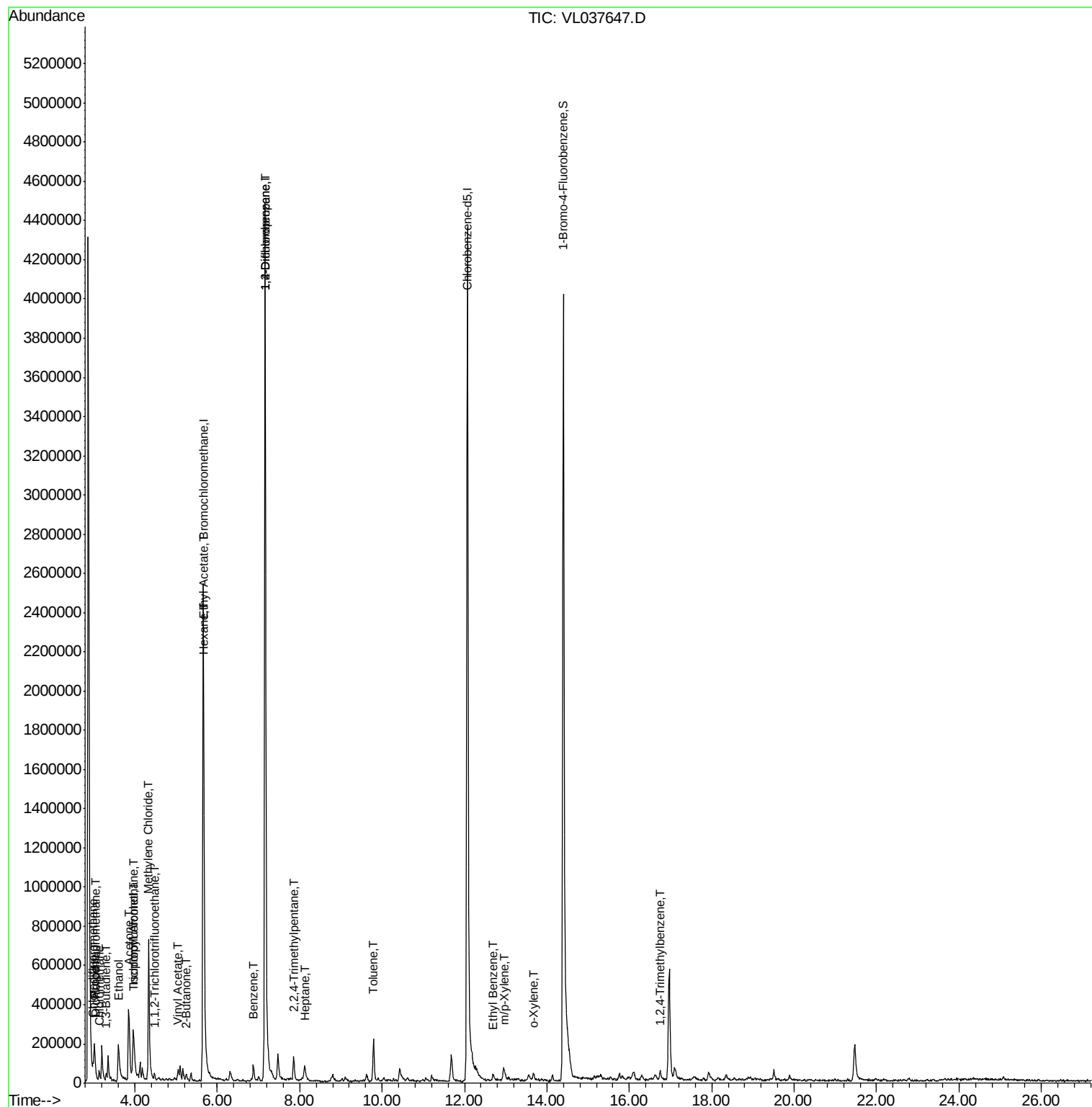
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	22601	0.091 ppbv	89
3) Chlorodifluoromethane	2.98	51	106999	0.415 ppbv #	84
4) Chloromethane	3.13	50	50935	0.535 ppbv #	80
9) Propene	3.01	41	53605	0.590 ppbv	88
10) Heptane	8.11	43	7062	0.033 ppbv #	1
11) Trichlorofluoromethane	3.94	101	48541	0.245 ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.47	101	7025	0.048 ppbv #	50
13) Ethanol	3.60	45	280590	31.554 ppbv	94
15) Acetone	3.84	43	496528	3.498 ppbv	97
16) 1,3-Butadiene	3.30	39	8031	0.091 ppbv #	47
19) Isopropyl Alcohol	3.97	45	292691	3.789 ppbv #	84
20) Methylene Chloride	4.34	84	293553	4.331 ppbv	93
23) Vinyl Acetate	5.06	43	10849	0.055 ppbv #	89
25) Ethyl Acetate	5.67	43	193931	0.564 ppbv #	90
26) Hexane	5.68	57	216004	1.322 ppbv #	53
34) 2-Butanone	5.24	43	23107	0.143 ppbv #	53
36) Benzene	6.87	78	64348	0.195 ppbv #	88
39) 1,2-Dichloropropane	7.16	63	934252	7.378 ppbv #	27
44) 2,2,4-Trimethylpentane	7.85	57	37212	0.067 ppbv #	42
53) Toluene	9.79	91	152454	0.415 ppbv	97
58) Ethyl Benzene	12.69	91	14347	0.032 ppbv	100
59) m/p-Xylene	12.97	91	21092	0.054 ppbv #	1
60) o-Xylene	13.67	91	13754	0.037 ppbv #	30
74) 1,2,4-Trimethylbenzene	16.74	105	13944	0.034 ppbv #	64

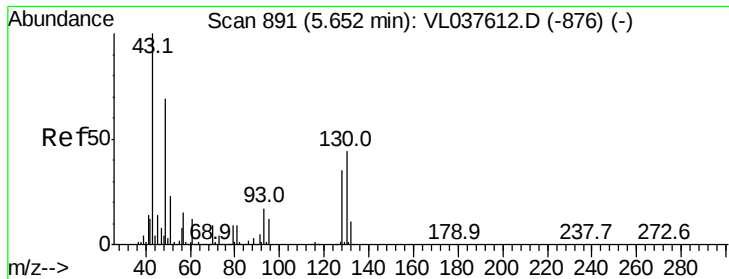
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091721\
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. 0.00 min

Lab File: VL037647.D

Acq: 17 Sep 2021 18:41

Instrument :

MSVOA_L

ClientSampled :

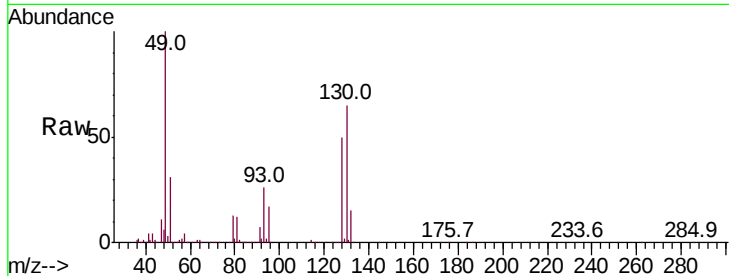
Tot Ion: 49 Resp: 1366380

Ion Ratio Lower Upper

49 100

128 52.6 27.9 83.6

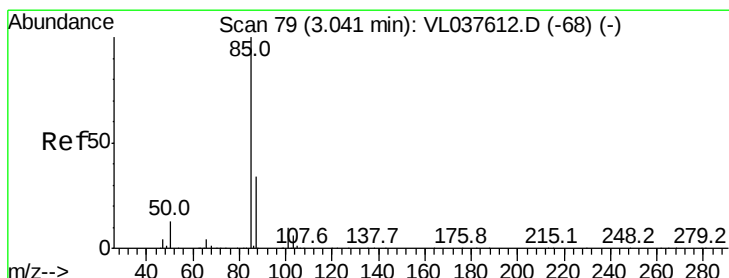
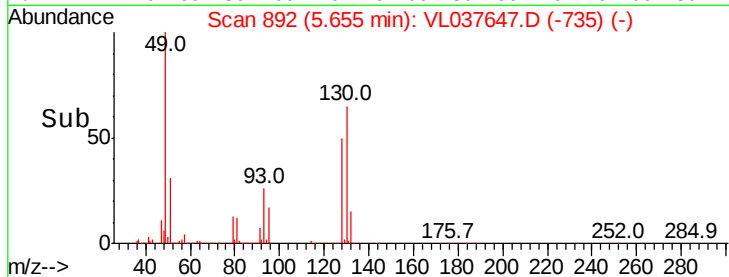
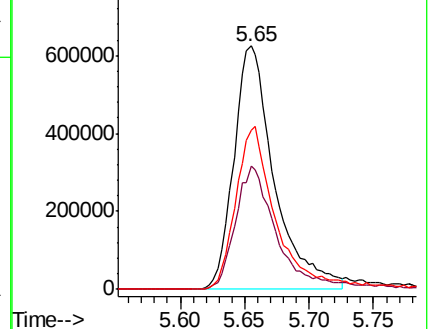
130 67.8 33.9 101.7



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: 0.091 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.01 min

Lab File: VL037647.D

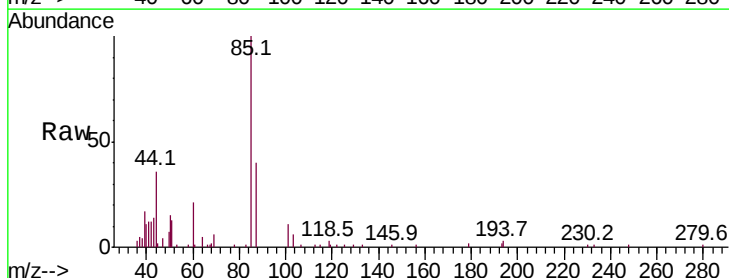
Acq: 17 Sep 2021 18:41

Tgt Ion: 85 Resp: 22601

Ion Ratio Lower Upper

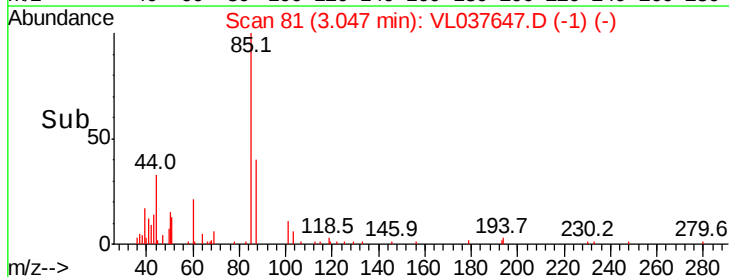
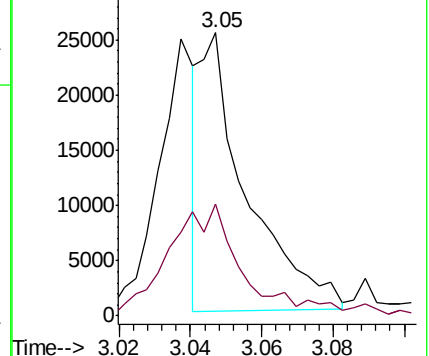
85 100

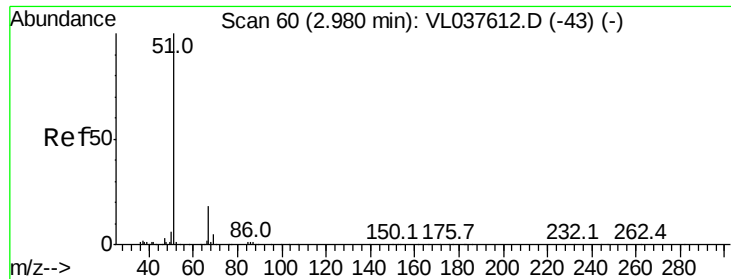
87 39.6 26.8 40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

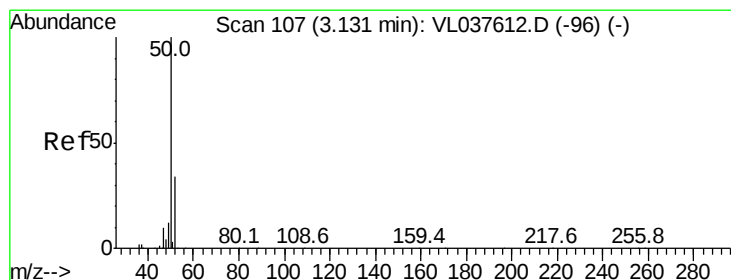
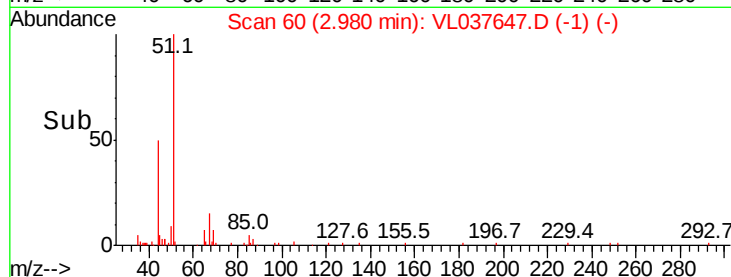
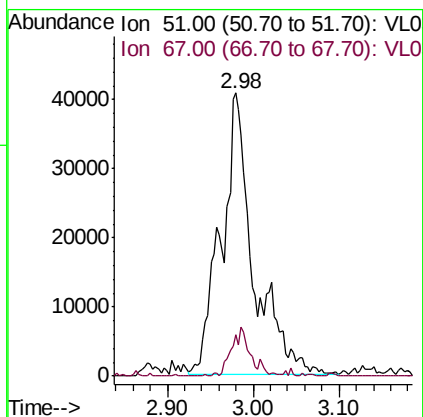
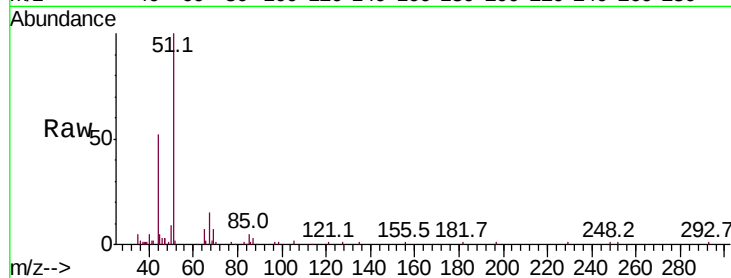




#3
 Chlorodifluoromethane
 Concen: 0.415 ppbv
 RT: 2.98 min Scan# 60
 Delta R.T. 0.00 min
 Lab File: VL037647.D
 Acq: 17 Sep 2021 18:41

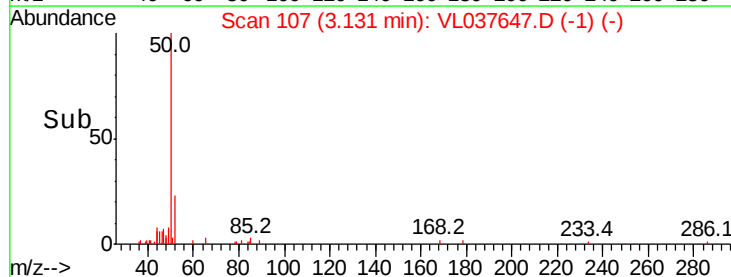
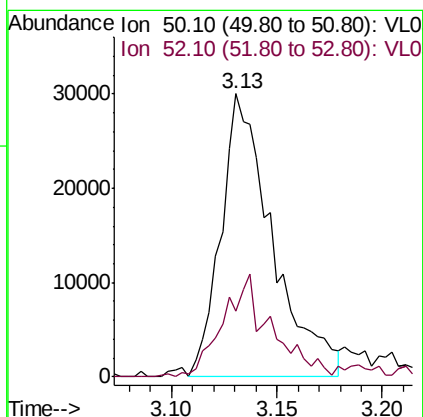
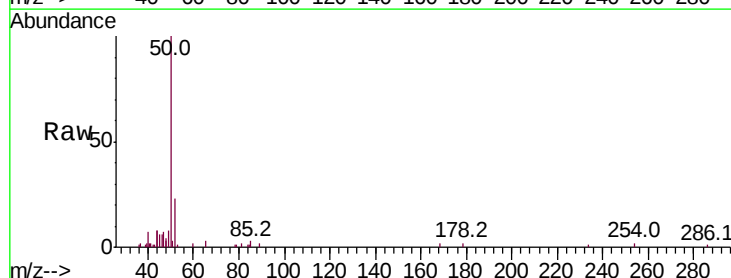
Instrument :
 MSVOA_L
 ClientSampled :

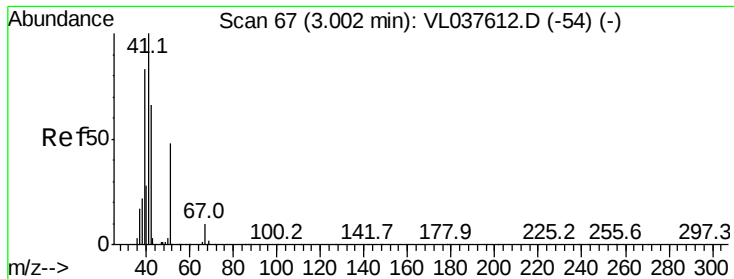
Tot Ion: 51 Resp: 106999
 Ion Ratio Lower Upper
 51 100
 67 10.7 14.0 21.0#



#4
 Chloromethane
 Concen: 0.535 ppbv
 RT: 3.13 min Scan# 107
 Delta R.T. 0.00 min
 Lab File: VL037647.D
 Acq: 17 Sep 2021 18:41

Tgt Ion: 50 Resp: 50935
 Ion Ratio Lower Upper
 50 100
 52 22.2 27.1 40.7#

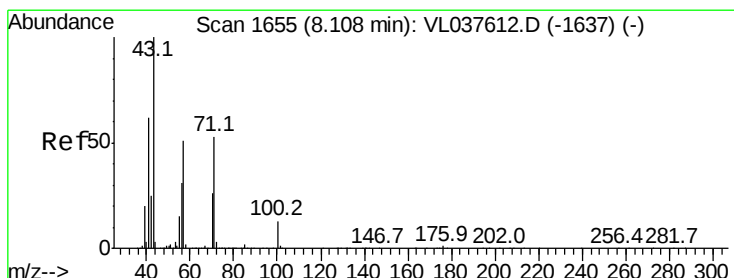
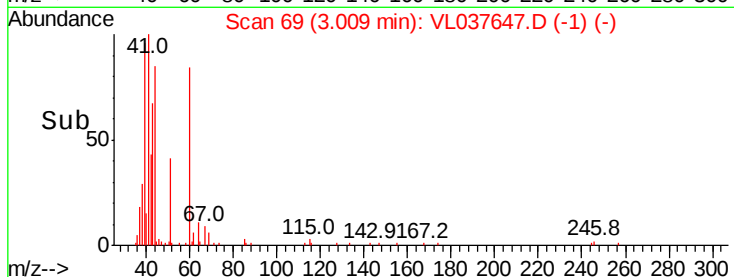
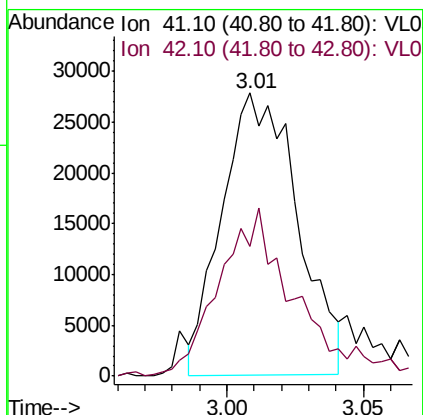
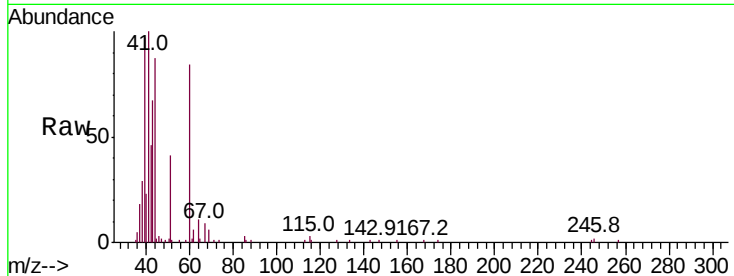




#9
 Propene
 Concen: 0.590 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.01 min
 Lab File: VL037647.D
 Acq: 17 Sep 2021 18:41

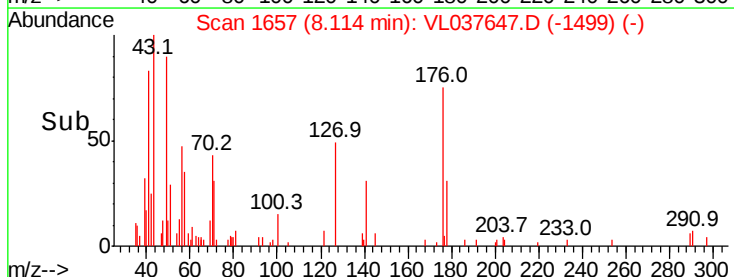
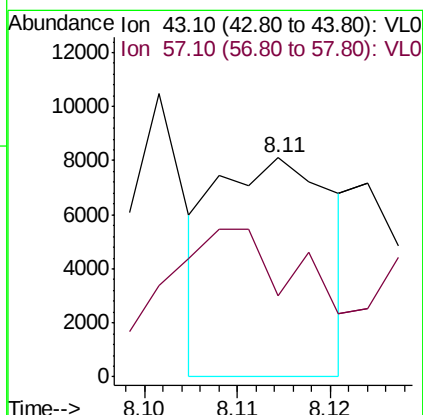
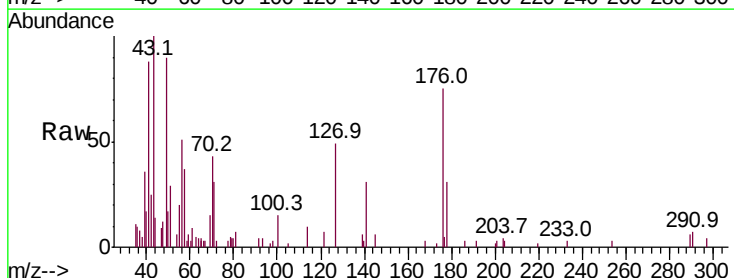
Instrument :
 MSVOA_L
 ClientSampled :

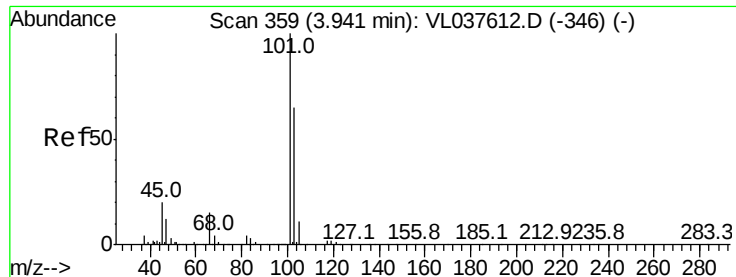
Tot Ion: 41 Resp: 53605
 Ion Ratio Lower Upper
 41 100
 42 61.7 57.2 85.8



#10
 Heptane
 Concen: 0.033 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. 0.01 min
 Lab File: VL037647.D
 Acq: 17 Sep 2021 18:41

Tgt Ion: 43 Resp: 7062
 Ion Ratio Lower Upper
 43 100
 57 155.8 40.1 60.1#





#11

Trichlorofluoromethane

Concen: 0.245 ppbv

RT: 3.94 min Scan# 360

Delta R.T. 0.00 min

Lab File: VL037647.D

Acq: 17 Sep 2021 18:41

Instrument :

MSVOA_L

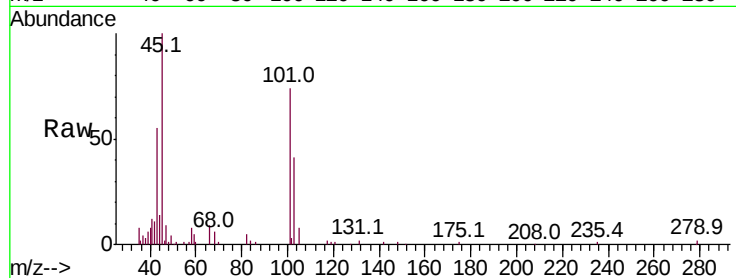
ClientSampleId :

Tot Ion:101 Resp: 48541

Ion Ratio Lower Upper

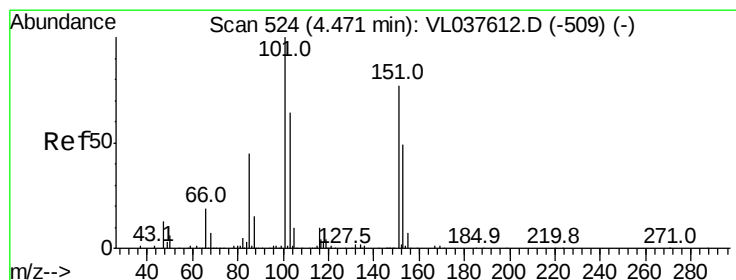
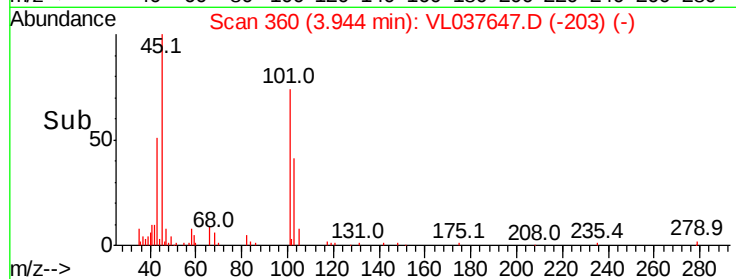
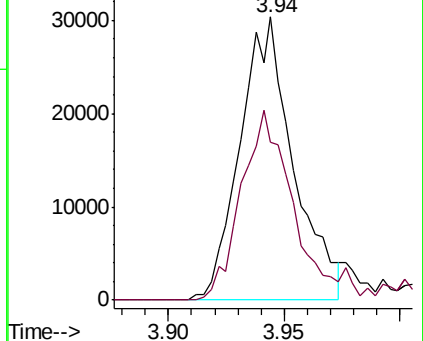
101 100

103 55.7 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.048 ppbv

RT: 4.47 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL037647.D

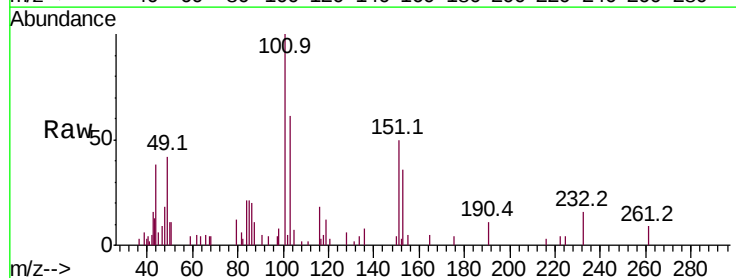
Acq: 17 Sep 2021 18:41

Tgt Ion:101 Resp: 7025

Ion Ratio Lower Upper

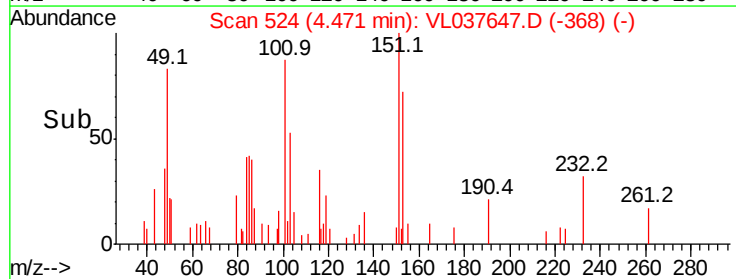
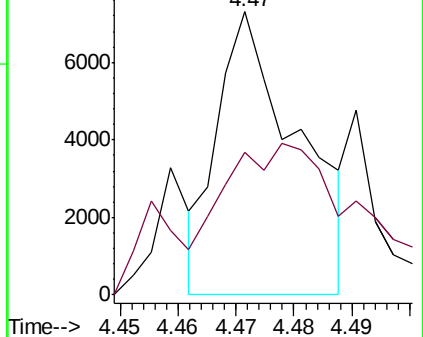
101 100

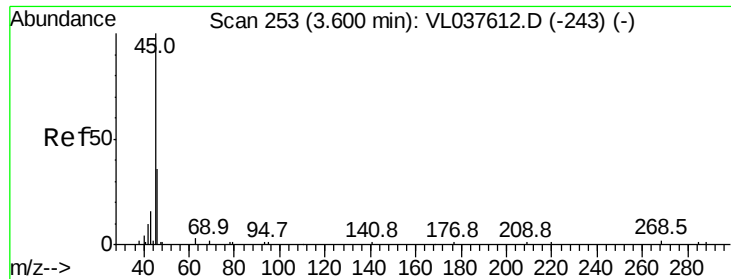
151 122.9 63.5 95.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

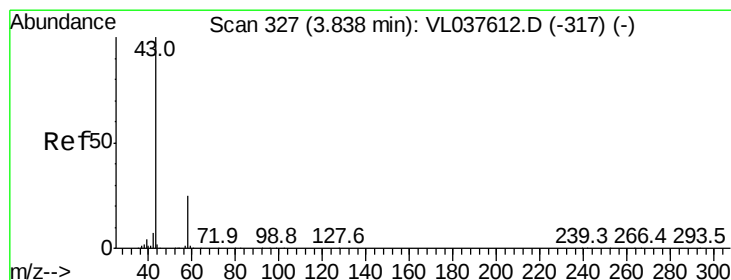
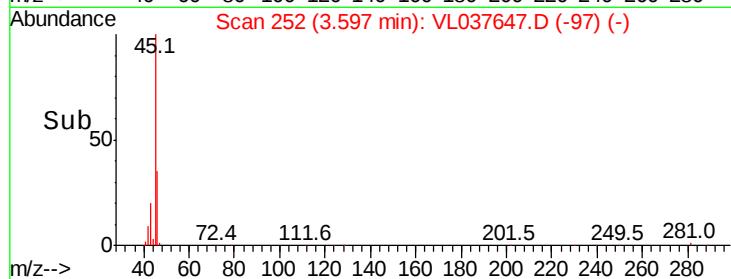
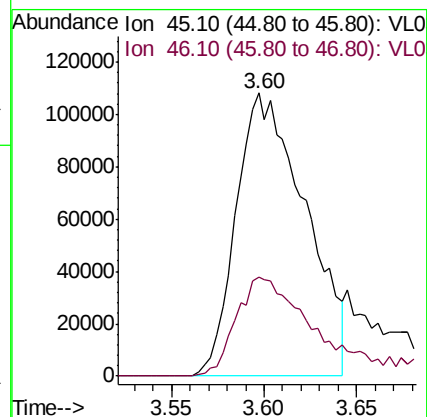
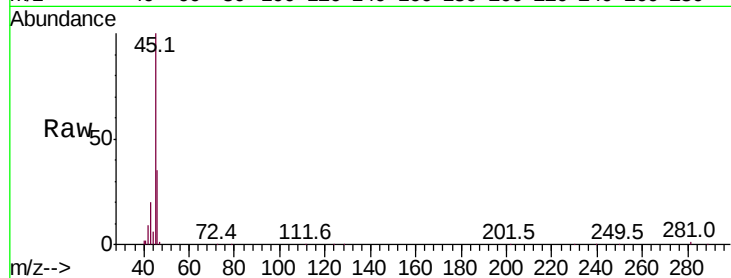




#13
Ethanol
Concen: 31.554 ppbv
RT: 3.60 min Scan# 252
Delta R.T. -0.00 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

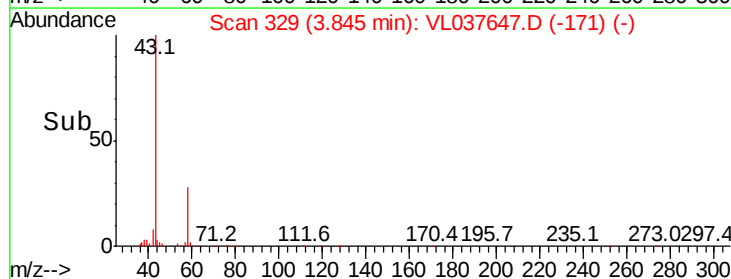
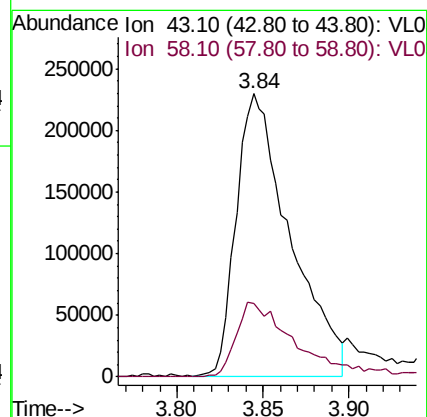
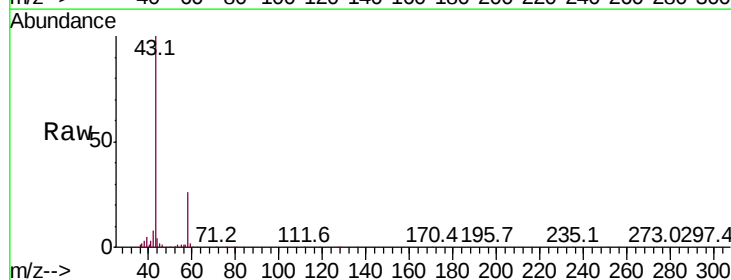
Instrument :
MSVOA_L
ClientSampleId :

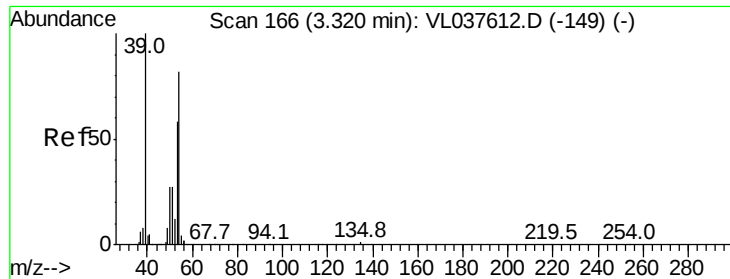
Tot Ion: 45 Resp: 280590
Ion Ratio Lower Upper
45 100
46 39.2 17.2 68.8



#15
Acetone
Concen: 3.498 ppbv
RT: 3.84 min Scan# 329
Delta R.T. 0.01 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

Tgt Ion: 43 Resp: 496528
Ion Ratio Lower Upper
43 100
58 29.2 24.9 37.3

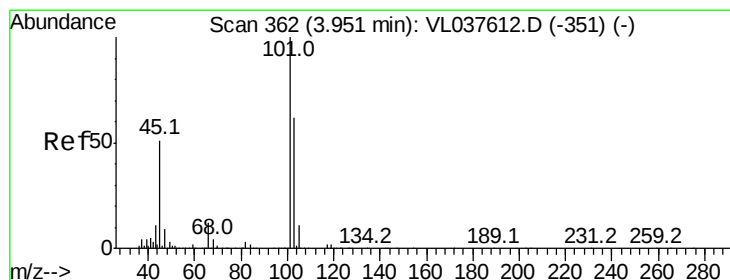
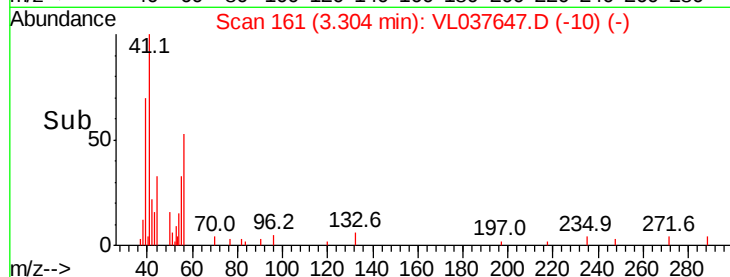
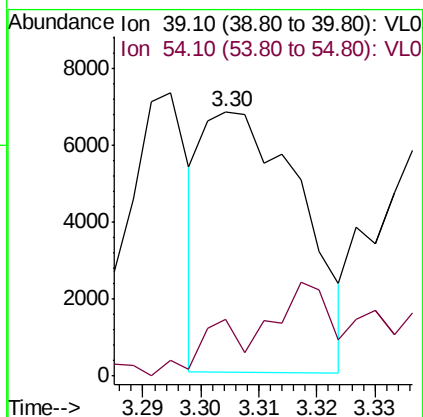
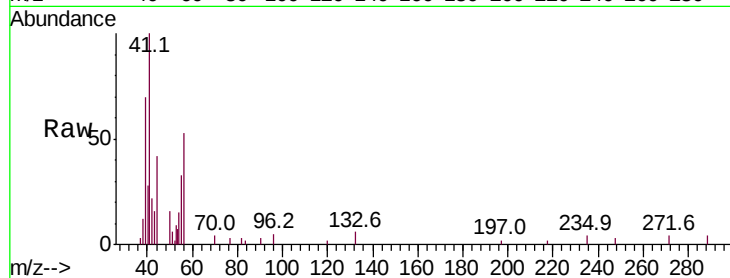




#16
1,3-Butadiene
Concen: 0.091 ppbv
RT: 3.30 min Scan# 161
Delta R.T. -0.02 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

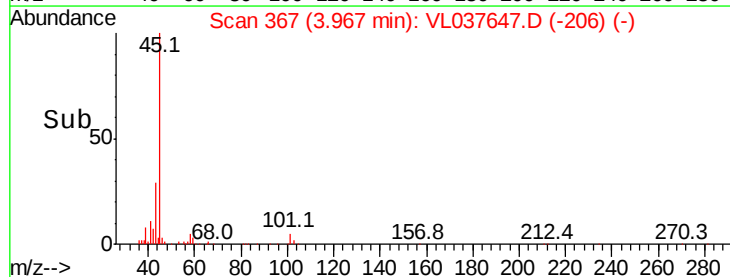
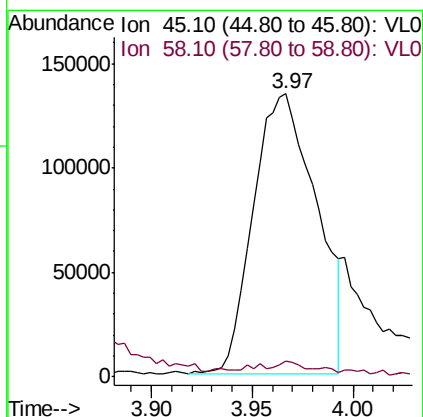
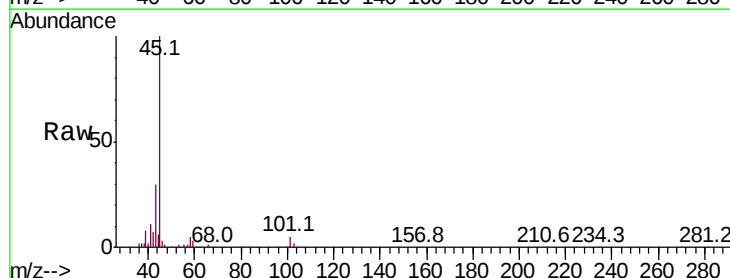
Instrument :
MSVOA_L
ClientSampleId :

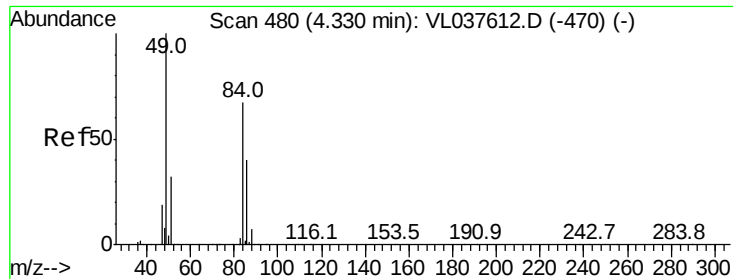
Tot Ion: 39 Resp: 8031
Ion Ratio Lower Upper
39 100
54 32.1 62.6 93.8#



#19
Isopropyl Alcohol
Concen: 3.789 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.02 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

Tgt Ion: 45 Resp: 292691
Ion Ratio Lower Upper
45 100
58 8.8 2.9 4.3#

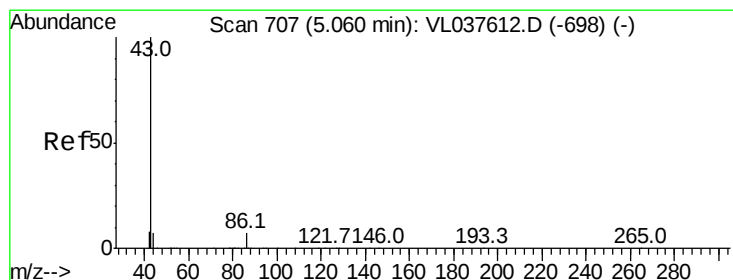
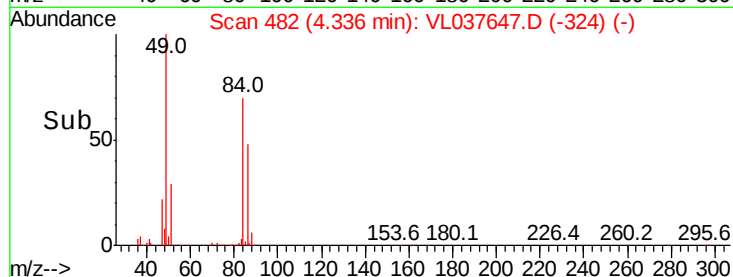
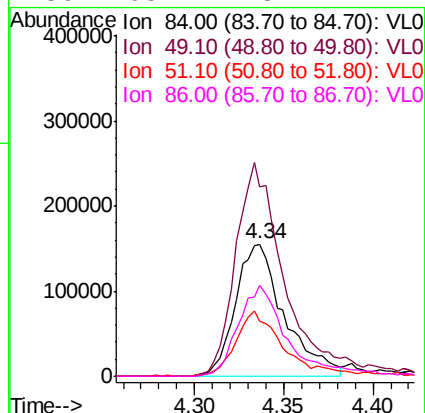
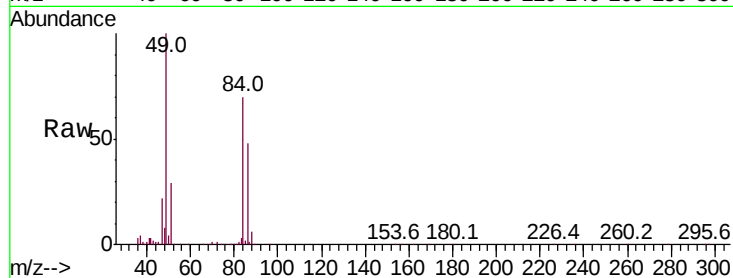




#20
Methylene Chloride
Concen: 4.331 ppbv
RT: 4.34 min Scan# 482
Delta R.T. 0.01 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

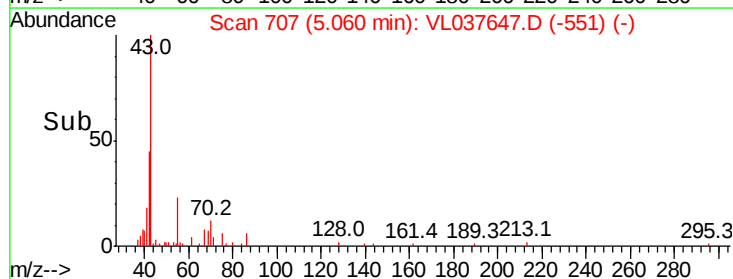
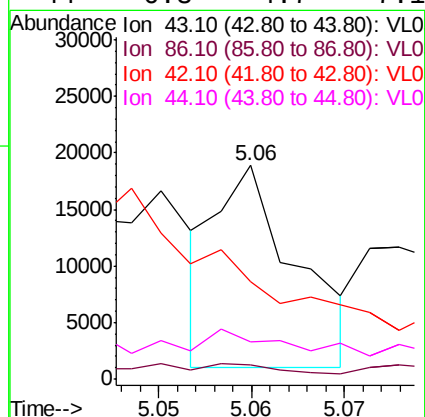
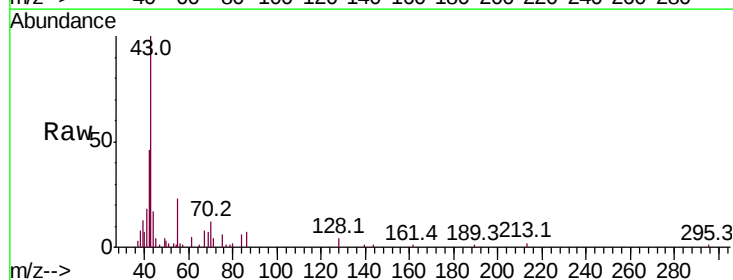
Instrument :
MSVOA_L
ClientSampleId :

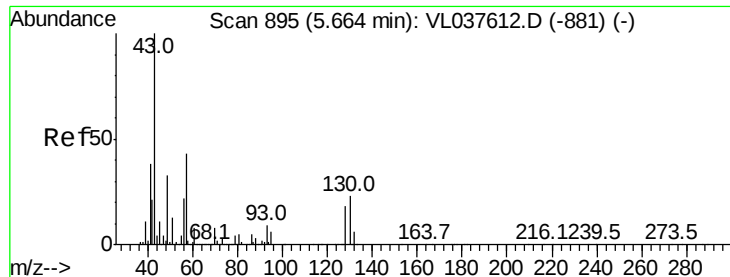
Tot Ion:	84	Resp:	293553
Ion	Ratio	Lower	Upper
84	100		
49	143.4	120.0	180.0
51	41.3	38.0	57.0
86	68.2	48.2	72.2



#23
Vinyl Acetate
Concen: 0.055 ppbv
RT: 5.06 min Scan# 707
Delta R.T. 0.00 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

Tgt Ion:	43	Resp:	10849
Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.0	7.6
42	17.5	7.5	11.3#
44	6.3	4.7	7.1

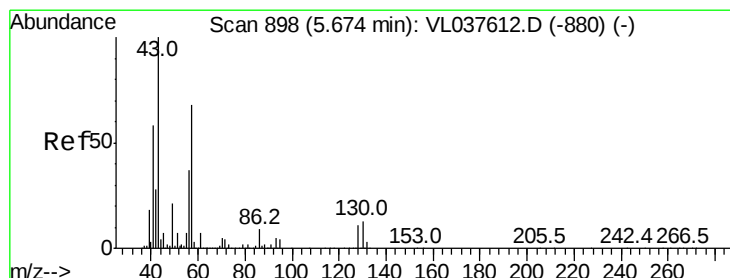
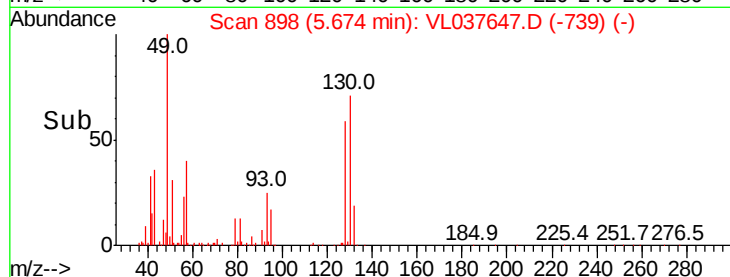
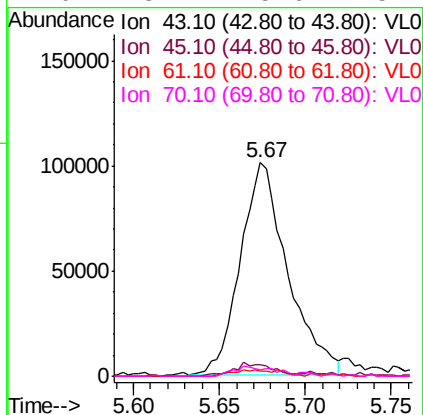
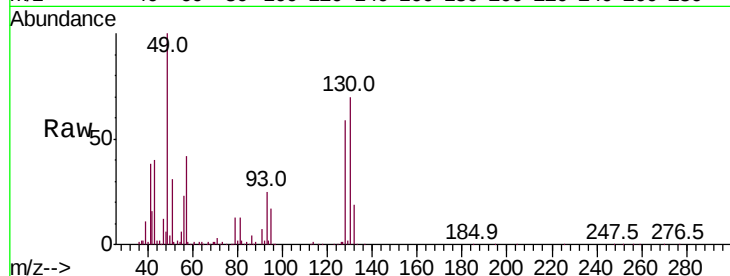




#25
Ethyl Acetate
Concen: 0.564 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.01 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

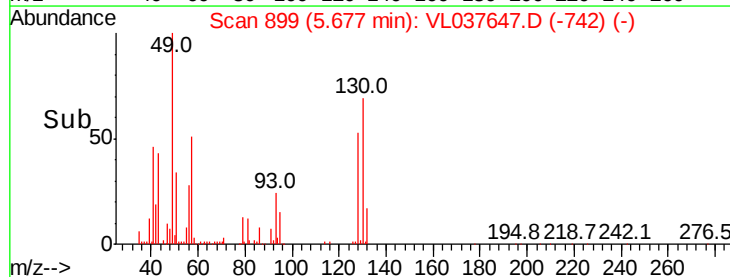
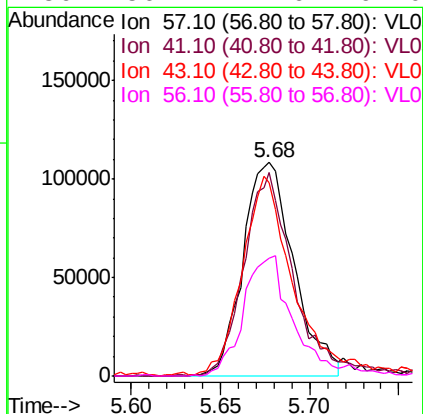
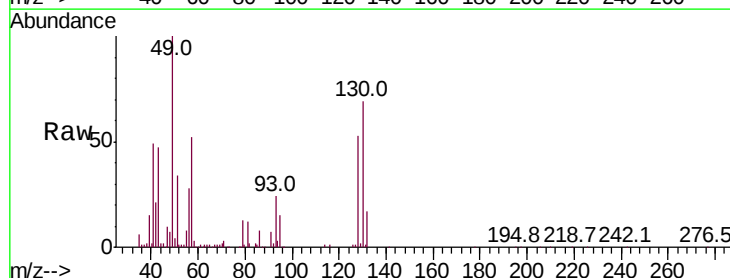
Instrument :
MSVOA_L
ClientSampleId :

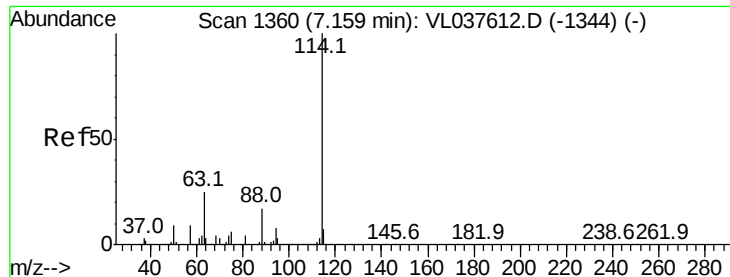
Tot Ion:	43	Resp:	193931
Ion	Ratio	Lower	Upper
43	100		
45	6.6	8.0	12.0#
61	3.7	7.5	11.3#
70	5.2	5.6	8.4#



#26
Hexane
Concen: 1.322 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

Tgt Ion:	57	Resp:	216004
Ion	Ratio	Lower	Upper
57	100		
41	94.4	70.9	106.3
43	95.0	170.4	255.6#
56	56.1	42.6	64.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.00 min

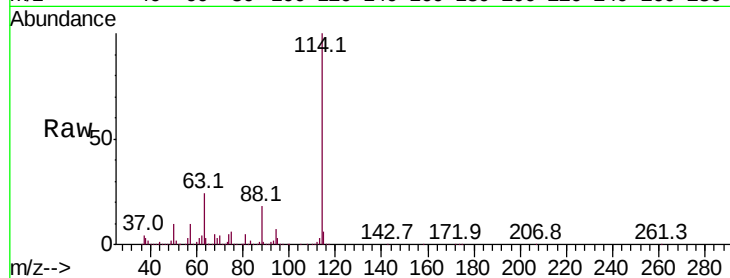
Lab File: VL037647.D

Acq: 17 Sep 2021 18:41

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:114 Resp: 3964647

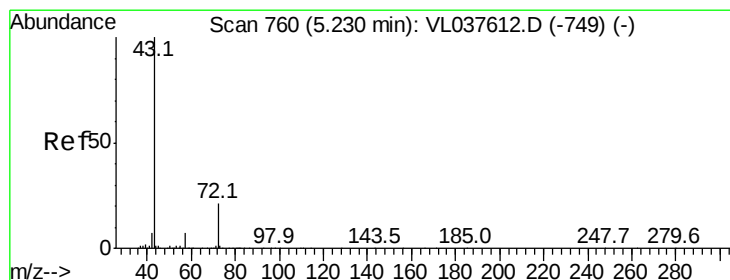
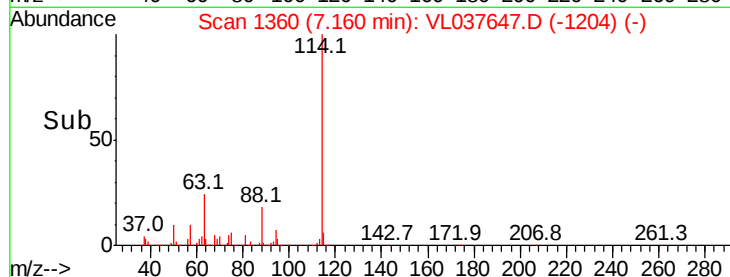
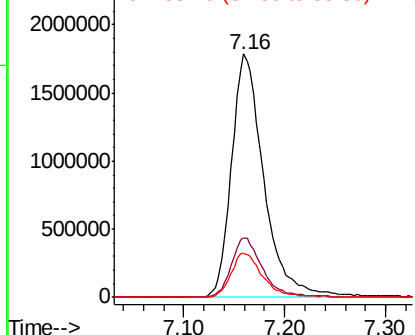
Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	18.3	14.2	21.4



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: 0.143 ppbv

RT: 5.24 min Scan# 764

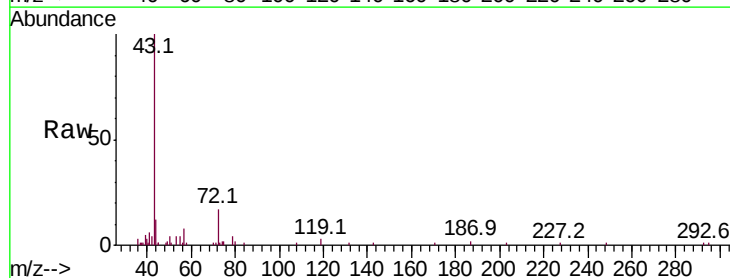
Delta R.T. 0.01 min

Lab File: VL037647.D

Acq: 17 Sep 2021 18:41

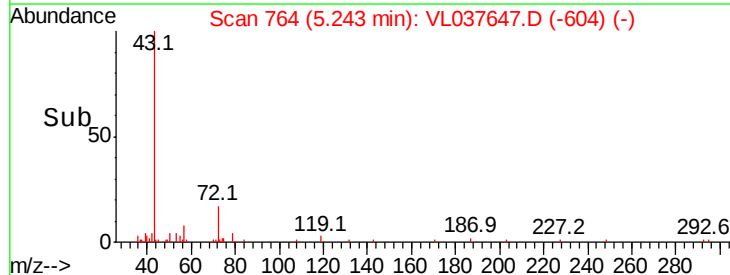
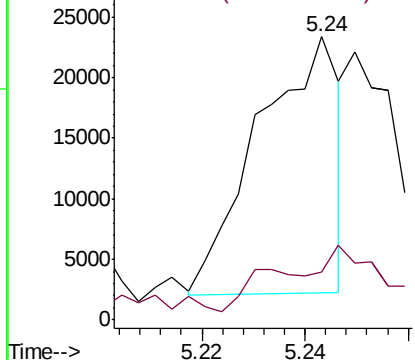
Tgt Ion: 43 Resp: 23107

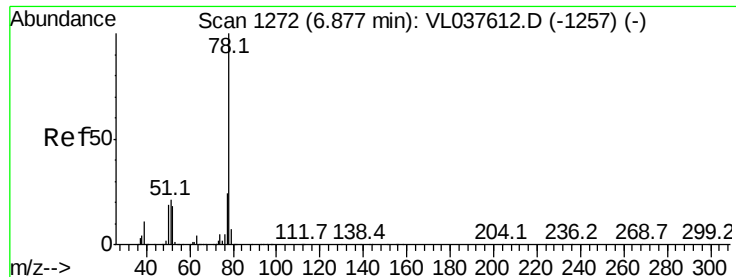
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.4	27.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

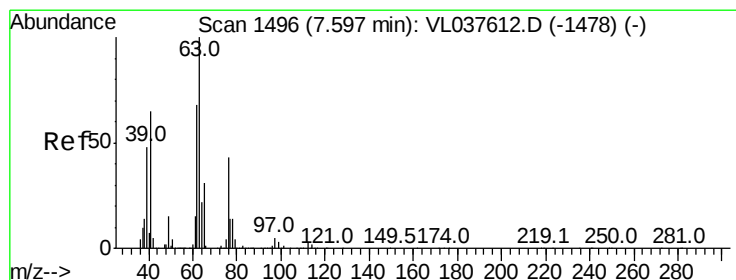
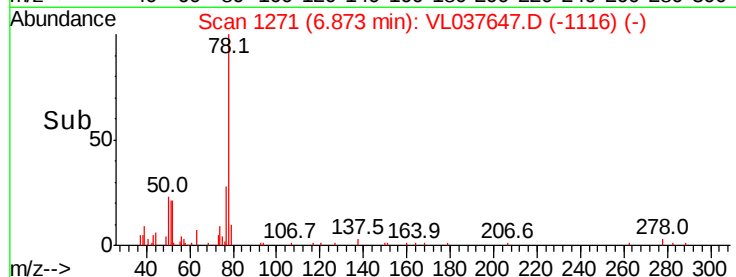
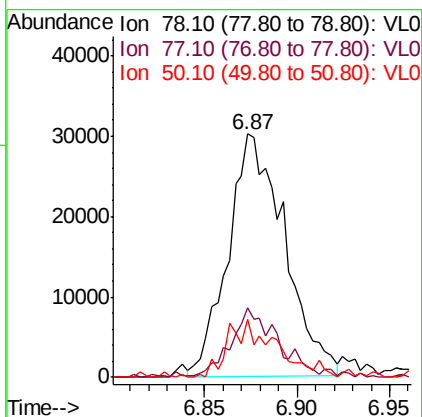
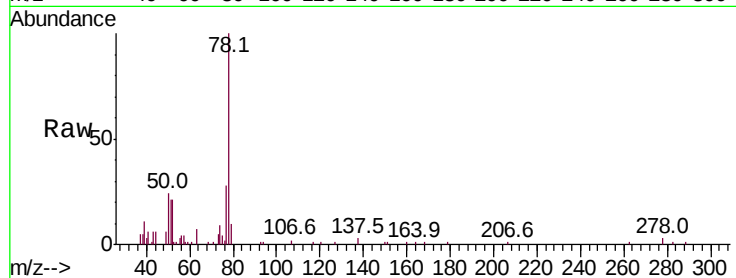




#36
Benzene
Concen: 0.195 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

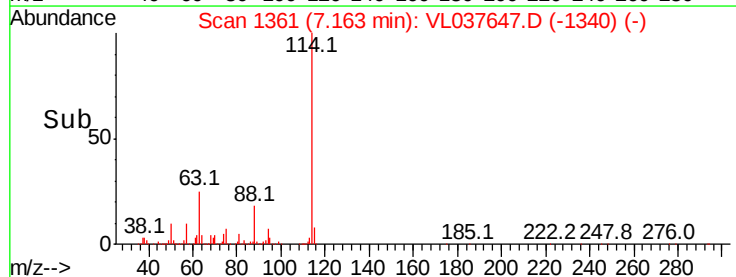
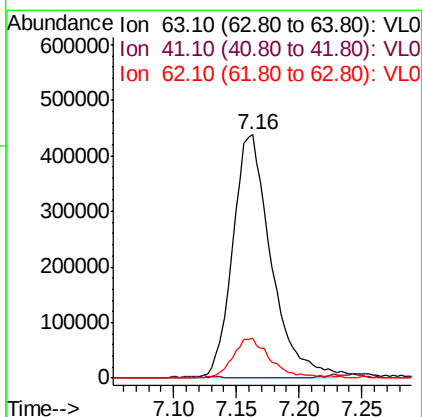
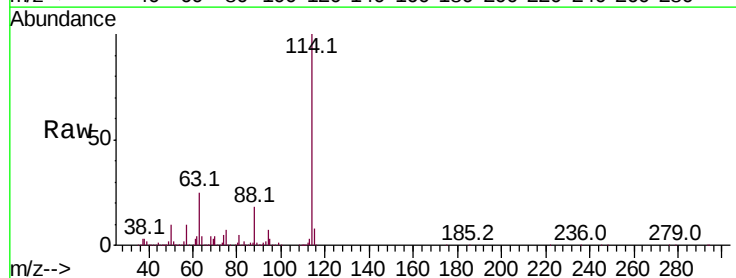
Instrument :
MSVOA_L
ClientSampleId :

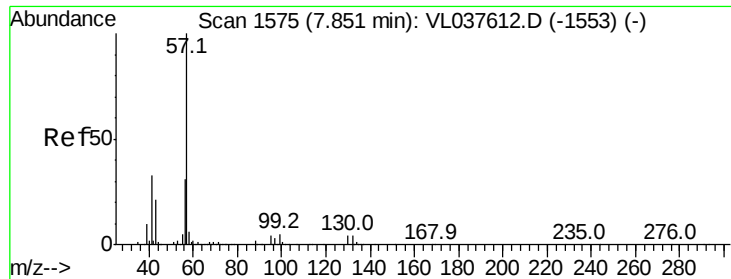
Tot Ion: 78 Resp: 64348
Ion Ratio Lower Upper
78 100
77 28.7 19.0 28.4#
50 24.7 14.8 22.2#



#39
1,2-Dichloropropane
Concen: 7.378 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.43 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

Tgt Ion: 63 Resp: 934252
Ion Ratio Lower Upper
63 100
41 0.0 51.6 77.4#
62 16.7 54.6 81.8#





#44

2,2,4-Trimethylpentane

Concen: 0.067 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL037647.D

Acq: 17 Sep 2021 18:41

Instrument :
MSVOA_L
ClientSampleId :

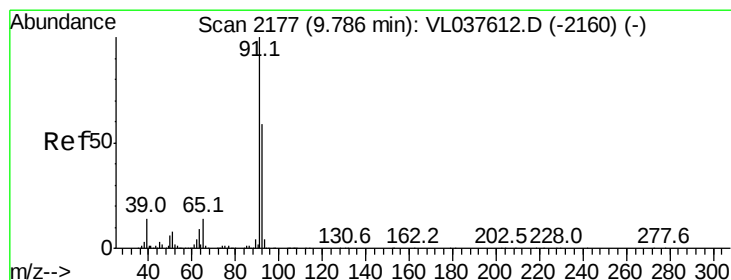
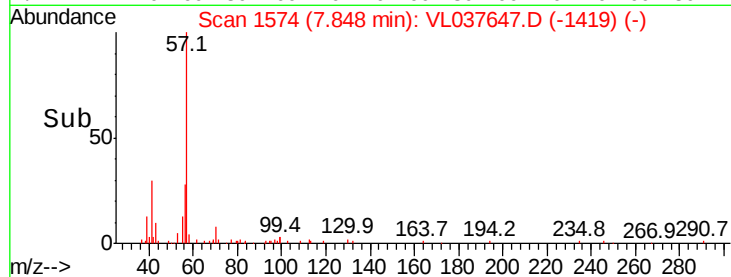
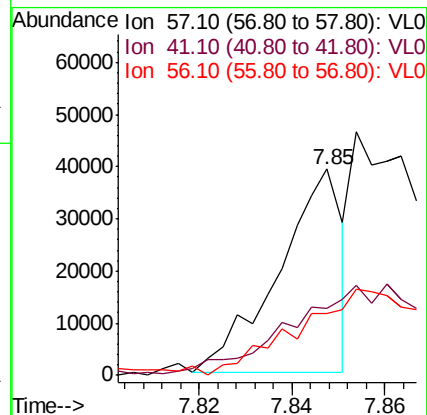
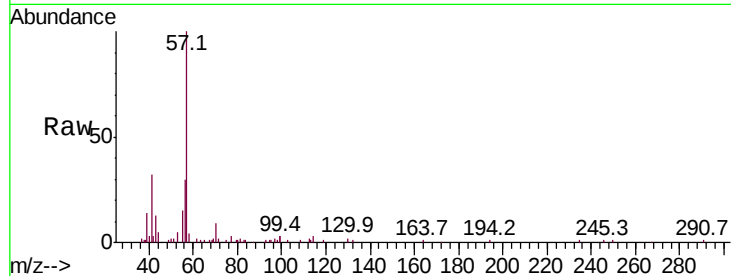
Tot Ion: 57 Resp: 37212

Ion Ratio Lower Upper

57 100

41 0.0 26.1 39.1#

56 0.0 25.7 38.5#



#53

Toluene

Concen: 0.415 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL037647.D

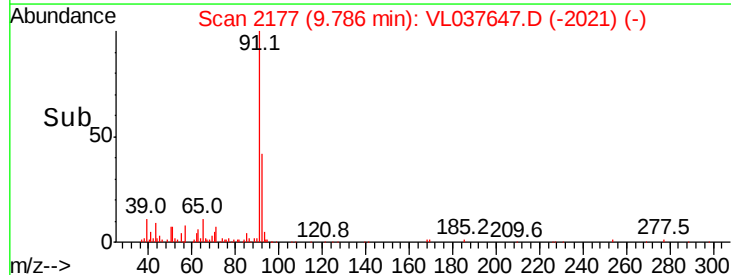
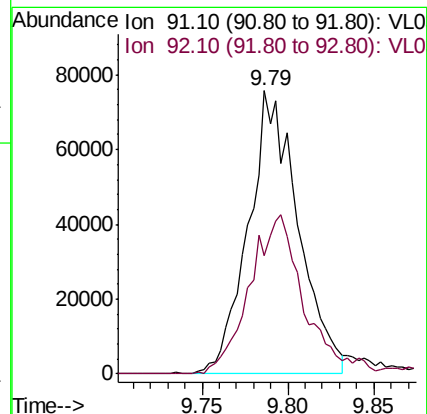
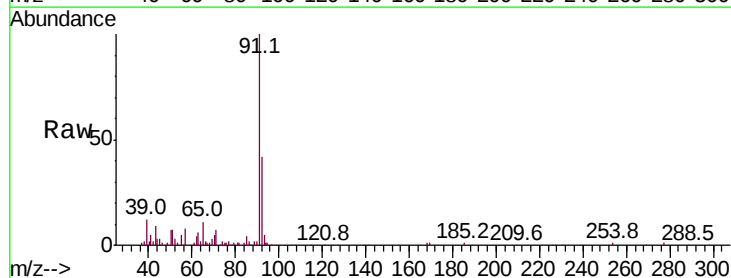
Acq: 17 Sep 2021 18:41

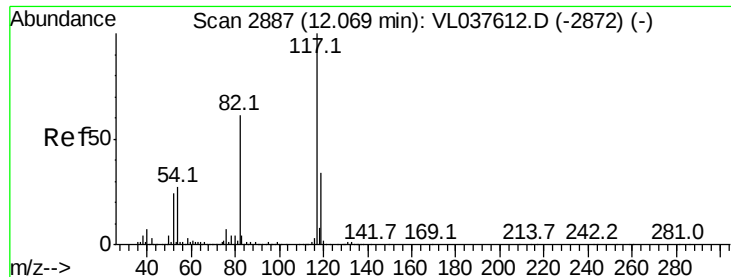
Tgt Ion: 91 Resp: 152454

Ion Ratio Lower Upper

91 100

92 63.0 48.9 73.3

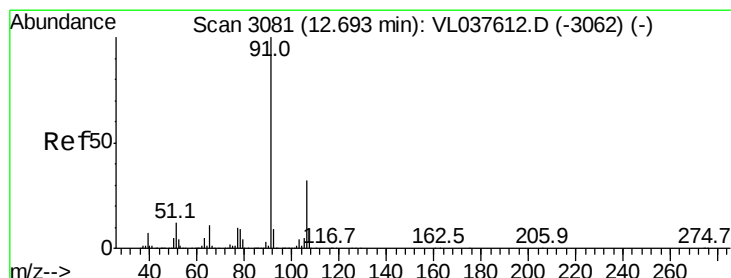
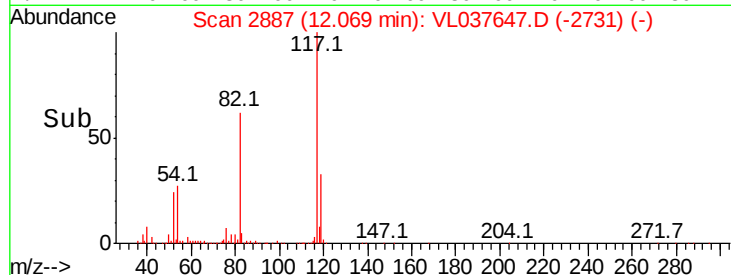
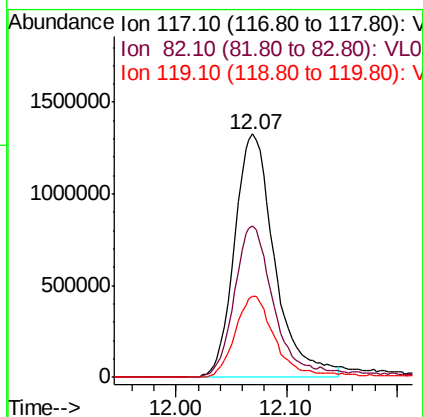
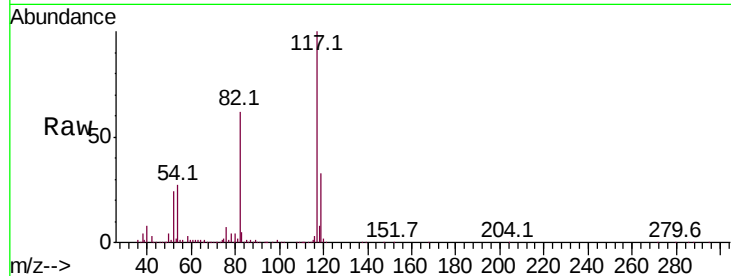




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2887
Delta R.T. 0.00 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

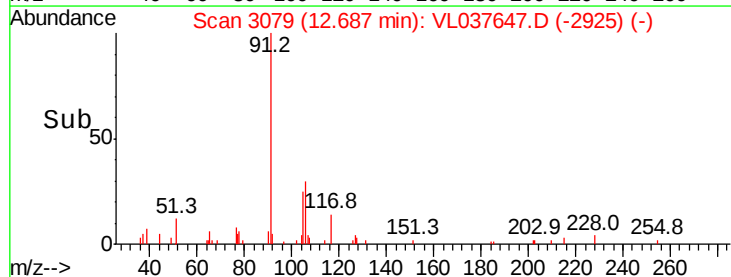
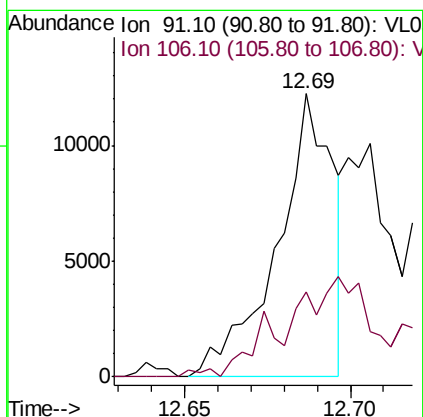
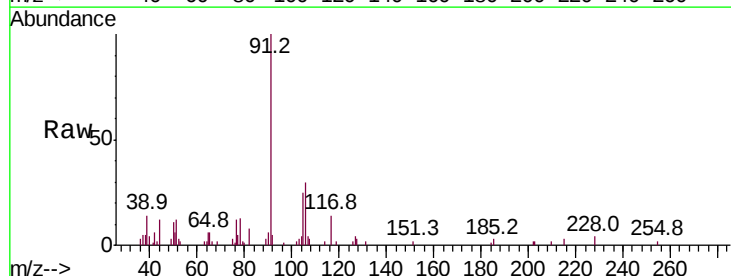
Instrument :
MSVOA_L
ClientSampleId :

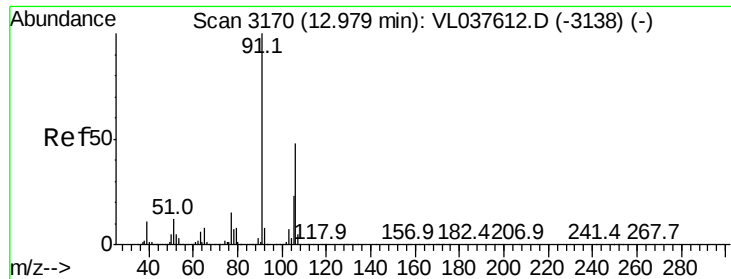
Tot Ion:117 Resp: 3346000
Ion Ratio Lower Upper
117 100
82 65.5 50.6 75.8
119 35.0 26.2 39.2



#58
Ethyl Benzene
Concen: 0.032 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.01 min
Lab File: VL037647.D
Acq: 17 Sep 2021 18:41

Tgt Ion: 91 Resp: 14347
Ion Ratio Lower Upper
91 100
106 31.4 25.3 37.9





#59

m/p-Xylene

Concen: 0.054 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.01 min

Lab File: VL037647.D

Acq: 17 Sep 2021 18:41

Instrument :

MSVOA_L

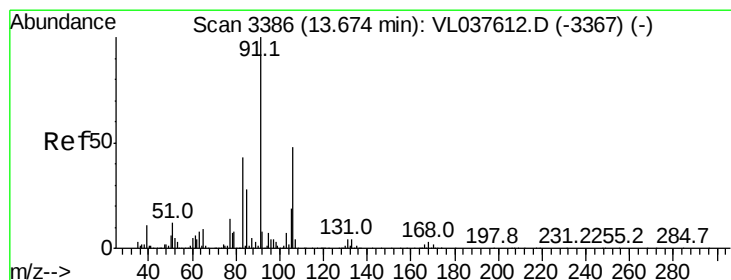
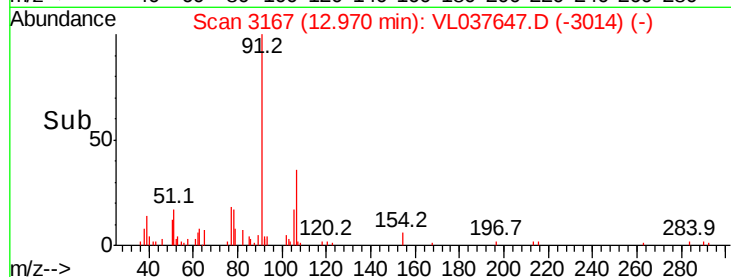
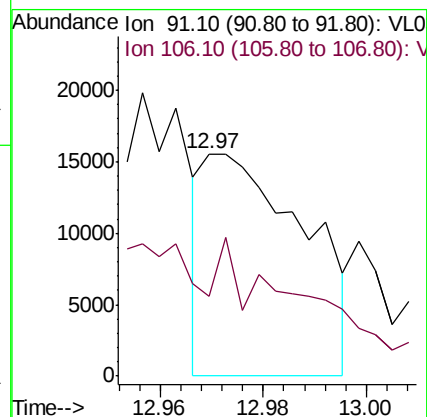
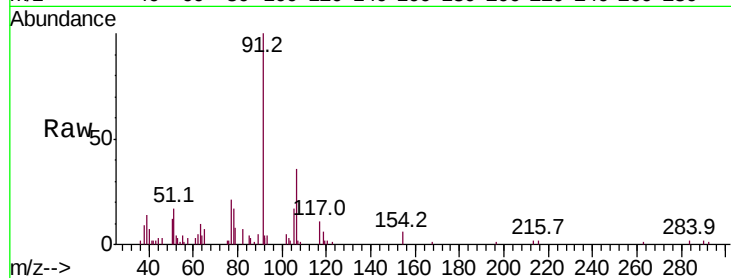
ClientSampled :

Tot Ion: 91 Resp: 21092

Ion Ratio Lower Upper

91 100

106 173.3 36.6 55.0#



#60

o-Xylene

Concen: 0.037 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.01 min

Lab File: VL037647.D

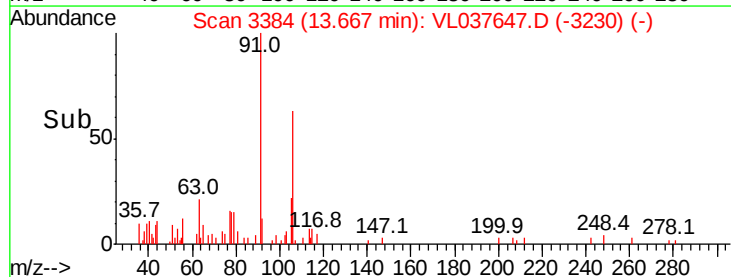
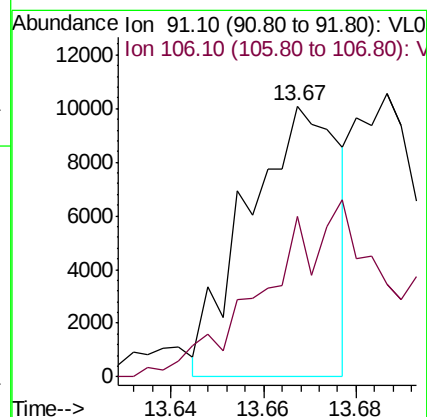
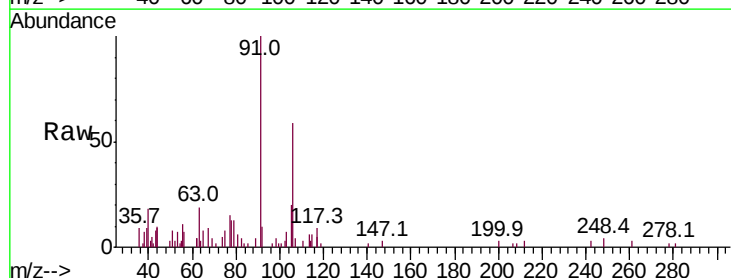
Acq: 17 Sep 2021 18:41

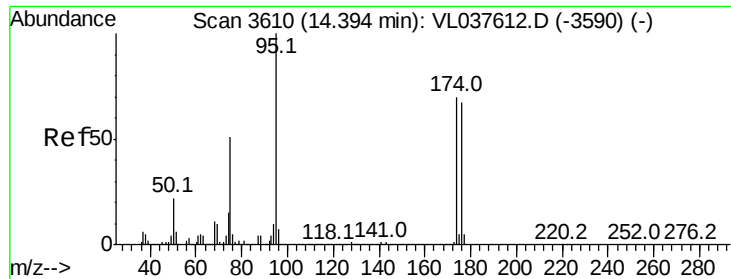
Tgt Ion: 91 Resp: 13754

Ion Ratio Lower Upper

91 100

106 0.0 23.0 69.0#

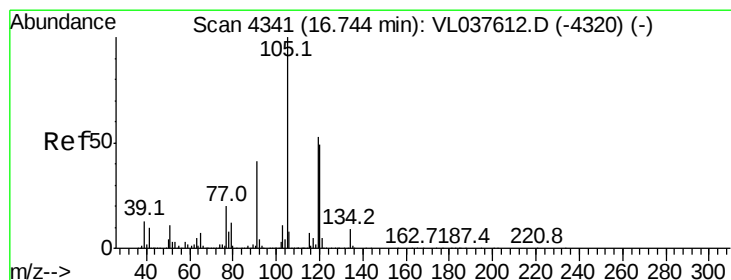
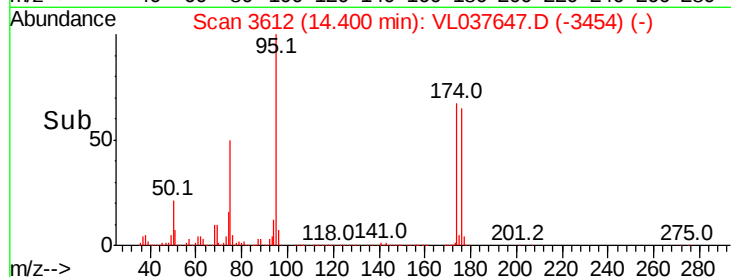
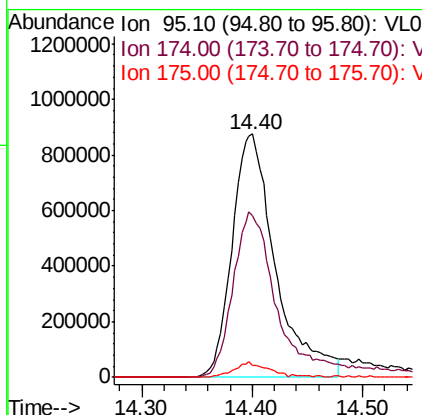
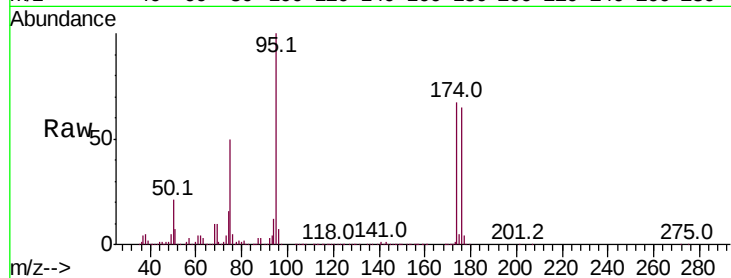




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.860 ppbv
 RT: 14.40 min Scan# 3612
 Delta R.T. 0.01 min
 Lab File: VL037647.D
 Acq: 17 Sep 2021 18:41

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion: 95 Resp: 2384416
 Ion Ratio Lower Upper
 95 100
 174 75.1 56.3 84.5
 175 5.1 4.4 6.6



#74
 1,2,4-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 16.74 min Scan# 4340
 Delta R.T. -0.00 min
 Lab File: VL037647.D
 Acq: 17 Sep 2021 18:41

Tgt Ion: 105 Resp: 13944
 Ion Ratio Lower Upper
 105 100
 120 23.0 39.4 59.0#
 91 19.1 33.3 49.9#
 77 4.9 15.7 23.5#

