

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081321\
 Data File : VL037447.D
 Acq On : 13 Aug 2021 14:00
 Operator : SY/AP
 Sample : M1458-14 0.03 LOQ
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 16 02:34:18 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081221AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 01:37:35 2021
 QLast Update : Fri Aug 13 01:37:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1233959	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3755620	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3263327	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2301753	9.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.19	85	9759	0.052	ppbv 100
3) Chlorodifluoromethane	2.99	51	11448	0.047	ppbv 94
4) Chloromethane	3.14	50	4076	0.047	ppbv # 68
5) Vinyl Chloride	3.25	62	2412	0.025	ppbv # 43
6) Bromomethane	3.47	94	1225	0.025	ppbv # 47
7) Chloroethane	3.56	64	495	0.016	ppbv # 40
8) Dichlorotetrafluoroethane	3.19	85	9759	0.046	ppbv 95
9) Propene	3.01	41	5752	0.071	ppbv # 48
10) Heptane	8.12	43	1741	0.009	ppbv # 27
11) Trichlorofluoromethane	3.95	101	6979	0.034	ppbv # 73
12) 1,1,2-Trichlorotrifluoroet	4.49	101	810	0.006	ppbv # 1
13) Ethanol	3.62	45	157	0.018	ppbv # 1
14) Bromoethene	3.74	108	1632	0.026	ppbv # 1
15) Acetone	3.84	43	324	0.002	ppbv # 44
16) 1,3-Butadiene	3.32	39	2621	0.030	ppbv # 11
17) tert-Butyl alcohol	4.34	59	818	0.007	ppbv # 72
18) 1,1-Dichloroethene	4.29	96	2012	0.030	ppbv # 1
19) Isopropyl Alcohol	3.99	45	74	0.001	ppbv # 92
20) Methylene Chloride	4.34	84	3128	0.045	ppbv # 44
21) Allyl Chloride	4.41	41	3184	0.031	ppbv # 43
22) trans-1,2-Dichloroethene	4.88	96	710	0.011	ppbv # 54
23) Vinyl Acetate	5.06	43	430	0.002	ppbv # 1
24) 1,1-Dichloroethane	5.02	63	2632	0.017	ppbv # 86
25) Ethyl Acetate	5.67	43	954	0.003	ppbv # 1
26) Hexane	5.69	57	4780	0.030	ppbv # 43
27) Carbon Disulfide	4.54	76	1536	0.011	ppbv # 64
28) Methyl tert-Butyl Ether	5.04	73	499	0.003	ppbv # 52
29) Chloroform	5.75	83	3661	0.016	ppbv 97
30) Cyclohexane	7.13	84	759	0.006	ppbv # 1
31) cis-1,2-Dichloroethene	5.55	61	3597	0.026	ppbv # 50
32) 1,1,1-Trichloroethane	6.51	97	1876	0.008	ppbv # 22
34) 2-Butanone	5.25	43	1376	0.009	ppbv # 54
35) Carbon Tetrachloride	7.01	117	2501	0.011	ppbv # 53
36) Benzene	6.90	78	1651	0.005	ppbv # 81
37) 1,2-Dichloroethane	6.30	62	1572	0.010	ppbv # 35
38) Trichloroethene	7.83	130	1312	0.009	ppbv # 61
39) 1,2-Dichloropropane	7.17	63	877087	7.271	ppbv # 26
40) 1,4-Dioxane	7.83	88	296	0.010	ppbv # 100
41) Tetrahydrofuran	6.09	42	412	0.006	ppbv # 1
42) Bromodichloromethane	7.78	83	3817	0.017	ppbv # 67
43) Methyl Methacrylate	8.01	69	417	0.004	ppbv # 1

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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 01:37:35 2021
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 Response via : Initial Calibration

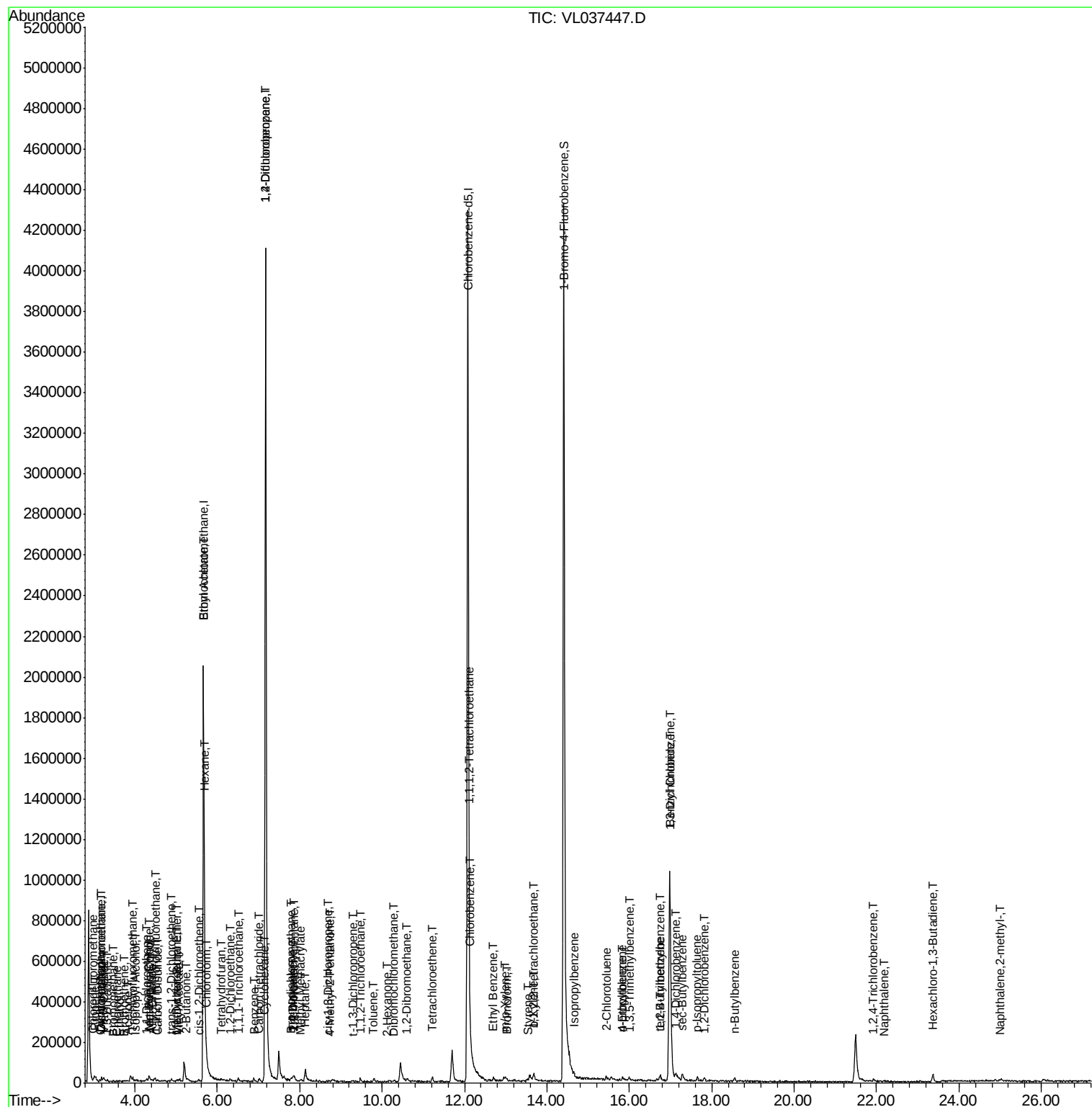
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	7239	0.014	ppbv #	42
45) t-1,3-Dichloropropene	9.29	75	766	0.010	ppbv	92
46) cis-1,3-Dichloropropene	8.69	75	1447	0.013	ppbv #	71
47) 1,1,2-Trichloroethane	9.47	97	2440	0.019	ppbv #	31
48) Dibromochloromethane	10.27	129	169	0.001	ppbv	90
49) Bromoform	13.03	173	968	0.007	ppbv #	1
50) 4-Methyl-2-Pentanone	8.75	43	39	0.000	ppbv #	38
51) 2-Hexanone	10.13	43	135	0.001	ppbv #	28
52) Tetrachloroethene	11.22	164	864	0.006	ppbv #	49
53) Toluene	9.80	91	5004	0.014	ppbv #	20
54) 1,2-Dibromoethane	10.60	107	1181	0.007	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.12	131	1494	0.012	ppbv #	1
57) Chlorobenzene	12.13	112	1908	0.007	ppbv #	62
58) Ethyl Benzene	12.71	91	7263	0.016	ppbv	98
59) m/p-Xylene	12.98	91	2786	0.007	ppbv #	1
60) o-Xylene	13.68	91	6606	0.018	ppbv #	29
61) Styrene	13.53	104	1152	0.006	ppbv #	1
62) Isopropylbenzene	14.65	105	3951	0.008	ppbv #	48
63) 1,1,2,2-Tetrachloroethane	13.66	83	2135	0.008	ppbv #	24
64) n-propylbenzene	15.82	120	100	0.001	ppbv	73
65) tert-Butylbenzene	16.73	119	2220	0.005	ppbv #	1
66) Benzyl Chloride	16.99	91	556	0.026	ppbv #	65
67) sec-Butylbenzene	17.28	105	3544	0.006	ppbv #	58
69) p-Isopropyltoluene	17.64	119	2121	0.004	ppbv #	48
70) n-Butylbenzene	18.54	91	3012	0.006	ppbv #	29
71) 2-Chlorotoluene	15.44	91	10324	0.028	ppbv	98
72) 4-Ethyltoluene	15.83	105	3908	0.009	ppbv #	54
73) 1,3,5-Trimethylbenzene	15.99	105	1726	0.004	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.76	105	3078	0.008	ppbv #	69
75) 1,3-Dichlorobenzene	16.99	146	3268	0.013	ppbv #	1
76) 1,4-Dichlorobenzene	17.13	146	1389	0.006	ppbv #	1
77) 1,2-Dichlorobenzene	17.81	146	1763	0.007	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.36	225	2973	0.015	ppbv #	18
79) Naphthalene	22.18	128	1008	0.005	ppbv #	69
80) Naphthalene, 2-methyl-	24.99	142	54	0.001	ppbv #	1
81) 1,2,4-Trichlorobenzene	21.92	180	373	0.002	ppbv #	11

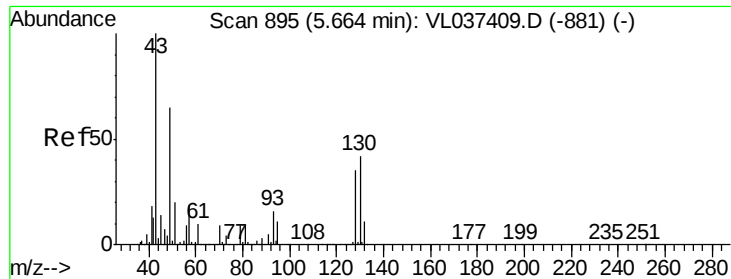
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :
MSVOA_L
ClientSampleId :

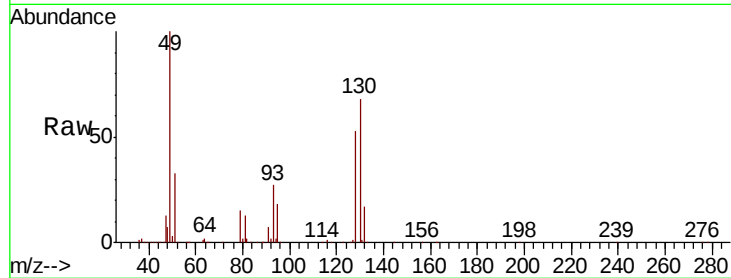
Tot Ion: 49 Resp: 1233959

Ion Ratio Lower Upper

49 100

128 54.7 27.9 83.6

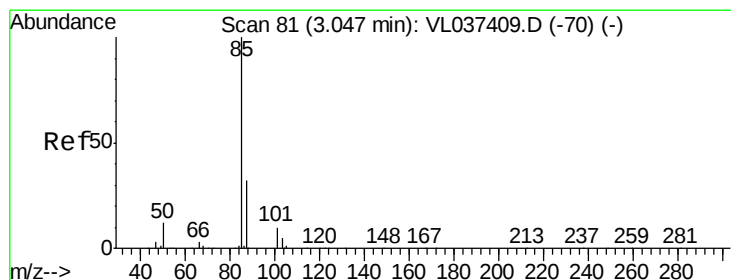
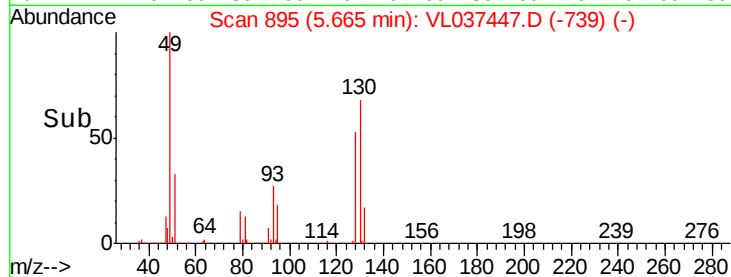
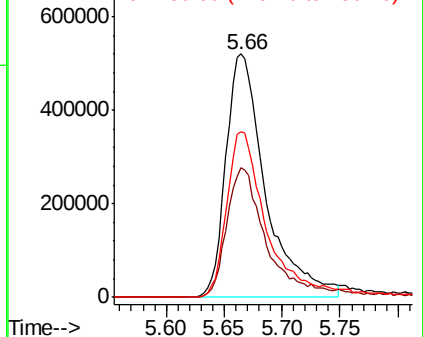
130 71.0 34.6 103.8



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: 0.052 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.14 min

Lab File: VL037447.D

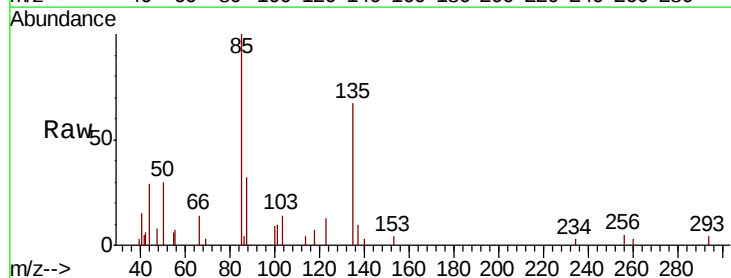
Acq: 13 Aug 2021 14:00

Tgt Ion: 85 Resp: 9759

Ion Ratio Lower Upper

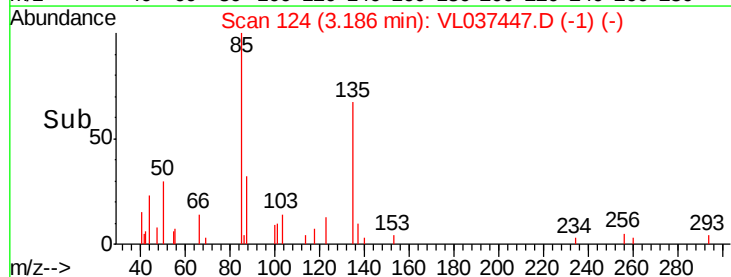
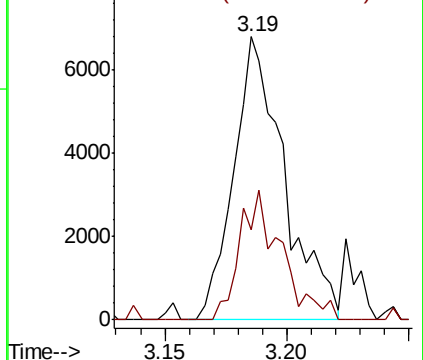
85 100

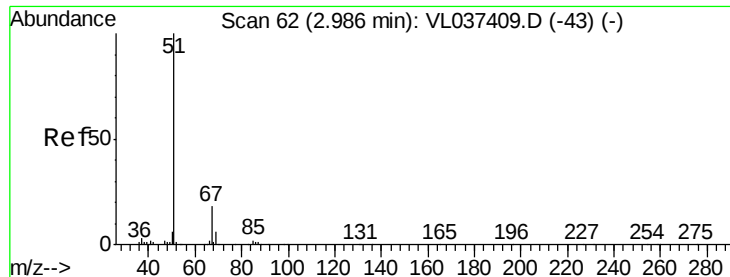
87 32.0 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.047 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

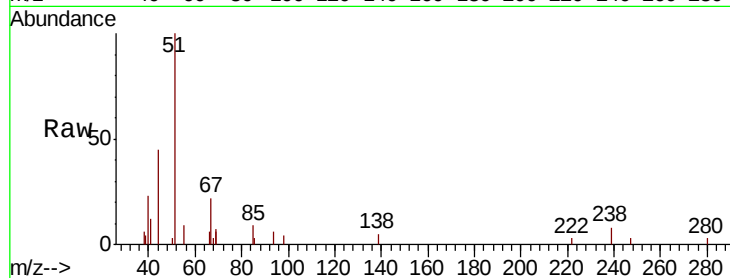
ClientSampleId :

Tot Ion: 51 Resp: 11448

Ion Ratio Lower Upper

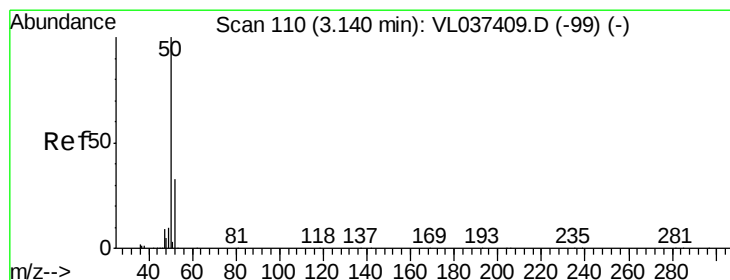
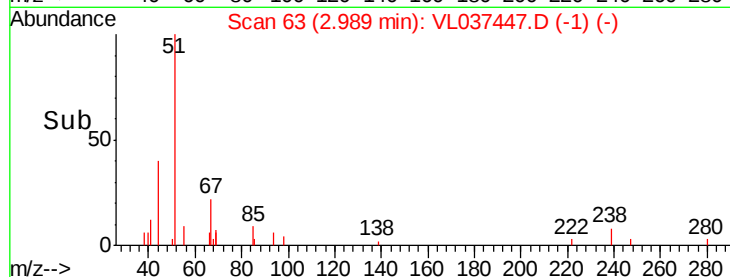
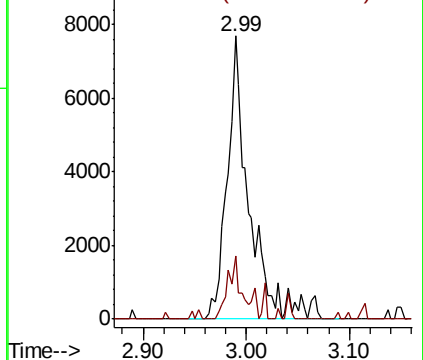
51 100

67 15.8 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.047 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037447.D

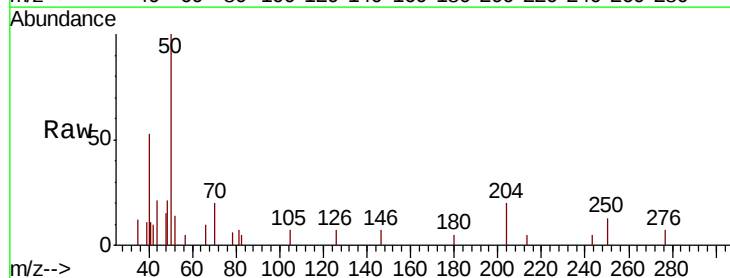
Acq: 13 Aug 2021 14:00

Tgt Ion: 50 Resp: 4076

Ion Ratio Lower Upper

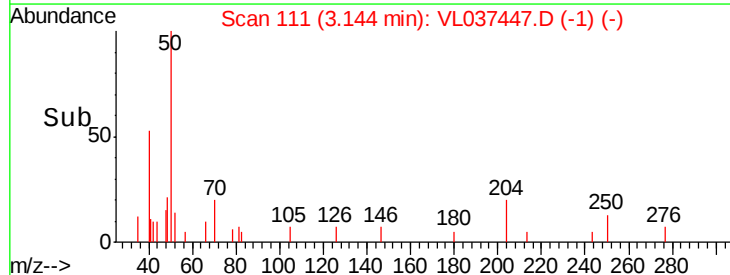
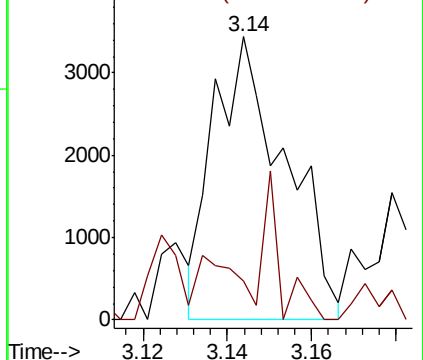
50 100

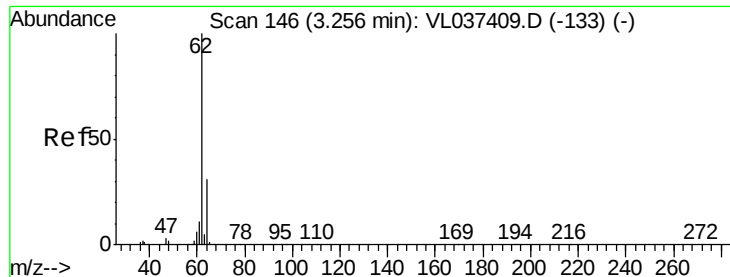
52 14.5 26.2 39.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.025 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

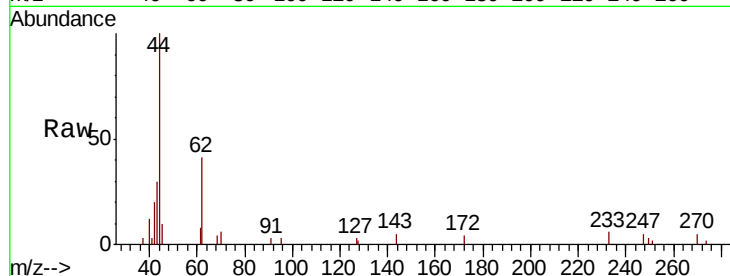
ClientSampled :

Tot Ion: 62 Resp: 2412

Ion Ratio Lower Upper

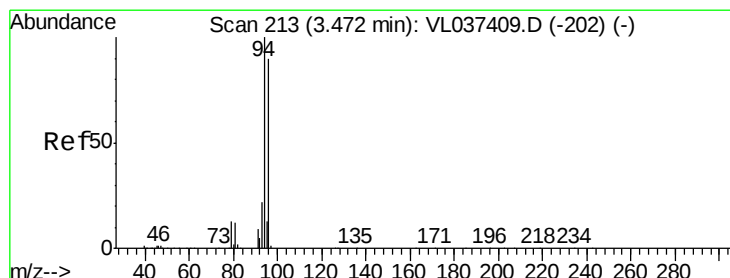
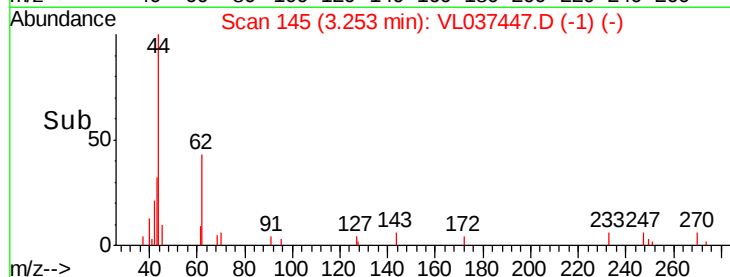
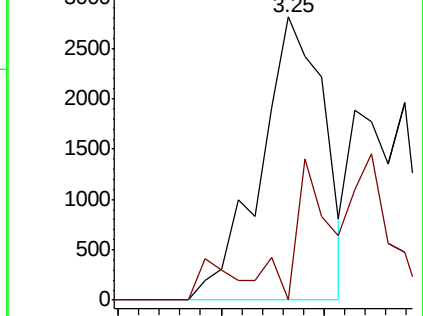
62 100

64 0.0 25.0 37.6#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.025 ppbv

RT: 3.47 min Scan# 214

Delta R.T. 0.00 min

Lab File: VL037447.D

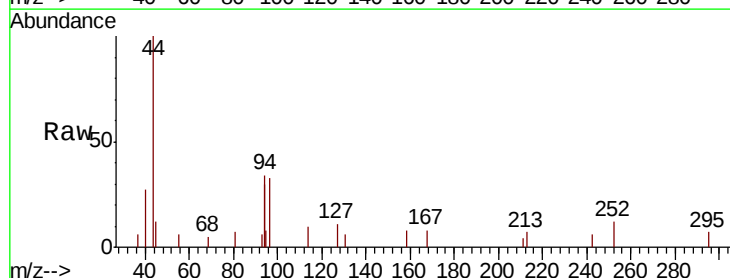
Acq: 13 Aug 2021 14:00

Tgt Ion: 94 Resp: 1225

Ion Ratio Lower Upper

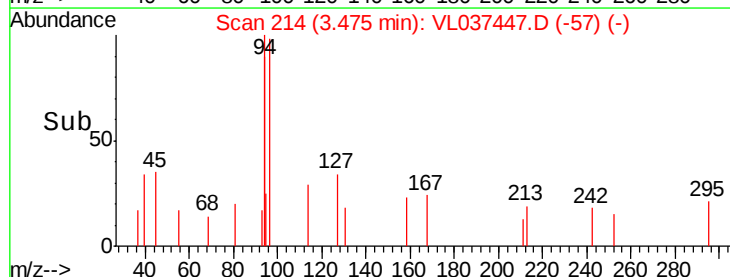
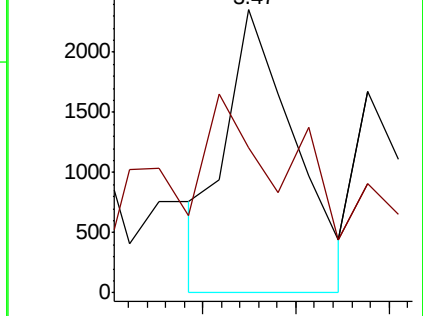
94 100

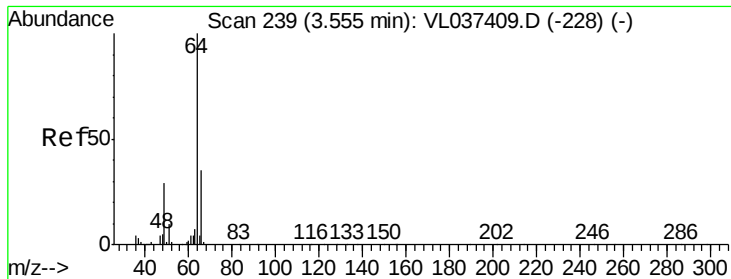
96 40.1 72.2 108.4#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.016 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

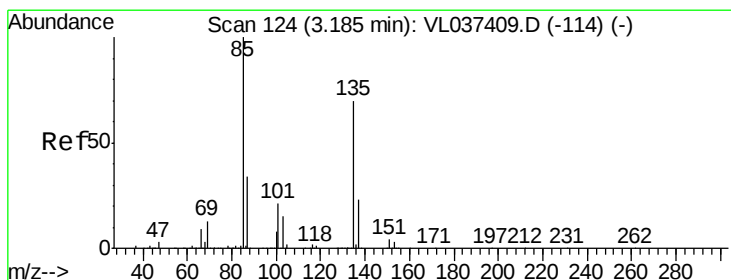
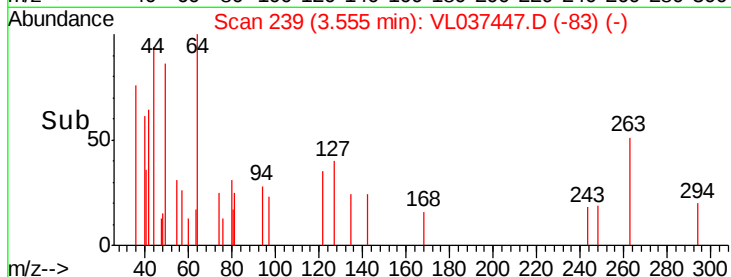
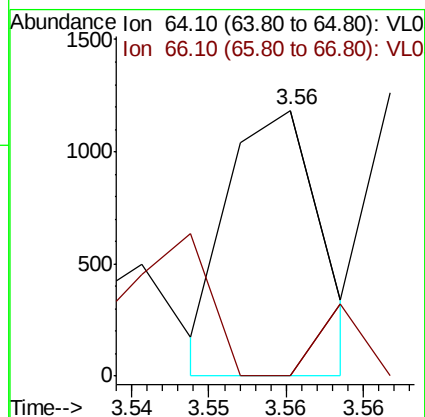
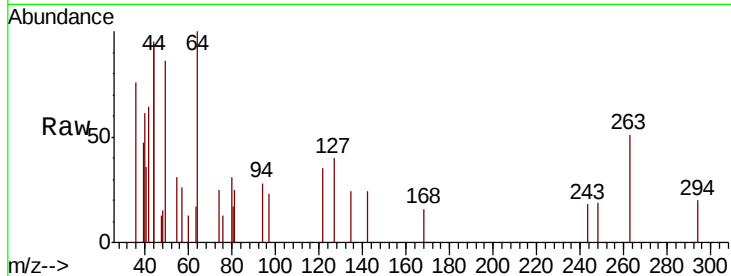
ClientSampleId :

Tot Ion: 64 Resp: 495

Ion Ratio Lower Upper

64 100

66 0.0 27.8 41.8#



#8

Dichlorotetrafluoroethane

Concen: 0.046 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL037447.D

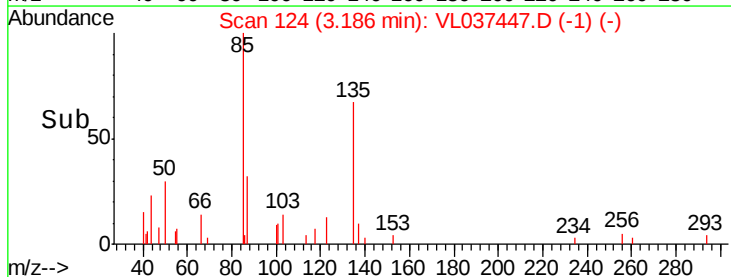
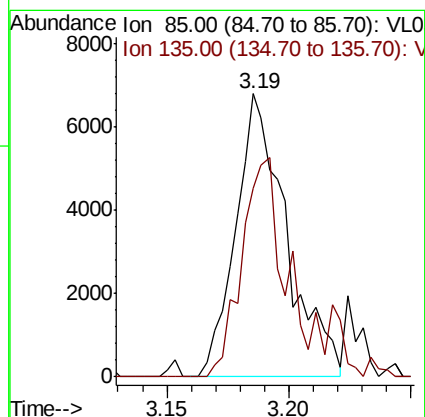
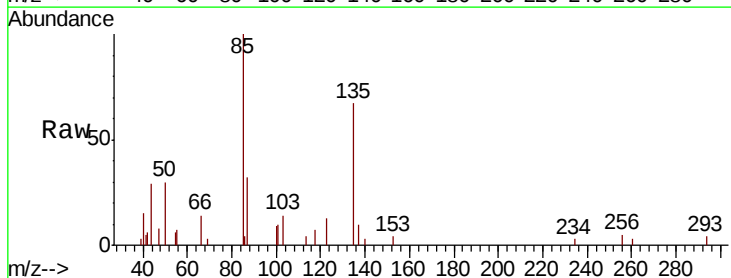
Acq: 13 Aug 2021 14:00

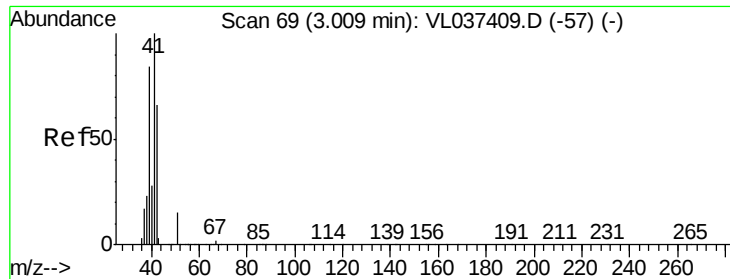
Tgt Ion: 85 Resp: 9759

Ion Ratio Lower Upper

85 100

135 77.1 58.6 88.0

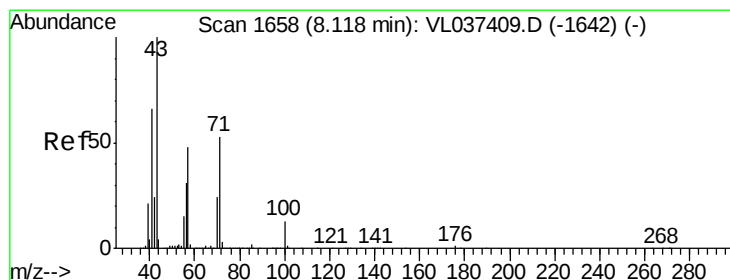
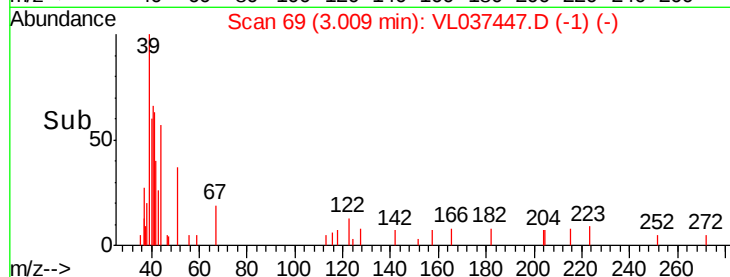
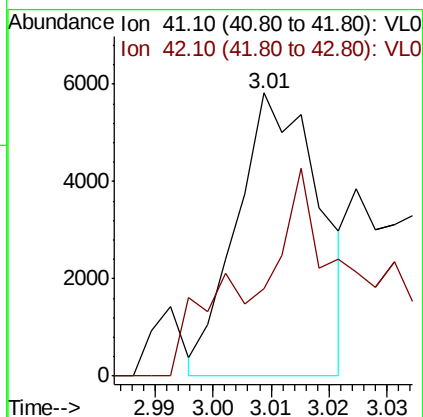
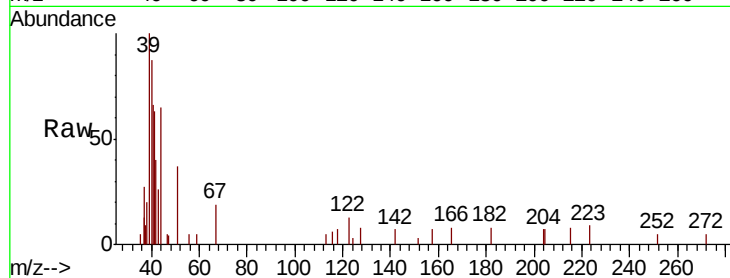




#9
 Propene
 Concen: 0.071 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

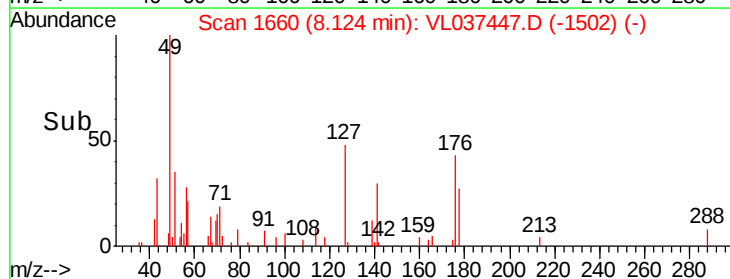
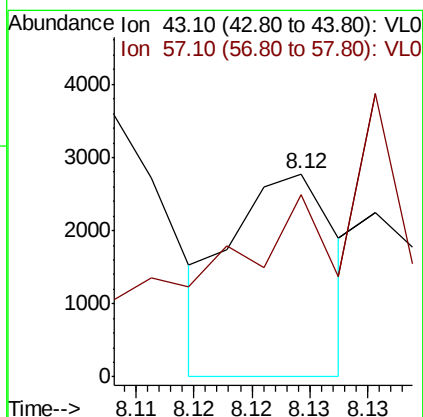
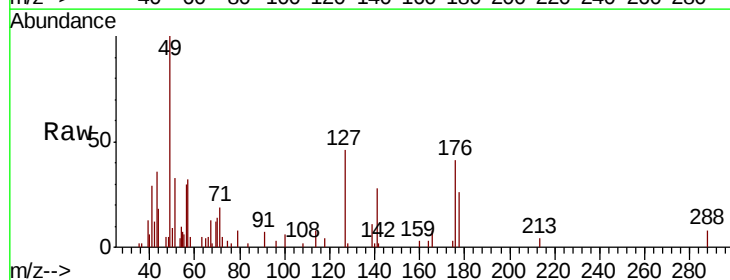
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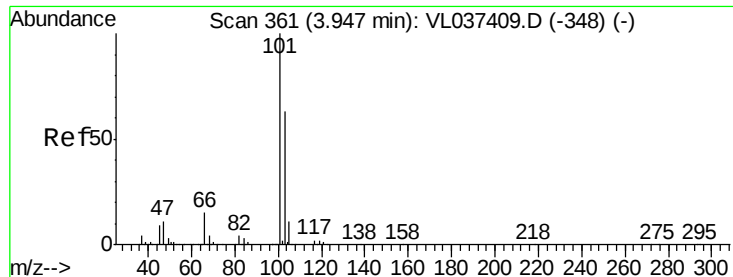
Tot Ion: 41 Resp: 5752
 Ion Ratio Lower Upper
 41 100
 42 109.2 53.8 80.8#



#10
 Heptane
 Concen: 0.009 ppbv
 RT: 8.12 min Scan# 1660
 Delta R.T. 0.01 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Tgt Ion: 43 Resp: 1741
 Ion Ratio Lower Upper
 43 100
 57 0.0 40.3 60.5#





#11

Trichlorofluoromethane

Concen: 0.034 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

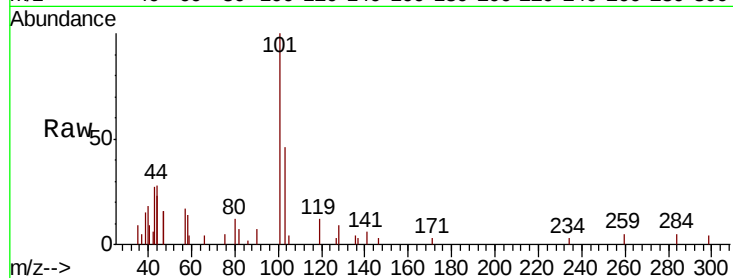
ClientSampleId :

Tot Ion:101 Resp: 6979

Ion Ratio Lower Upper

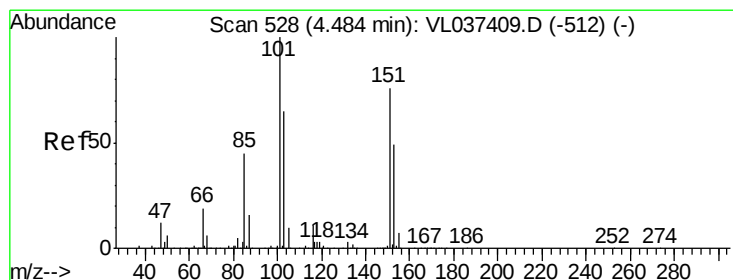
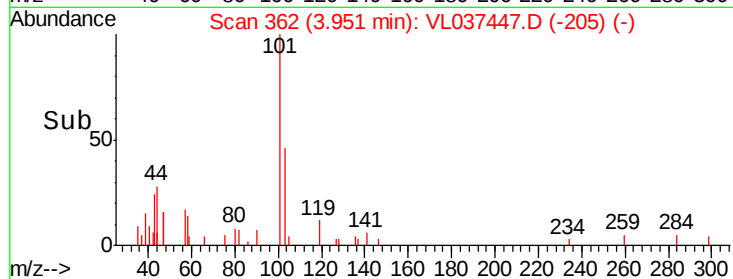
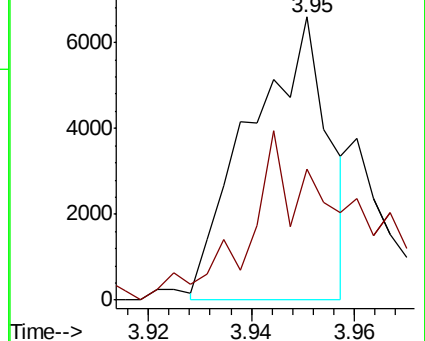
101 100

103 41.7 50.2 75.4#



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: 0.006 ppbv

RT: 4.49 min Scan# 529

Delta R.T. 0.00 min

Lab File: VL037447.D

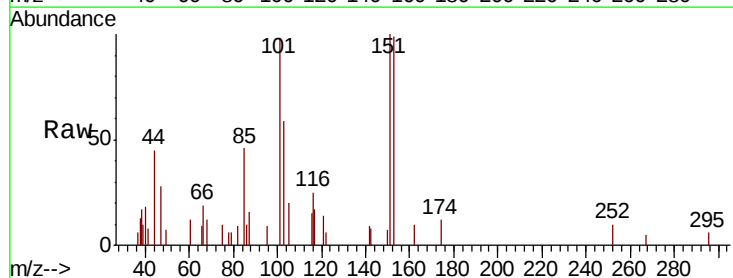
Acq: 13 Aug 2021 14:00

Tgt Ion:101 Resp: 810

Ion Ratio Lower Upper

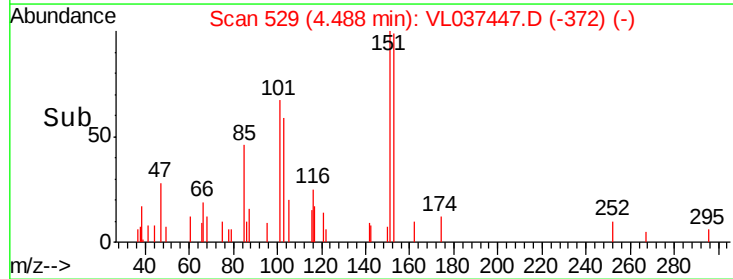
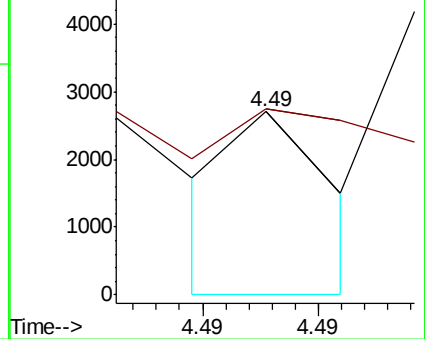
101 100

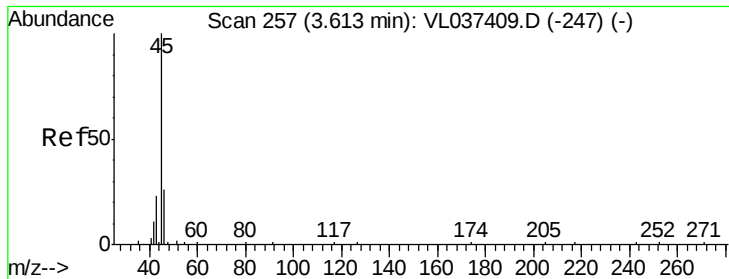
151 628.5 61.2 91.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

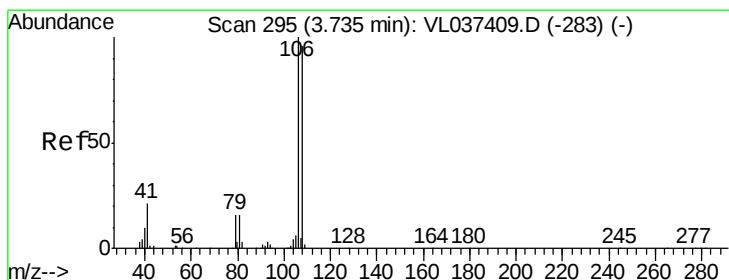
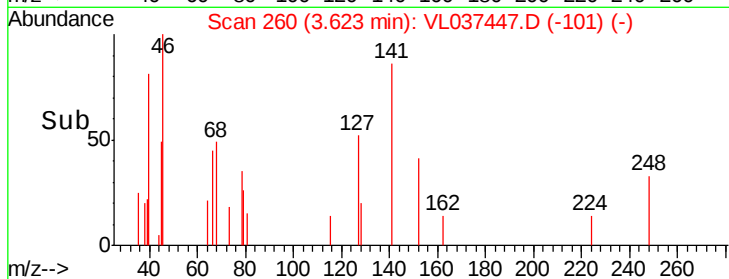
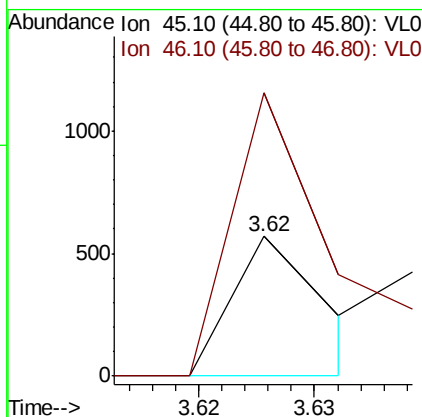
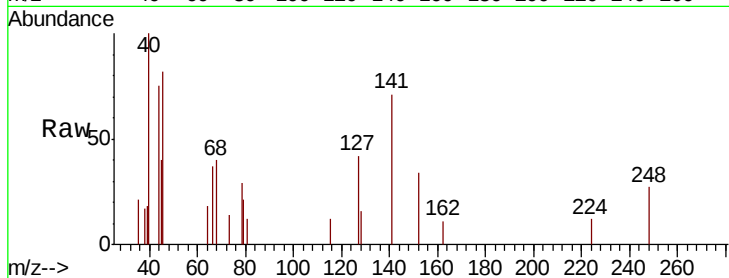




#13
Ethanol
Concen: 0.018 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.01 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

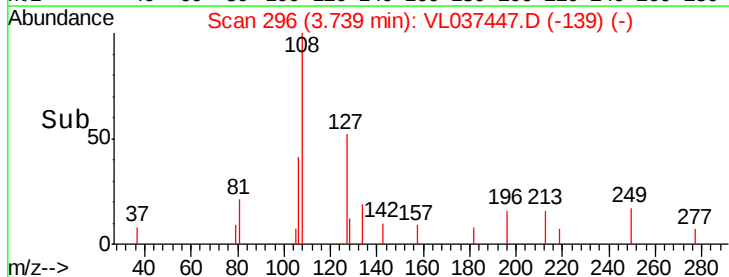
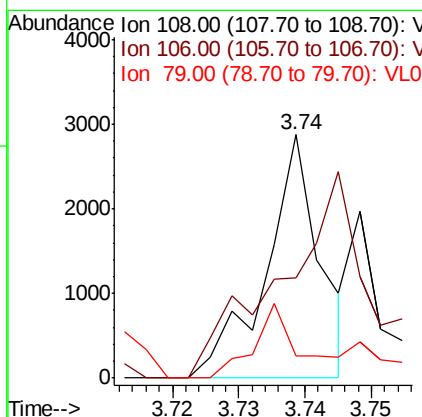
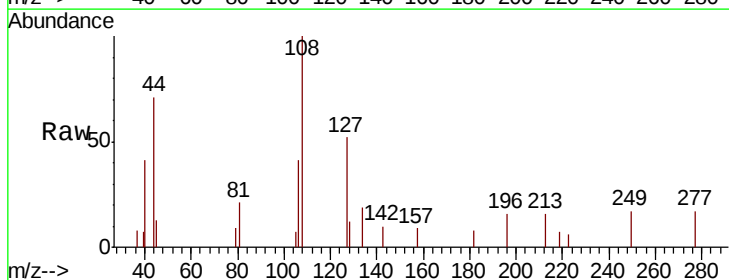
Instrument :
MSVOA_L
ClientSampleId :

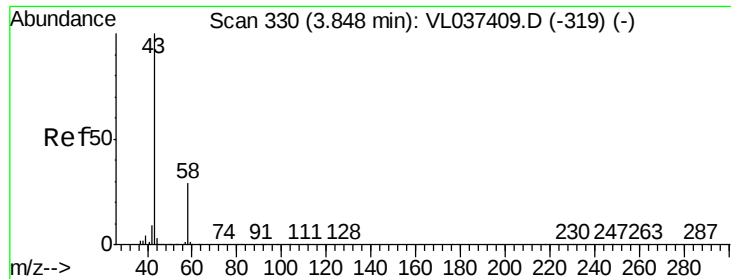
Tot Ion: 45 Resp: 157
Ion Ratio Lower Upper
45 100
46 654.8 18.0 72.2#



#14
Bromoethene
Concen: 0.026 ppbv
RT: 3.74 min Scan# 296
Delta R.T. 0.00 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

Tgt Ion: 108 Resp: 1632
Ion Ratio Lower Upper
108 100
106 0.0 87.5 131.3#
79 61.4 13.5 20.3#





#15

Acetone

Concen: 0.002 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

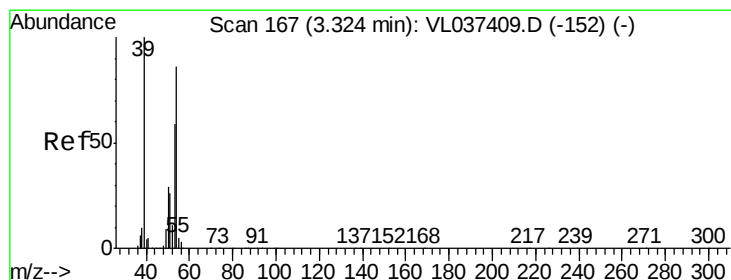
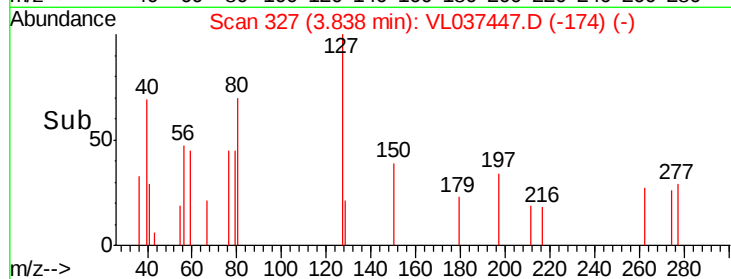
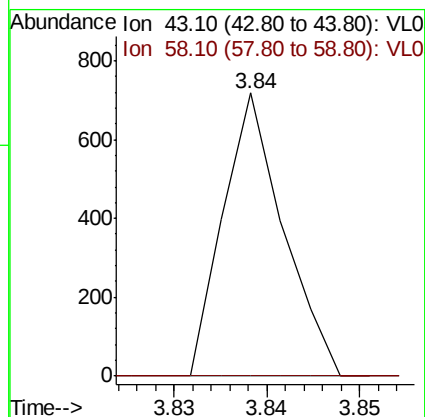
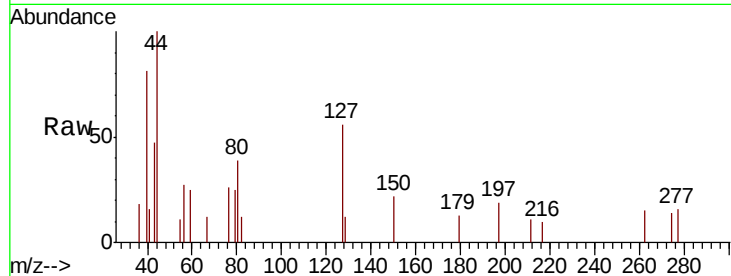
ClientSampleId :

Tot Ion: 43 Resp: 324

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#16

1,3-Butadiene

Concen: 0.030 ppbv

RT: 3.32 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL037447.D

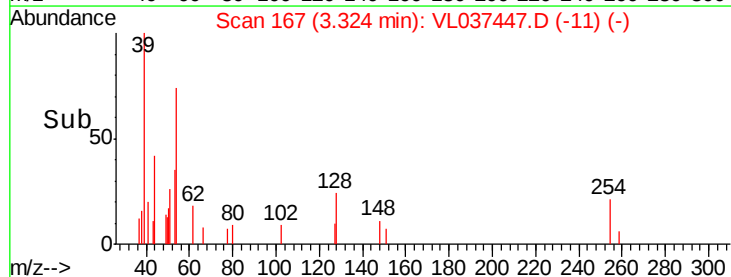
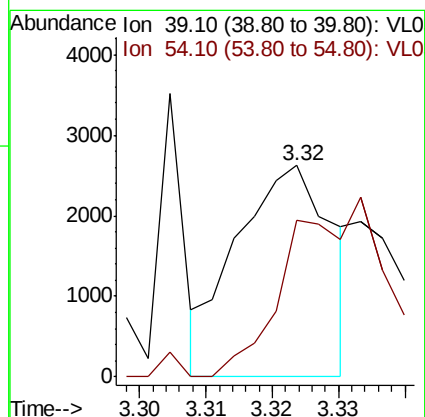
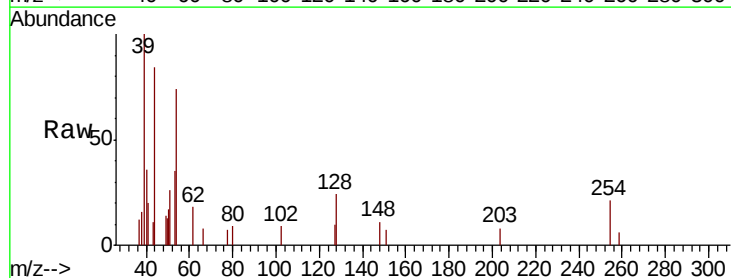
Acq: 13 Aug 2021 14:00

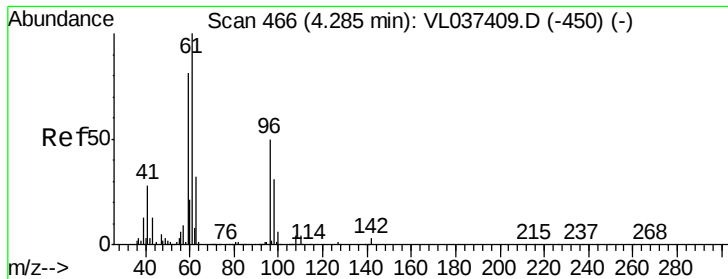
Tgt Ion: 39 Resp: 2621

Ion Ratio Lower Upper

39 100

54 0.0 61.4 92.0#



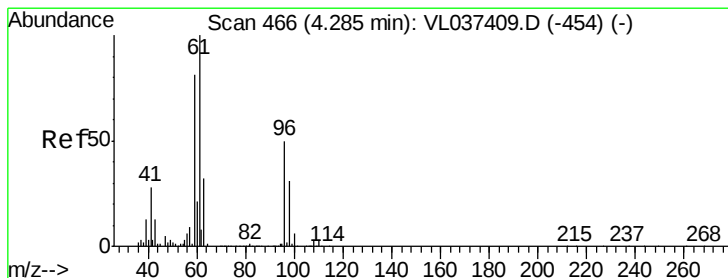
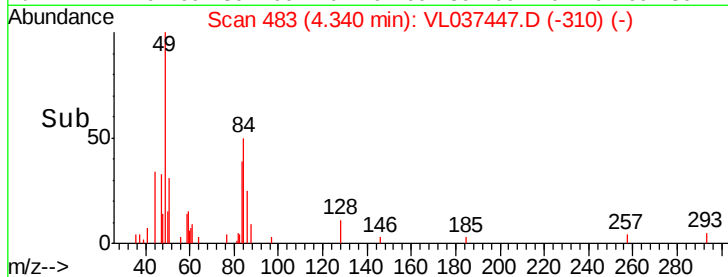
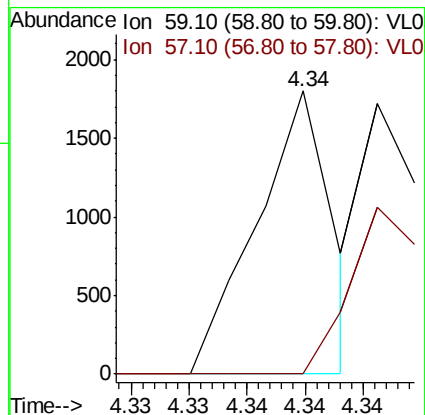
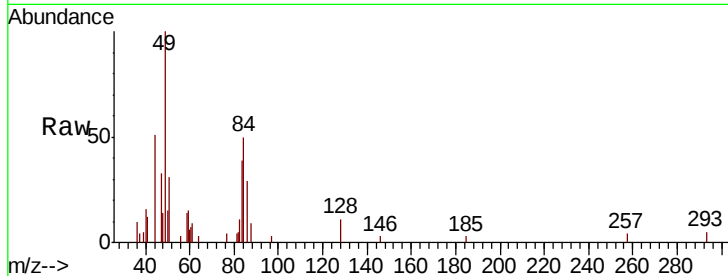


#17

tert-Butyl alcohol
 Concen: 0.007 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. 0.05 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Instrument :
 MSVOA_L
 ClientSampled :

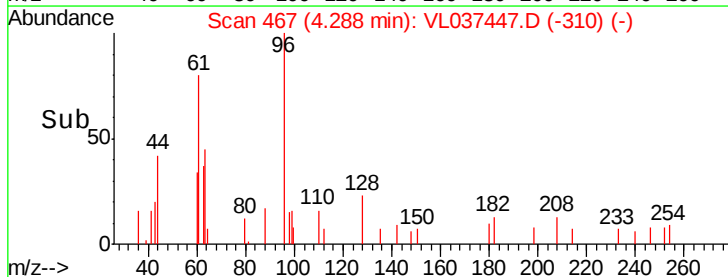
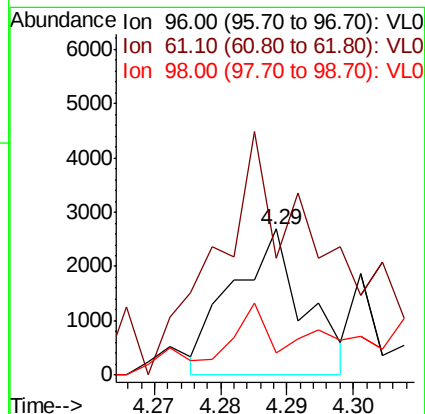
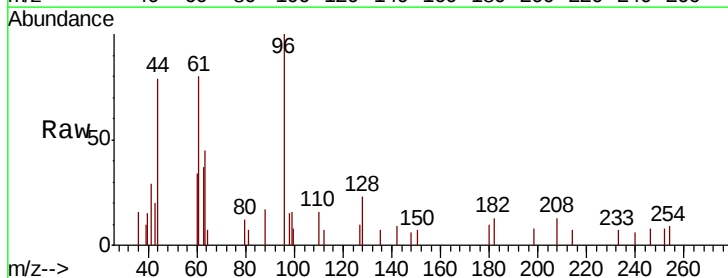
Tot Ion: 59 Resp: 818
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

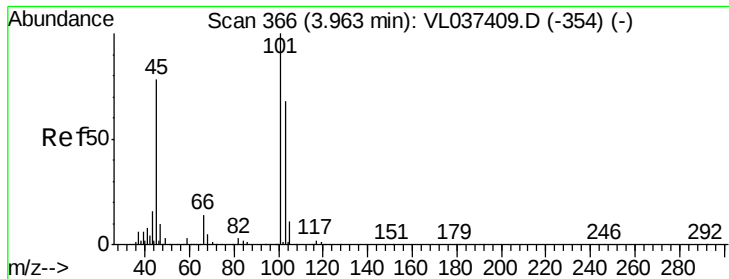


#18

1,1-Dichloroethene
 Concen: 0.030 ppbv
 RT: 4.29 min Scan# 467
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Tgt Ion: 96 Resp: 2012
 Ion Ratio Lower Upper
 96 100
 61 26.2 159.0 238.4#
 98 0.0 49.4 74.2#





#19

Isopropyl Alcohol

Concen: 0.001 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.03 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

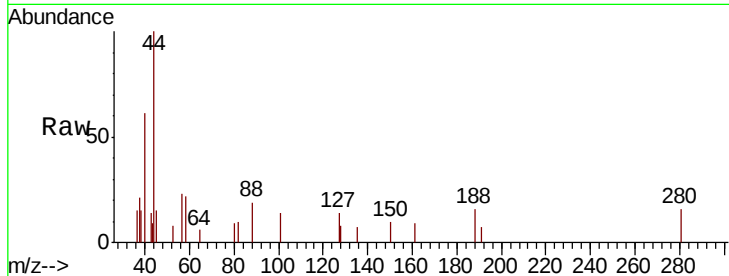
ClientSampleId :

Tot Ion: 45 Resp: 74

Ion Ratio Lower Upper

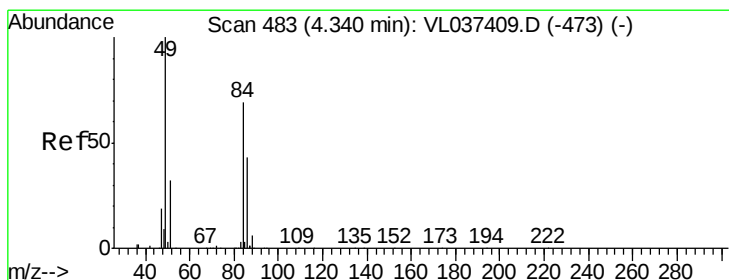
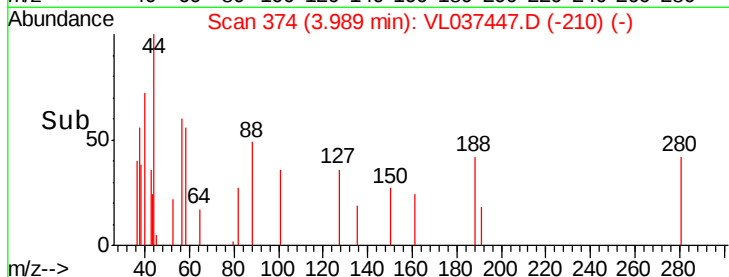
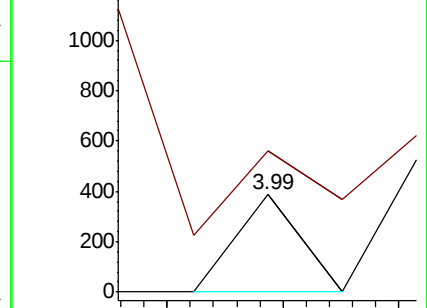
45 100

58 0.0 2.2 3.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.045 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Tgt Ion: 84 Resp: 3128

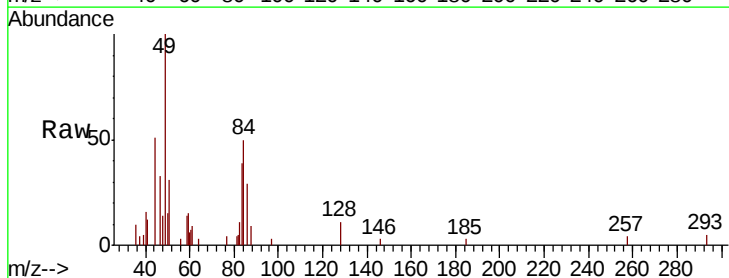
Ion Ratio Lower Upper

84 100

49 69.7 116.0 174.0#

51 18.6 37.1 55.7#

86 20.0 49.4 74.0#

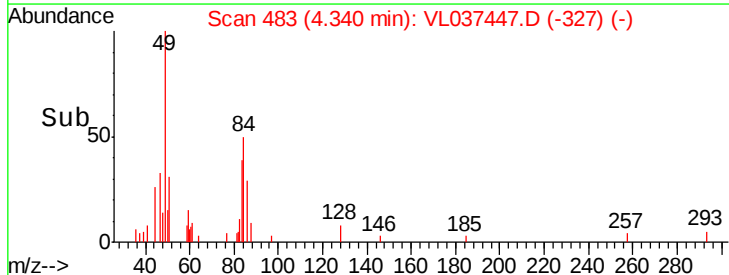
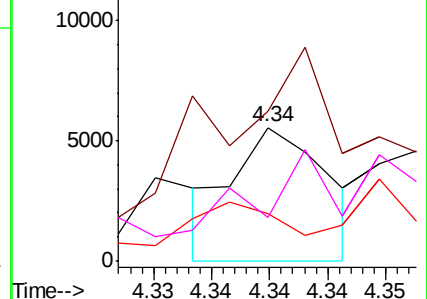


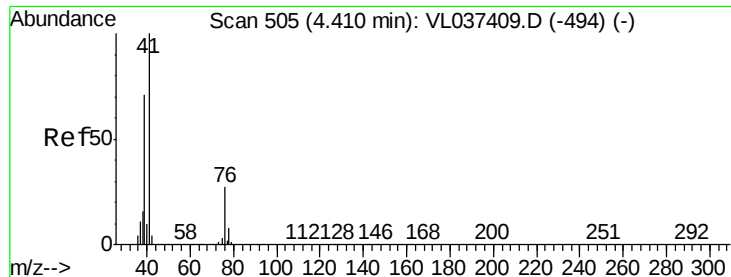
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

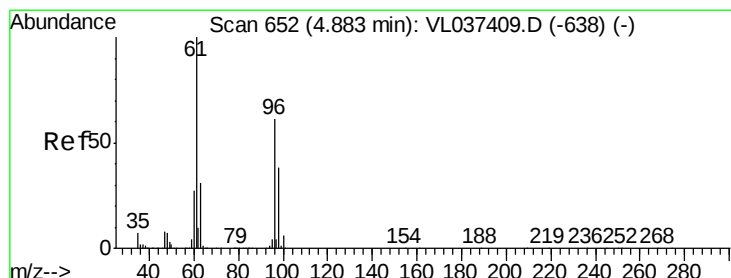
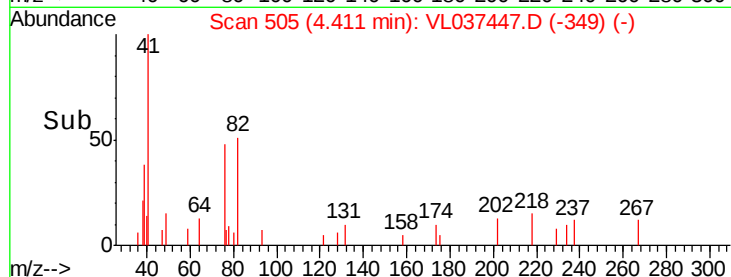
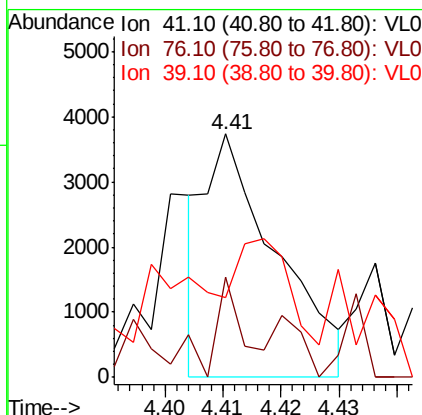
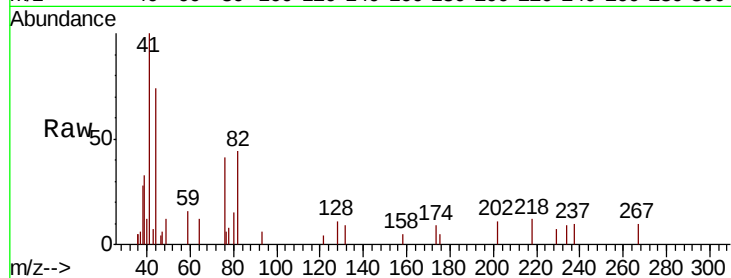




#21
Allvl Chloride
Concen: 0.031 ppbv
RT: 4.41 min Scan# 505
Delta R.T. 0.00 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

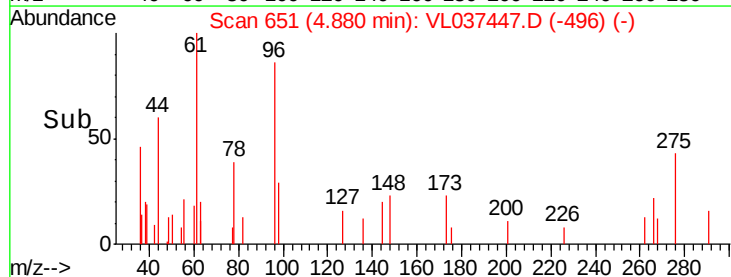
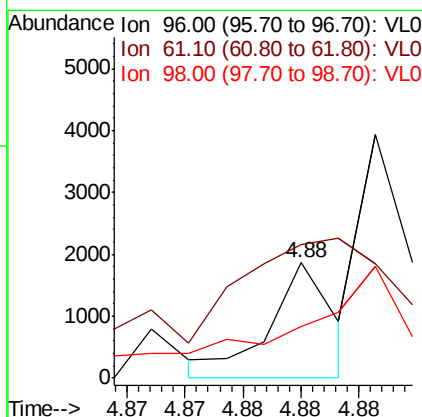
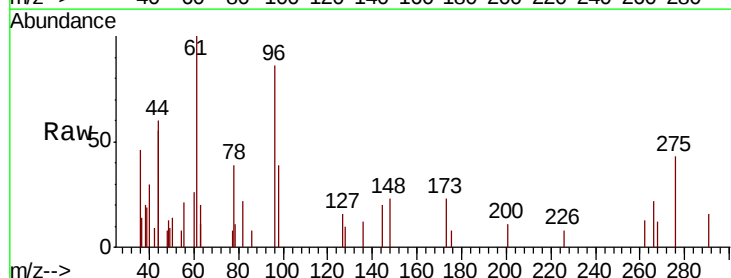
Instrument :
MSVOA_L
ClientSampled :

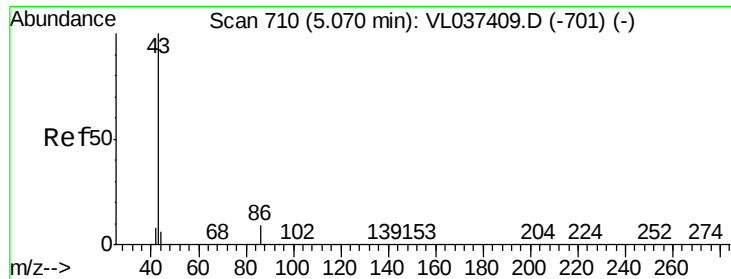
Tot Ion: 41 Resp: 3184
Ion Ratio Lower Upper
41 100
76 48.8 23.7 35.5#
39 134.8 62.3 93.5#



#22
trans-1,2-Dichloroethene
Concen: 0.011 ppbv
RT: 4.88 min Scan# 651
Delta R.T. -0.00 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

Tgt Ion: 96 Resp: 710
Ion Ratio Lower Upper
96 100
61 101.5 131.0 196.4#
98 27.7 50.2 75.4#





#23

Vinyl Acetate

Concen: 0.002 ppbv

RT: 5.06 min Scan# 708

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 430

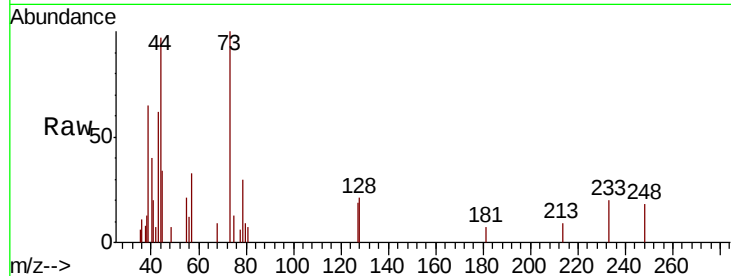
Ion Ratio Lower Upper

43 100

86 0.0 5.8 8.8#

42 17.1 7.7 11.5#

44 169.0 4.0 6.0#

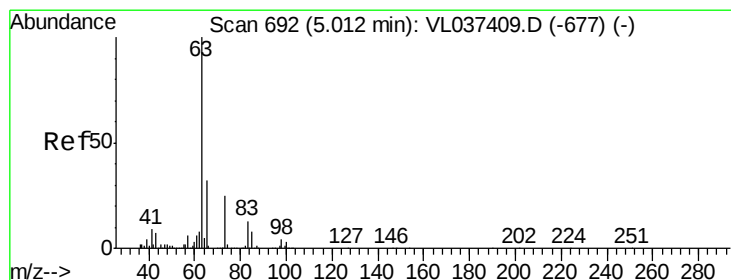
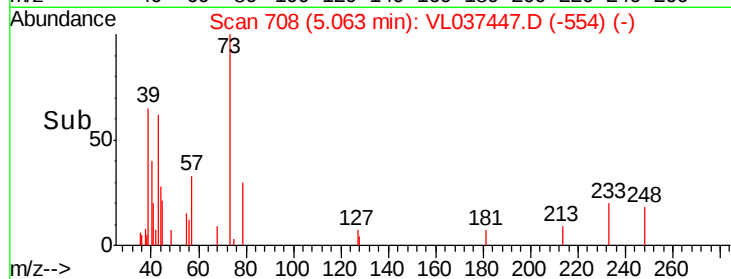
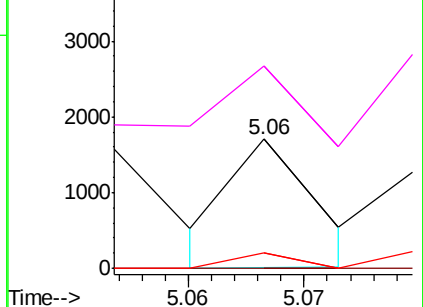


Abundance Ion 43.10 (42.80 to 43.80): VL0

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



#24

1,1-Dichloroethane

Concen: 0.017 ppbv

RT: 5.02 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

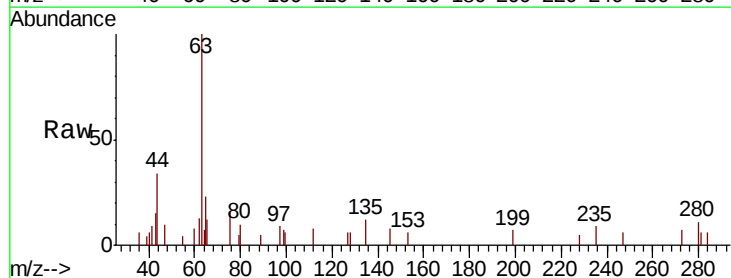
Tgt Ion: 63 Resp: 2632

Ion Ratio Lower Upper

63 100

98 10.1 2.1 6.3#

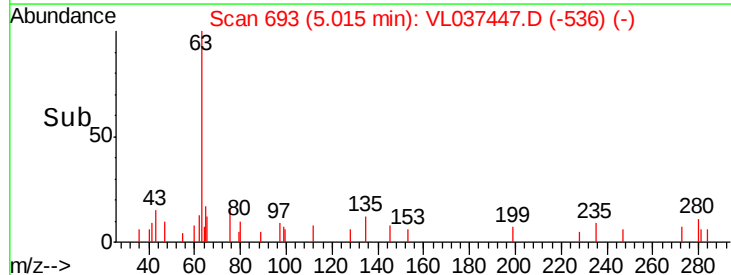
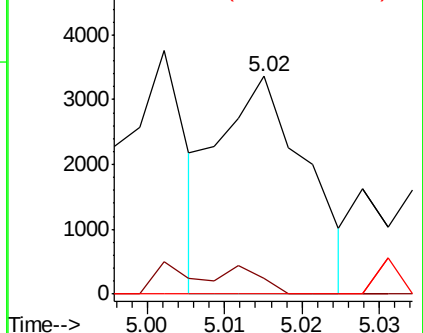
100 0.0 1.6 4.7#

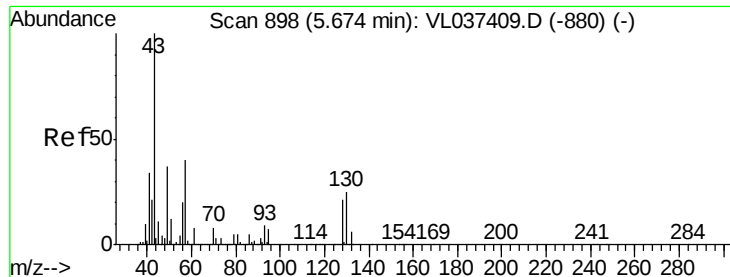


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.003 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 954

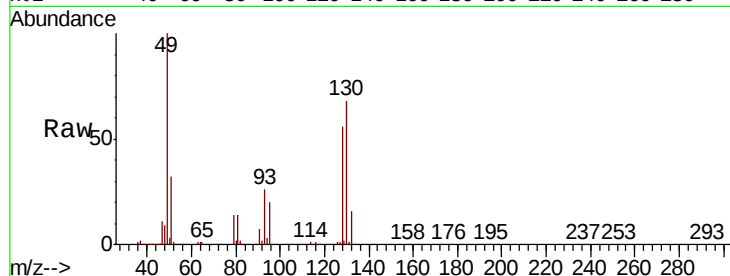
Ion Ratio Lower Upper

43 100

45 93.3 7.9 11.9#

61 0.0 7.7 11.5#

70 0.0 5.8 8.6#

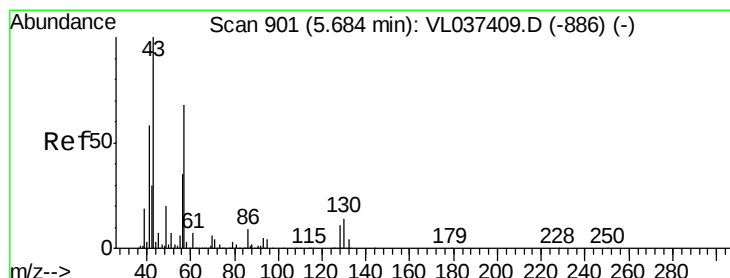
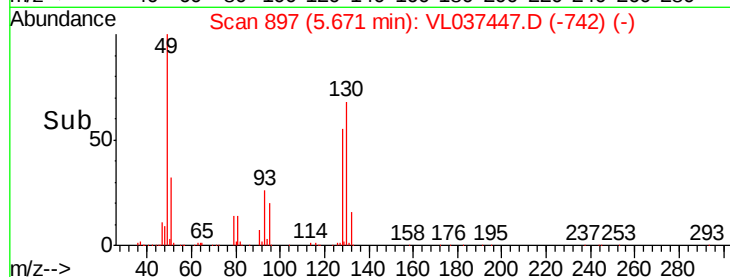
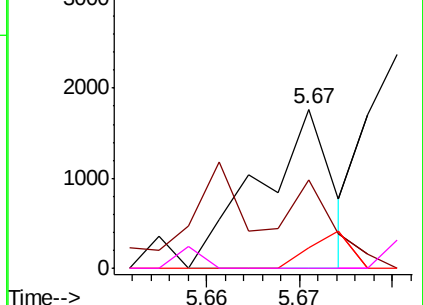


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.030 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Tgt Ion: 57 Resp: 4780

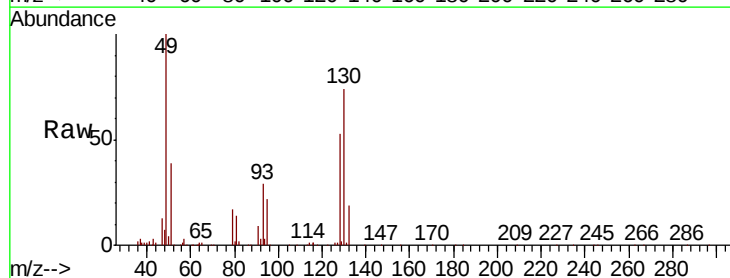
Ion Ratio Lower Upper

57 100

41 165.6 72.5 108.7#

43 286.1 169.3 253.9#

56 92.7 42.3 63.5#

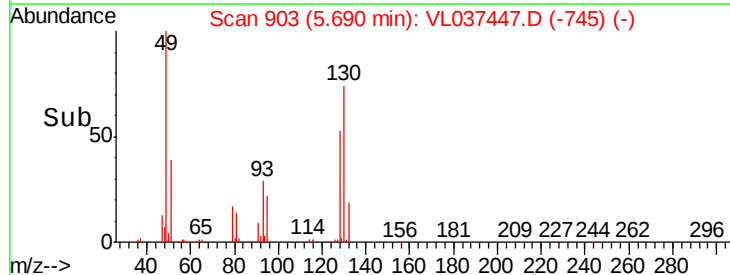
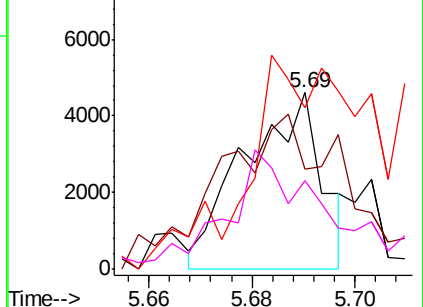


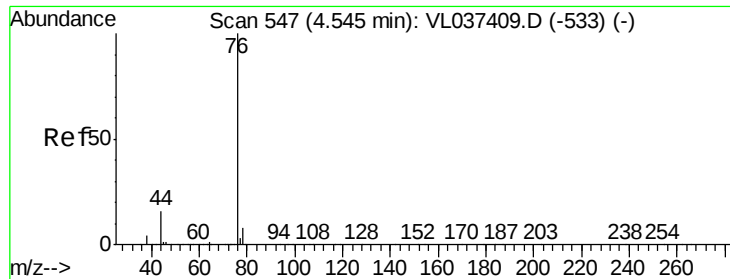
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 0.011 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :
MSVOA_L
ClientSampled :

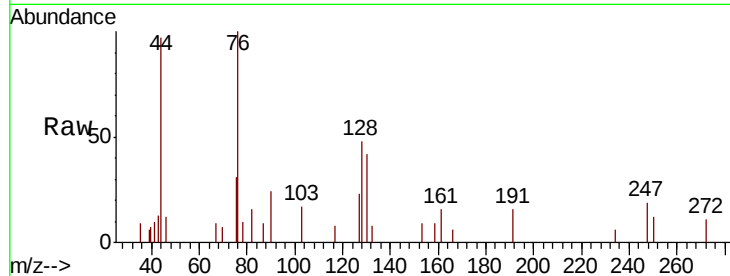
Tot Ion: 76 Resp: 1536

Ion Ratio Lower Upper

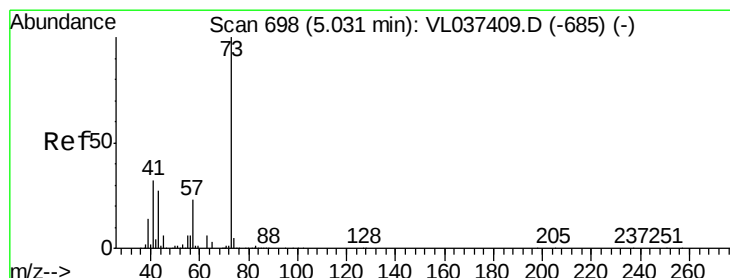
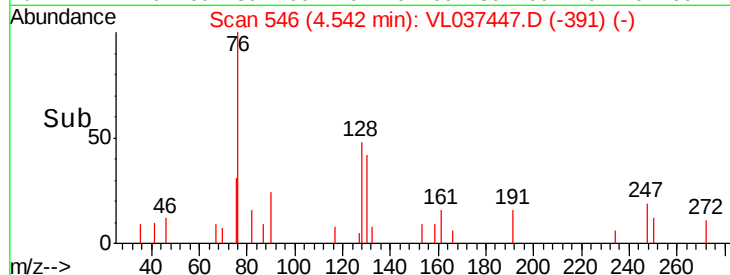
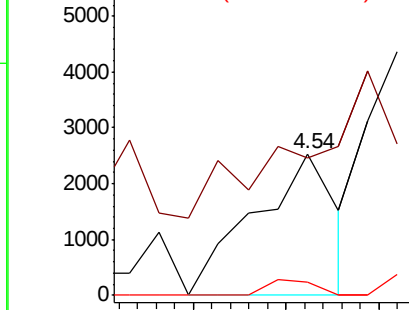
76 100

44 0.0 14.4 21.6#

78 0.0 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.003 ppbv

RT: 5.04 min Scan# 700

Delta R.T. 0.01 min

Lab File: VL037447.D

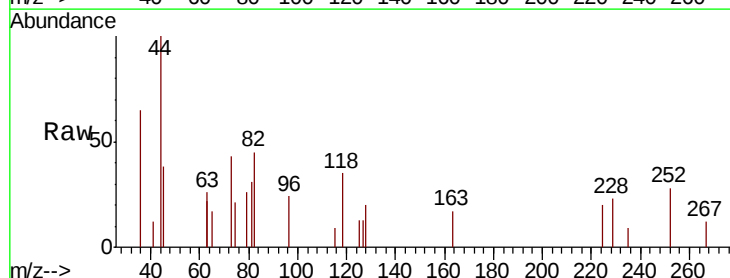
Acq: 13 Aug 2021 14:00

Tgt Ion: 73 Resp: 499

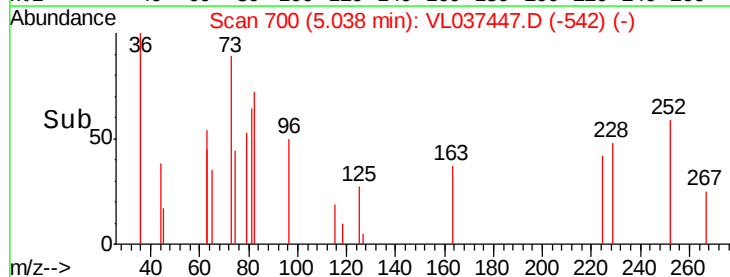
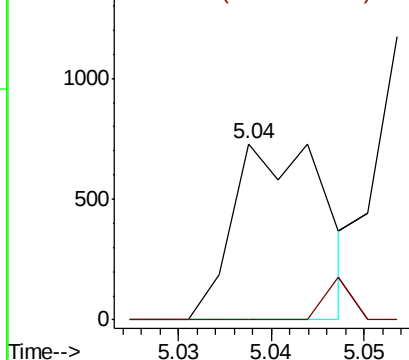
Ion Ratio Lower Upper

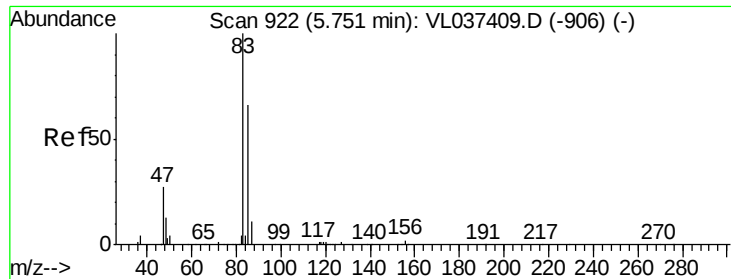
73 100

57 0.0 19.0 28.4#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.016 ppbv

RT: 5.75 min Scan# 921

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

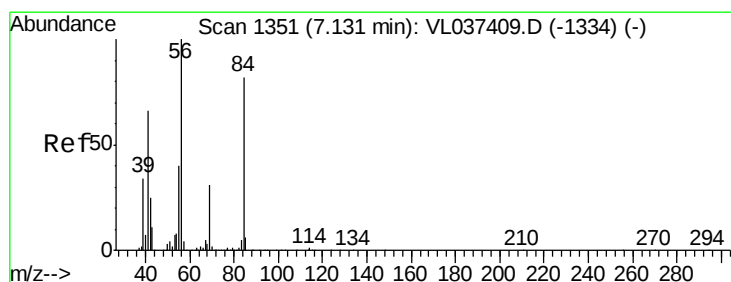
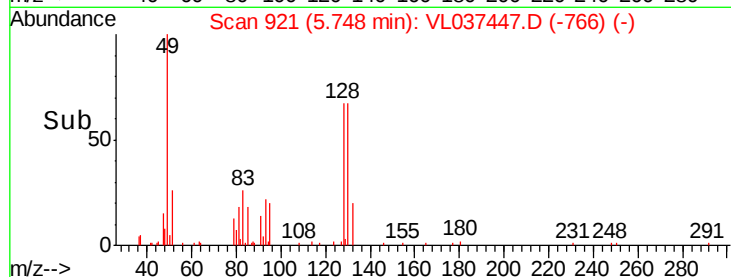
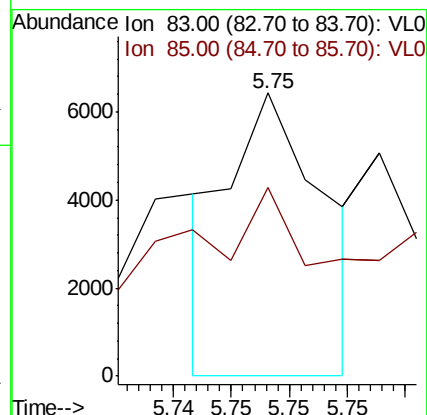
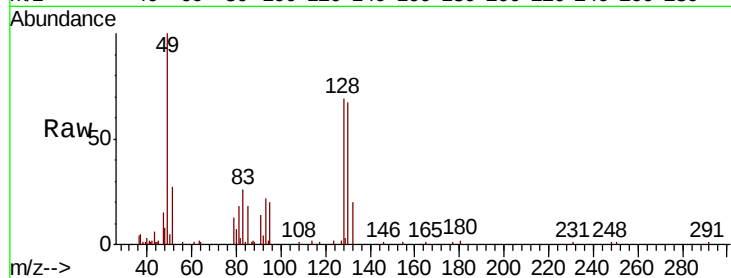
ClientSampleId :

Tot Ion: 83 Resp: 3661

Ion Ratio Lower Upper

83 100

85 63.4 52.4 78.6



#30

Cyclohexane

Concen: 0.006 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

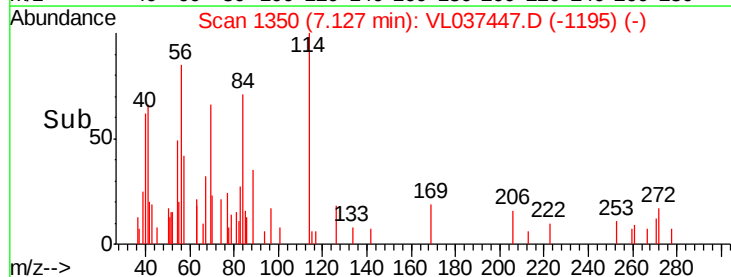
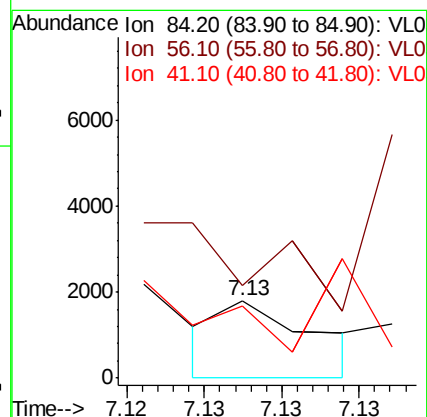
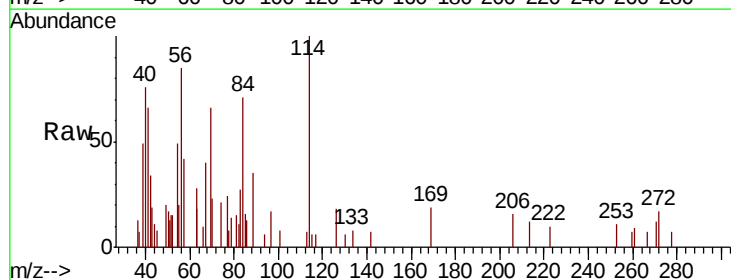
Tgt Ion: 84 Resp: 759

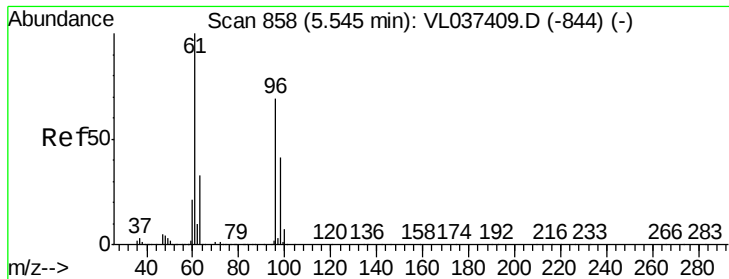
Ion Ratio Lower Upper

84 100

56 0.0 109.6 164.4#

41 653.4 66.6 99.8#





#31

cis-1,2-Dichloroethene

Concen: 0.026 ppbv

RT: 5.55 min Scan# 858

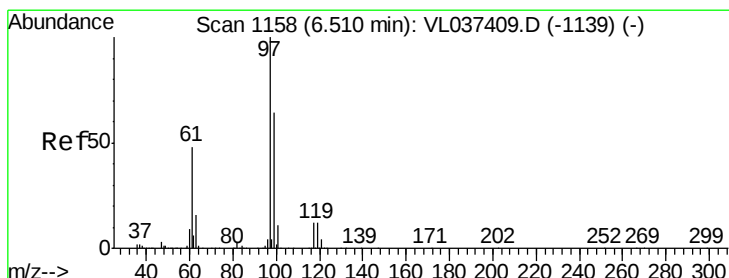
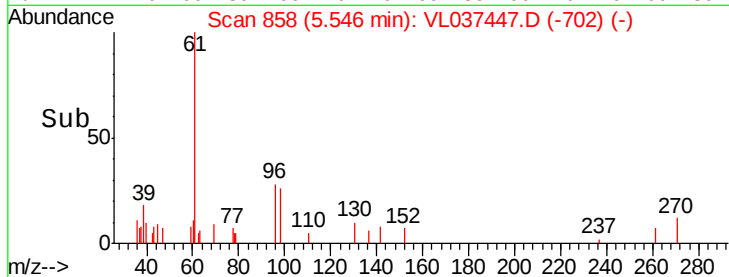
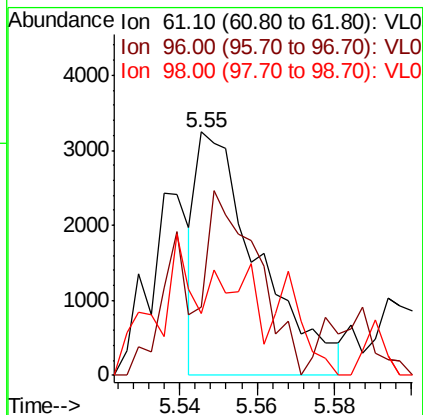
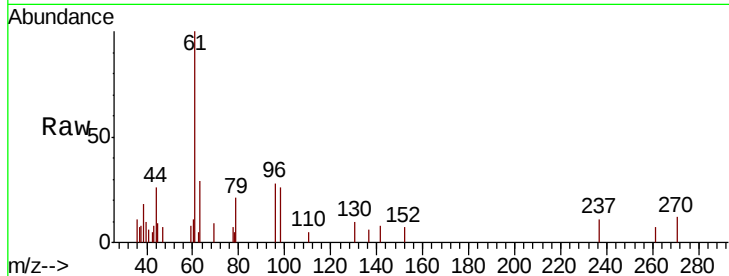
Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	61	Resp:	3597
Ion	Ratio	Lower	Upper
61	100		
96	13.1	55.5	83.3#
98	29.6	33.1	49.7#



#32

1,1,1-Trichloroethane

Concen: 0.008 ppbv

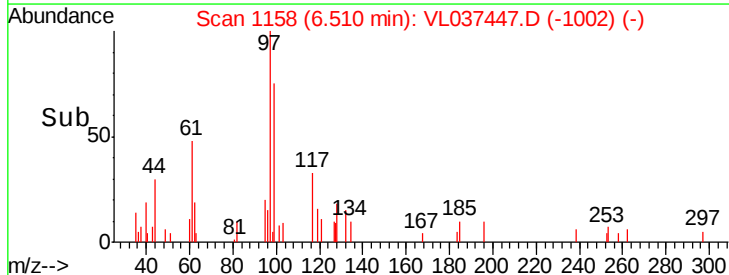
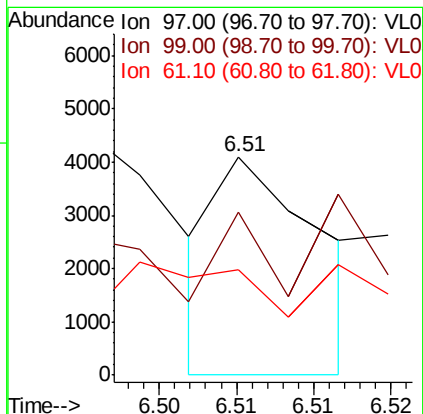
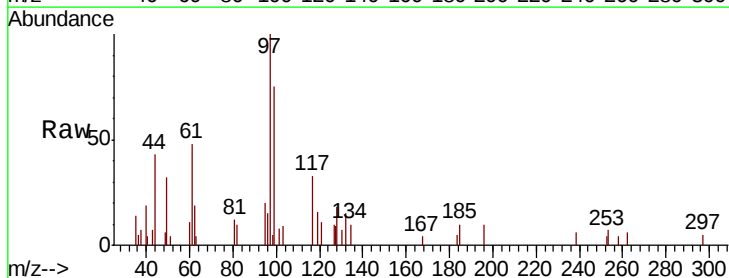
RT: 6.51 min Scan# 1158

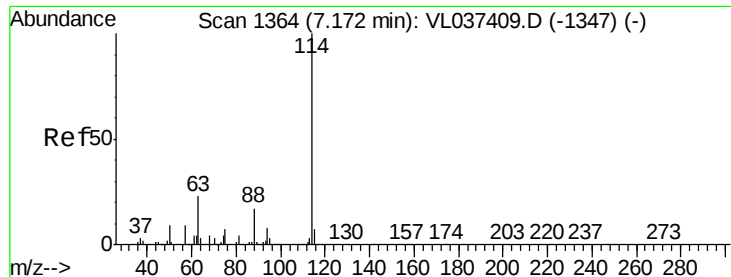
Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Tgt Ion:	97	Resp:	1876
Ion	Ratio	Lower	Upper
97	100		
99	0.0	52.3	78.5#
61	0.0	40.1	60.1#

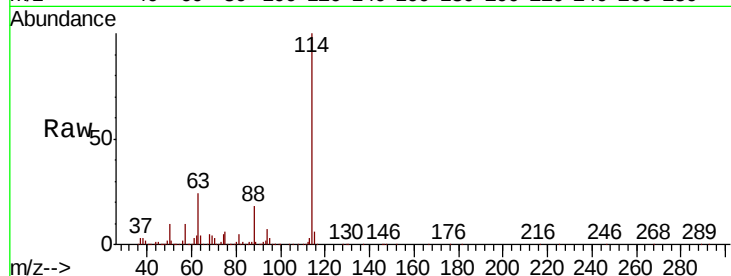




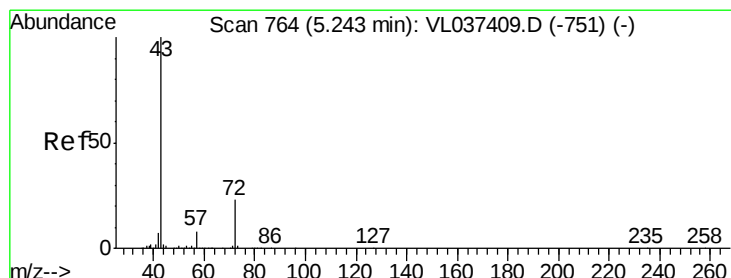
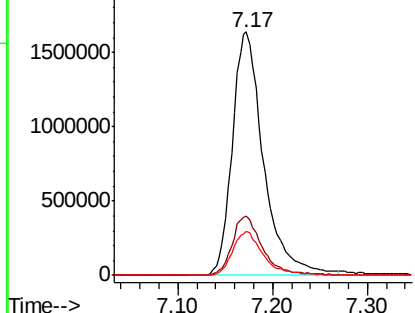
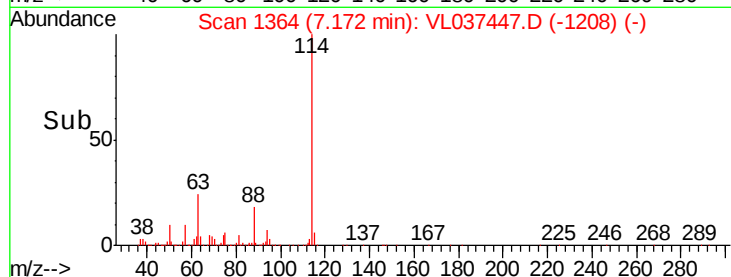
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3755620
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.4 29.2
 88 18.0 14.2 21.4

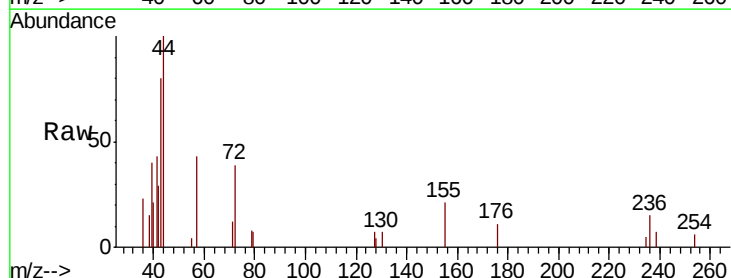


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

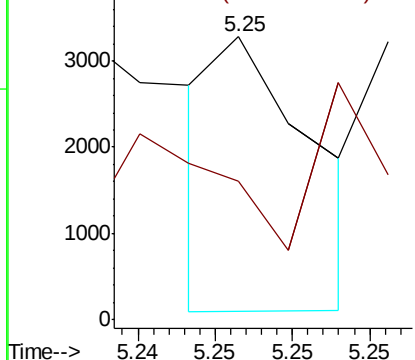
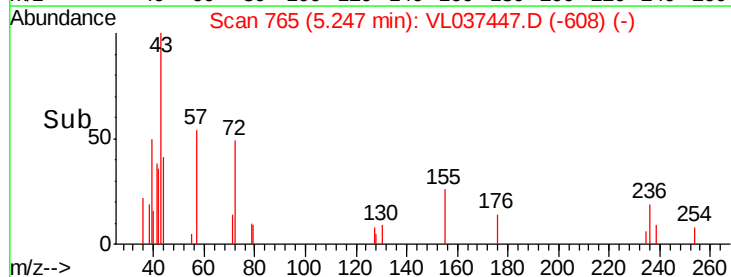


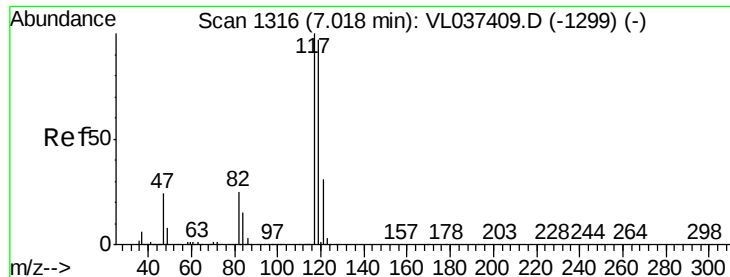
#34
 2-Butanone
 Concen: 0.009 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Tgt Ion: 43 Resp: 1376
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.7 26.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.011 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

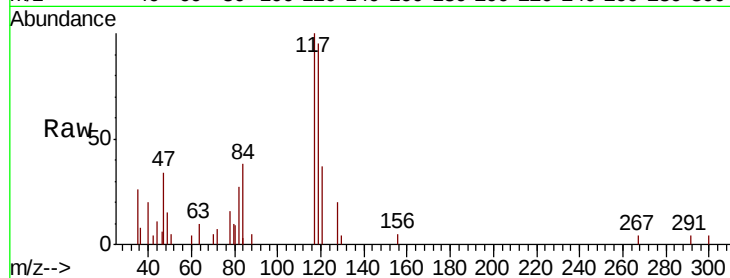
Tot Ion:117 Resp: 2501

Ion Ratio Lower Upper

117 100

119 38.1 77.5 116.3#

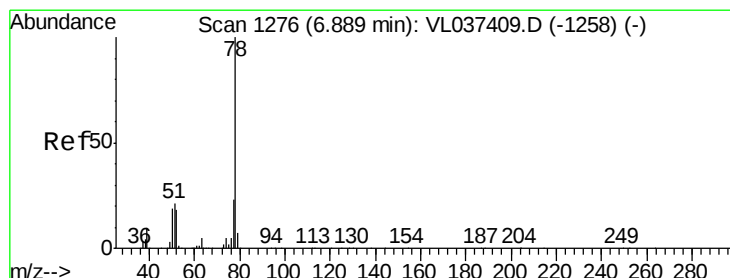
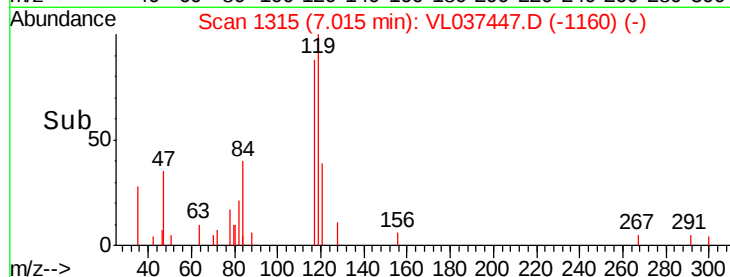
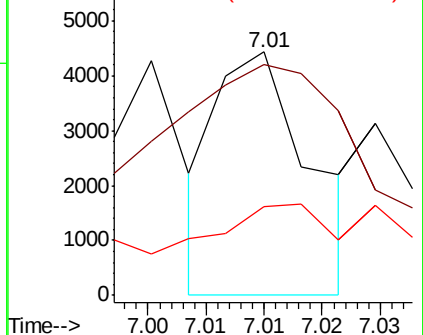
121 27.1 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.005 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

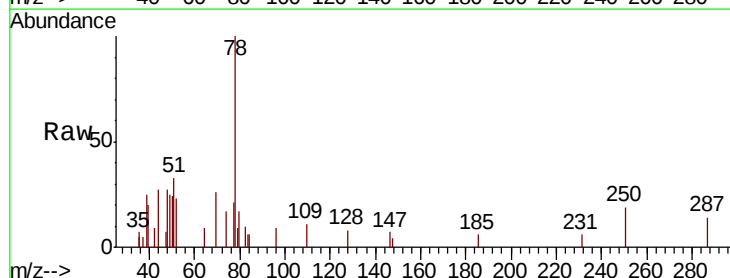
Tgt Ion: 78 Resp: 1651

Ion Ratio Lower Upper

78 100

77 9.2 18.6 27.8#

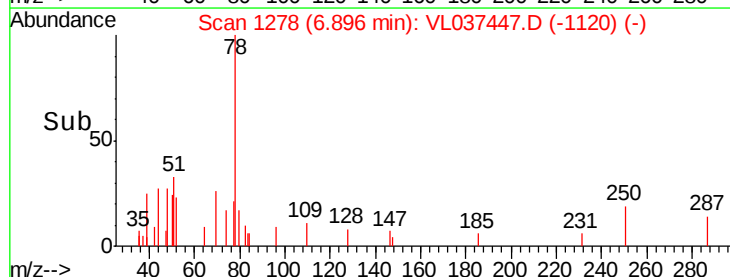
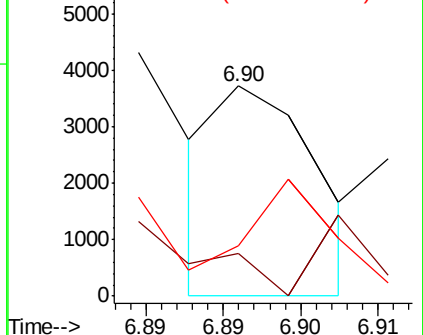
50 21.4 14.9 22.3

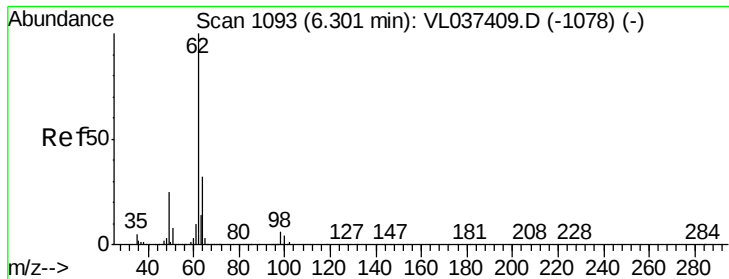


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.010 ppbv

RT: 6.30 min Scan# 1093

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

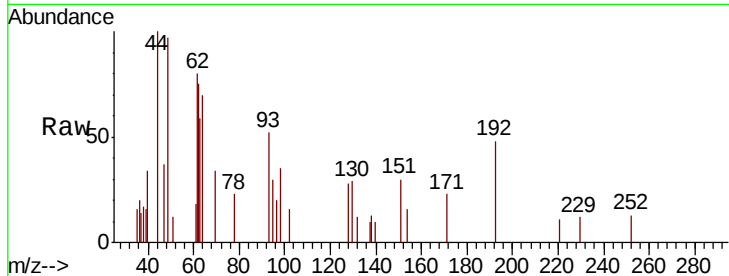
ClientSampleId :

Tot Ion: 62 Resp: 1572

Ion Ratio Lower Upper

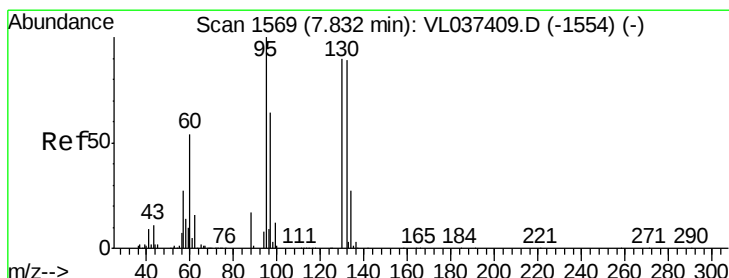
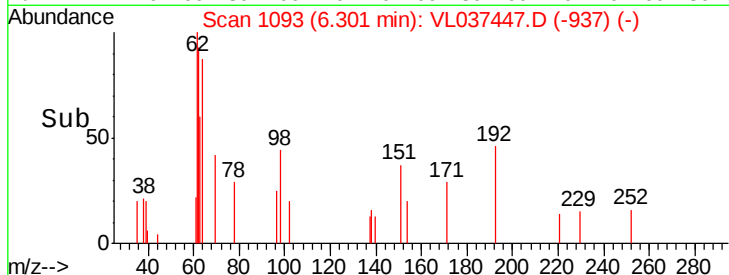
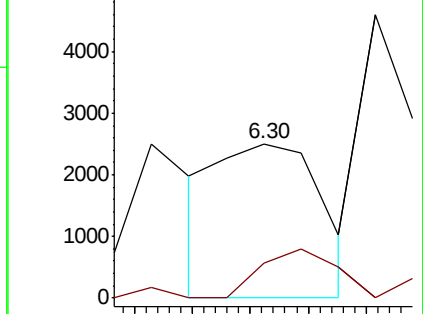
62 100

98 29.1 5.4 8.2#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.009 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Tgt Ion: 130 Resp: 1312

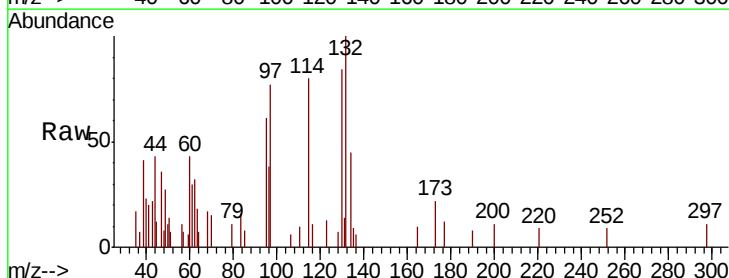
Ion Ratio Lower Upper

130 100

95 39.5 88.6 132.8#

132 128.0 79.2 118.8#

97 78.4 56.9 85.3

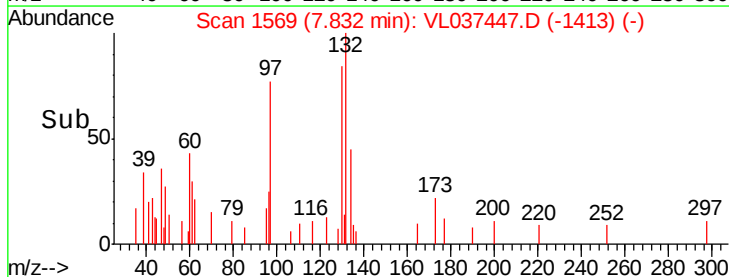
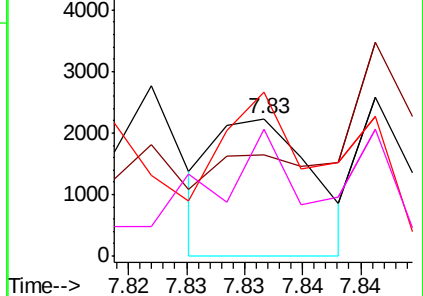


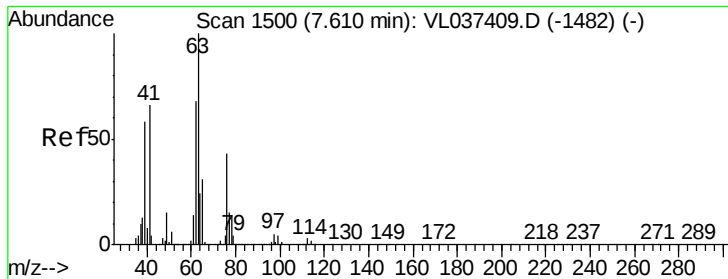
Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.271 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.44 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

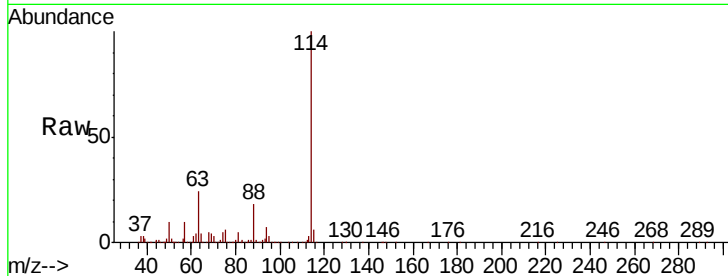
Tot Ion: 63 Resp: 877087

Ion Ratio Lower Upper

63 100

41 0.4 53.0 79.6#

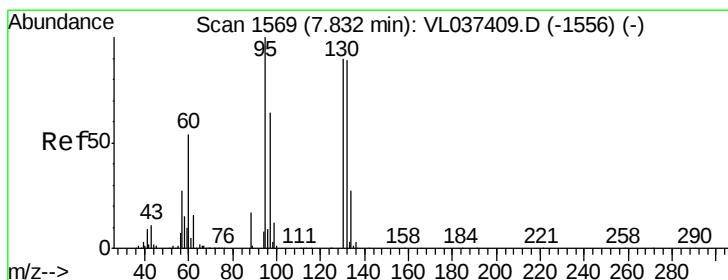
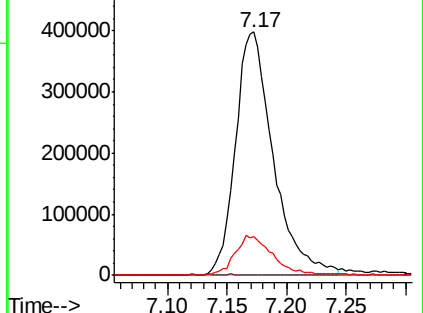
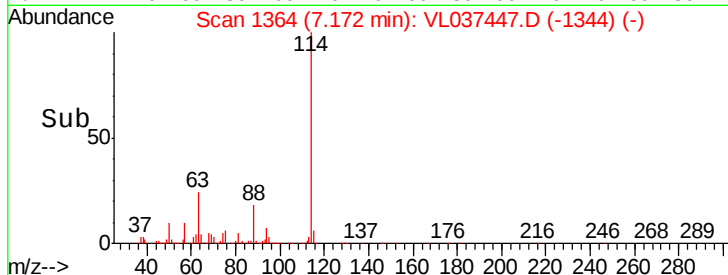
62 15.9 54.5 81.7#



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: 0.010 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Tgt Ion: 88 Resp: 296

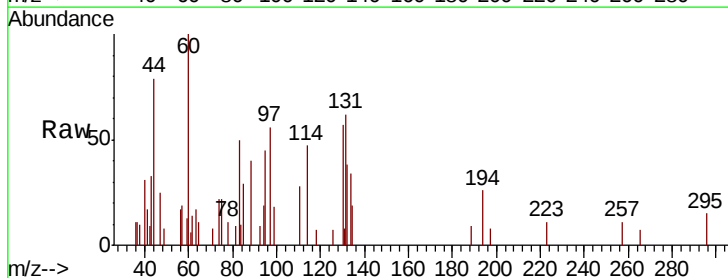
Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0

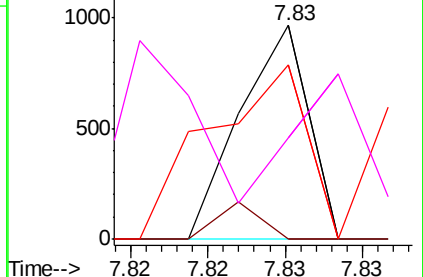
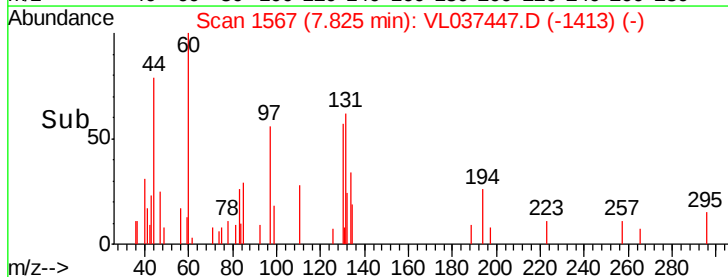


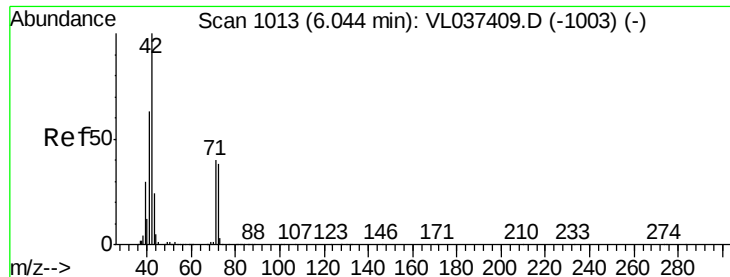
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 0.006 ppbv

RT: 6.09 min Scan# 1026

Delta R.T. 0.04 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

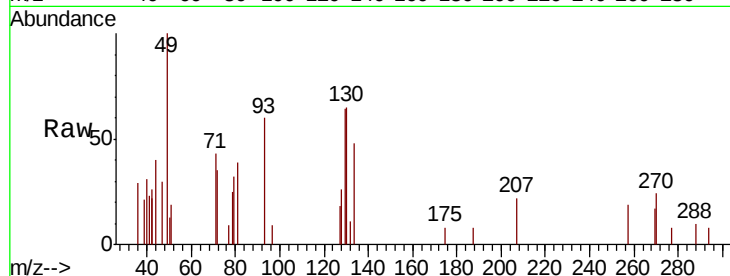
Tot Ion: 42 Resp: 412

Ion Ratio Lower Upper

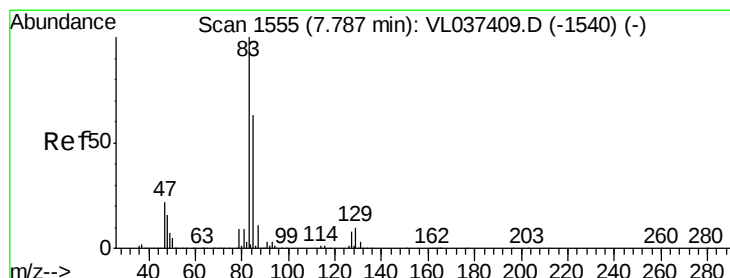
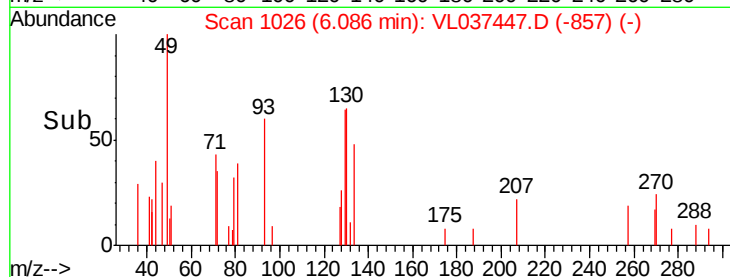
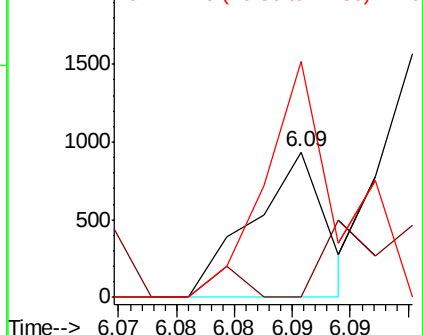
42 100

72 0.0 33.5 50.3#

71 199.8 32.6 48.8#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.017 ppbv

RT: 7.78 min Scan# 1553

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

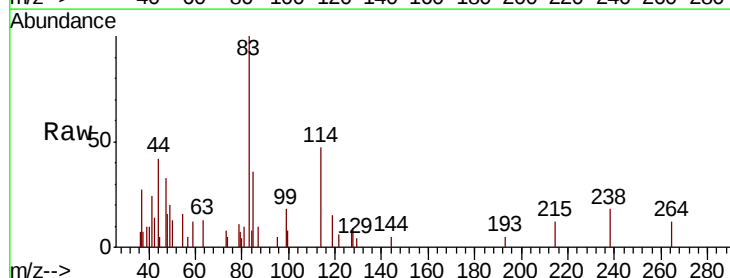
Tgt Ion: 83 Resp: 3817

Ion Ratio Lower Upper

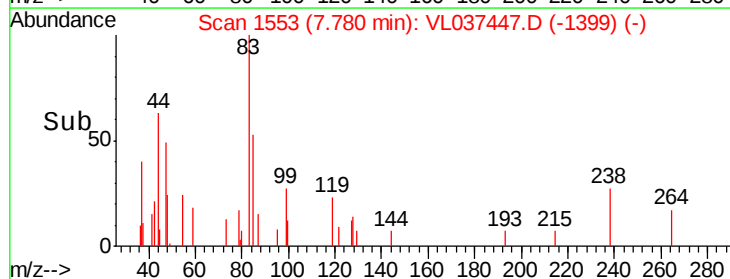
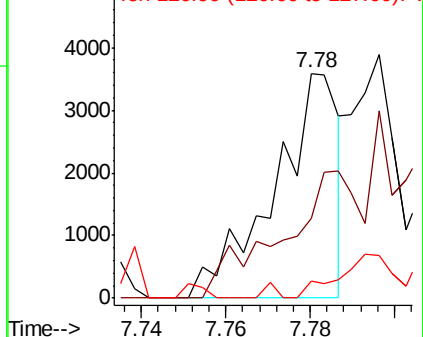
83 100

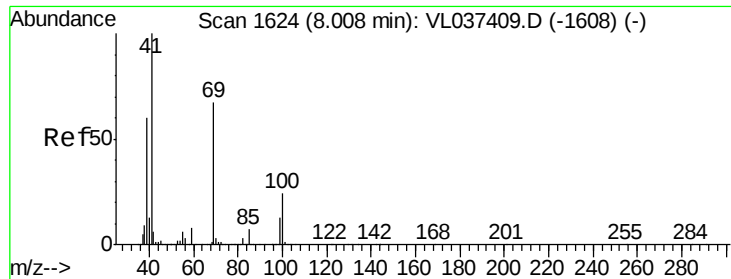
85 35.6 50.2 75.2#

127 1.5 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V

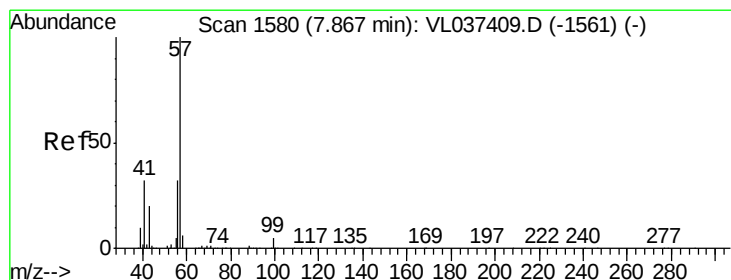
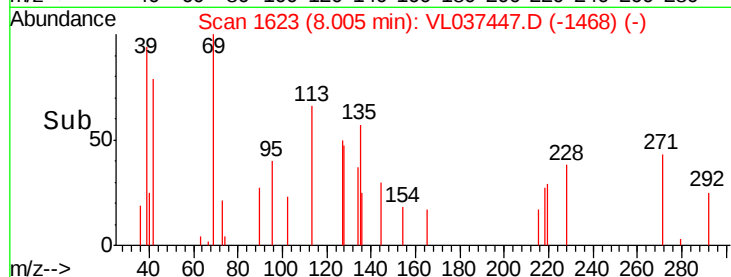
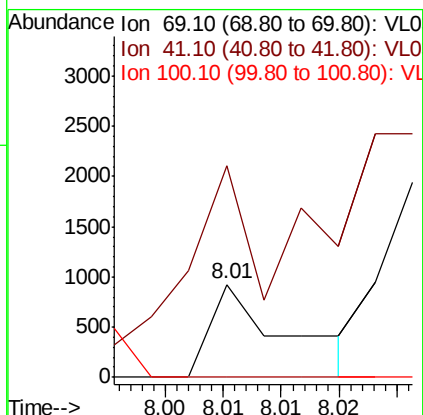
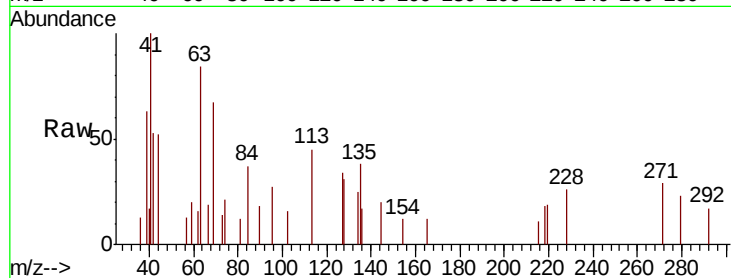




#43
Methvl Methacrylate
Concen: 0.004 ppbv
RT: 8.01 min Scan# 1623
Delta R.T. -0.00 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

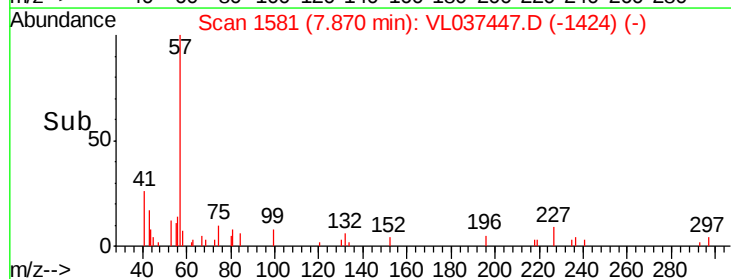
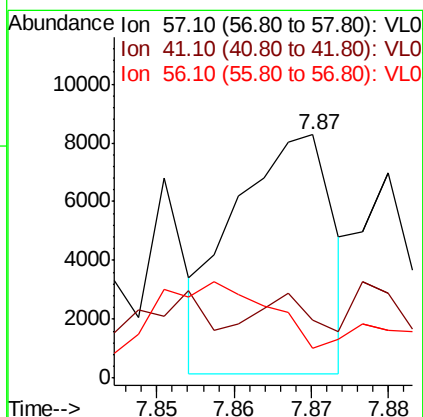
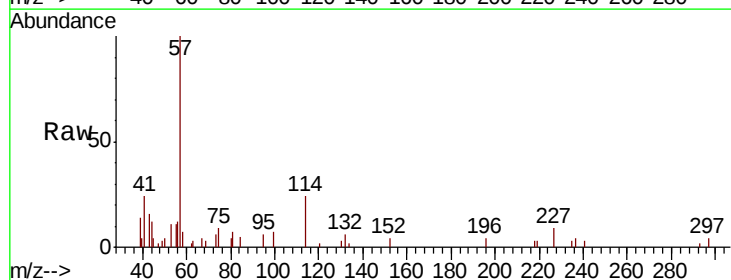
Instrument :
MSVOA_L
ClientSampleId :

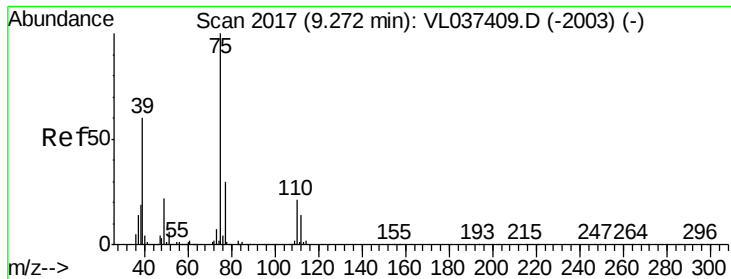
Tot Ion: 69 Resp: 417
Ion Ratio Lower Upper
69 100
41 0.0 118.1 177.1#
100 0.0 27.6 41.4#



#44
2,2,4-Trimethylpentane
Concen: 0.014 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

Tgt Ion: 57 Resp: 7239
Ion Ratio Lower Upper
57 100
41 0.0 26.4 39.6#
56 0.0 25.0 37.4#

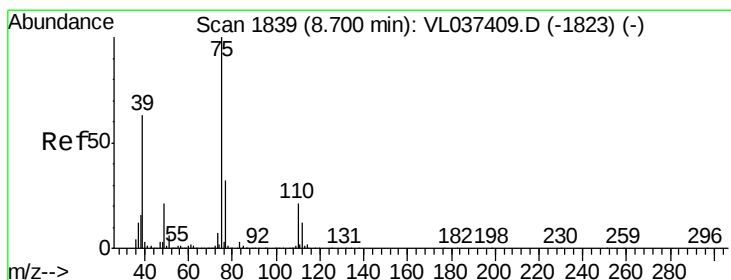
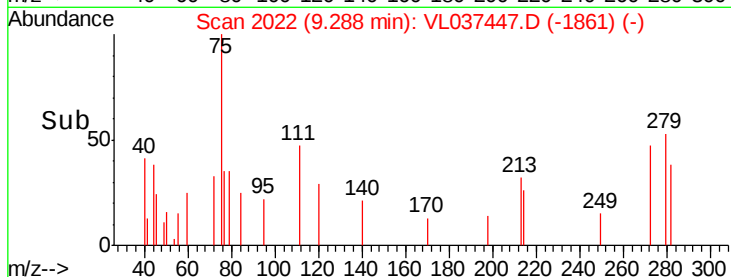
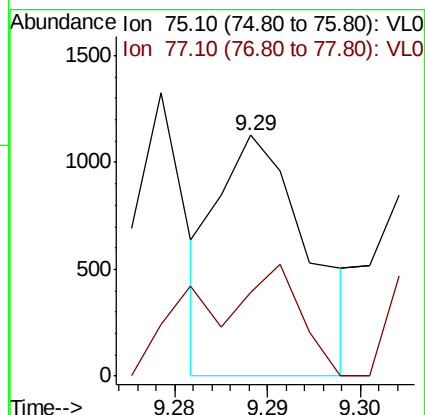
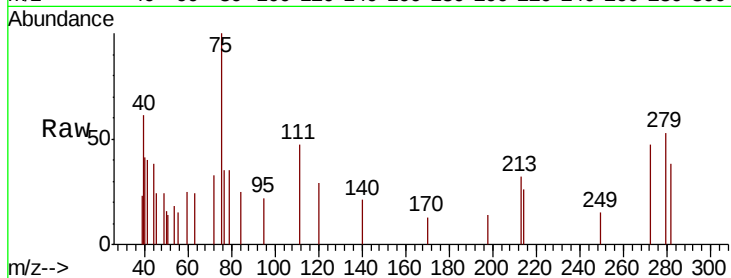




#45
t-1,3-Dichloropropene
Concen: 0.010 ppbv
RT: 9.29 min Scan# 2022
Delta R.T. 0.02 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

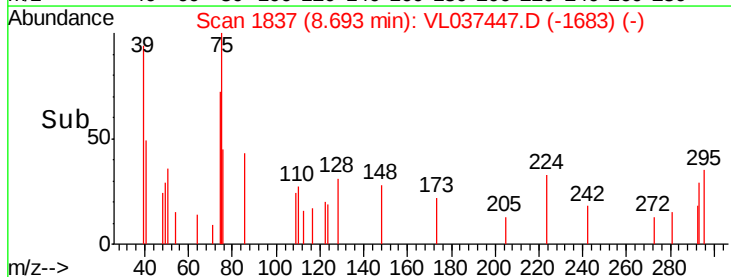
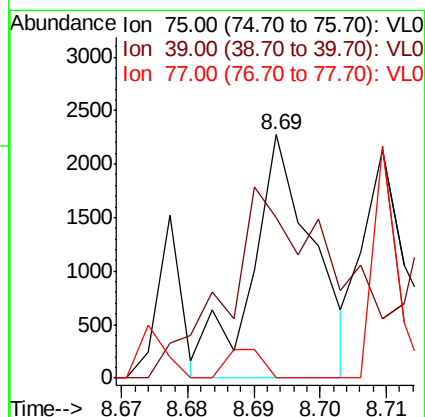
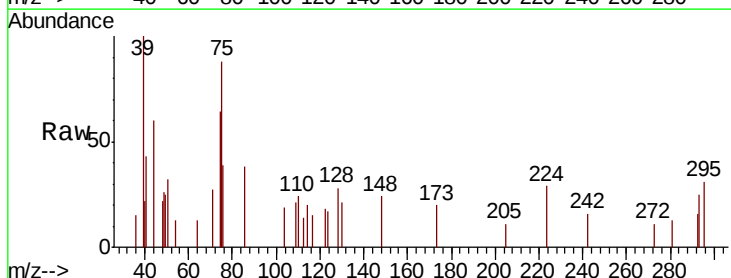
Instrument :
MSVOA_L
ClientSampled :

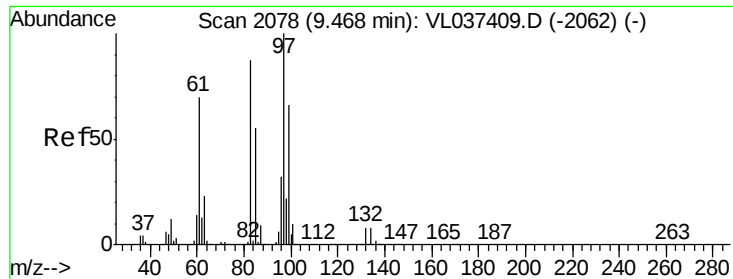
Tot Ion: 75 Resp: 766
Ion Ratio Lower Upper
75 100
77 34.7 24.2 36.2



#46
cis-1,3-Dichloropropene
Concen: 0.013 ppbv
RT: 8.69 min Scan# 1837
Delta R.T. -0.01 min
Lab File: VL037447.D
Acq: 13 Aug 2021 14:00

Tgt Ion: 75 Resp: 1447
Ion Ratio Lower Upper
75 100
39 51.8 50.1 75.1
77 0.0 25.8 38.8#

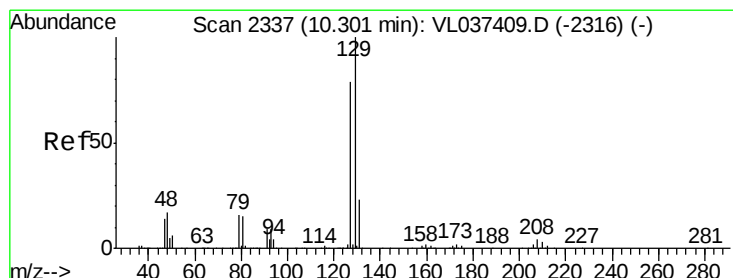
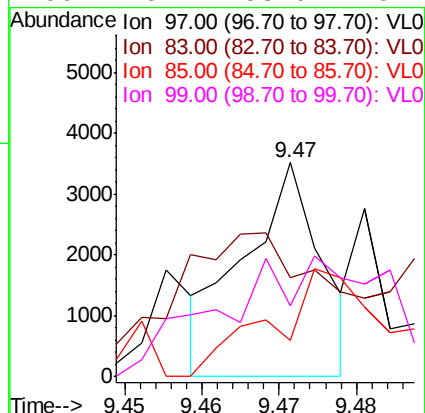
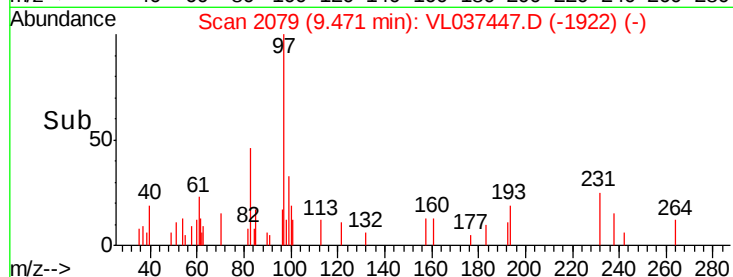
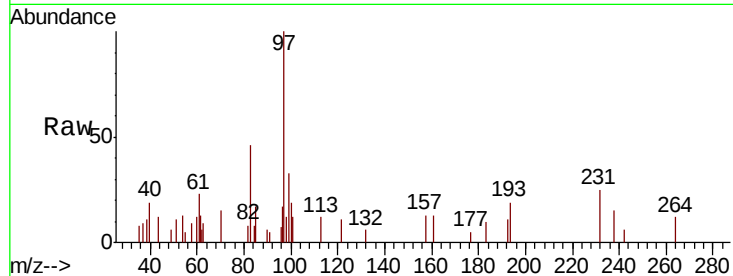




#47
 1,1,2-Trichloroethane
 Concen: 0.019 ppbv
 RT: 9.47 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

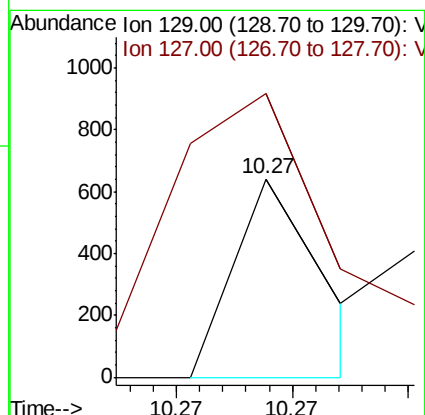
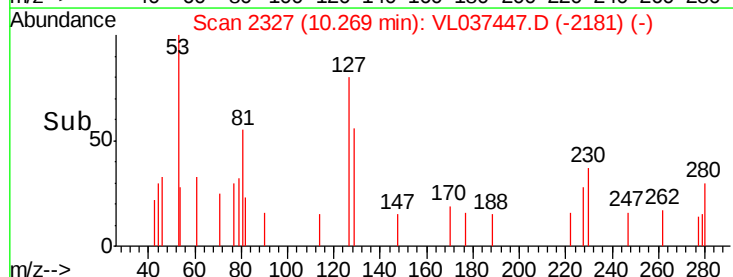
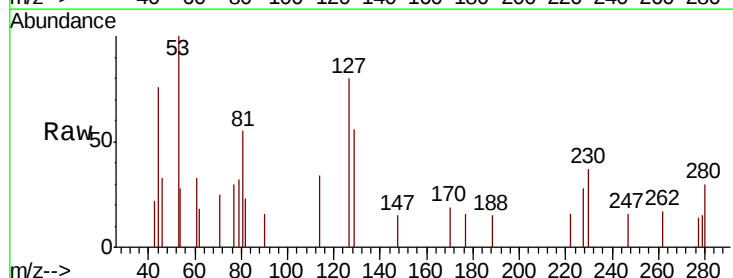
Instrument :
 MSVOA_L
 ClientSampleId :

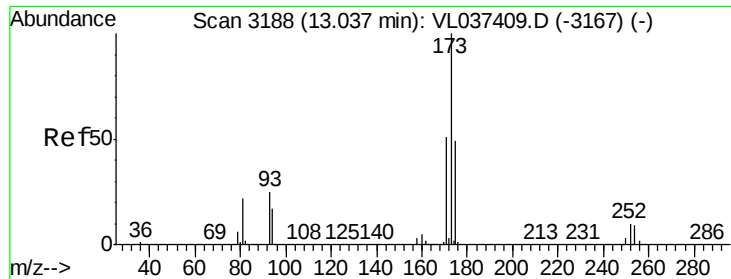
Tot Ion: 97 Resp: 2440
 Ion Ratio Lower Upper
 97 100
 83 10.2 69.5 104.3#
 85 26.7 43.8 65.8#
 99 6.2 53.0 79.4#



#48
 Dibromochloromethane
 Concen: 0.001 ppbv
 RT: 10.27 min Scan# 2327
 Delta R.T. -0.03 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Tgt Ion: 129 Resp: 169
 Ion Ratio Lower Upper
 129 100
 127 87.6 39.6 118.8





#49

Bromoform

Concen: 0.007 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

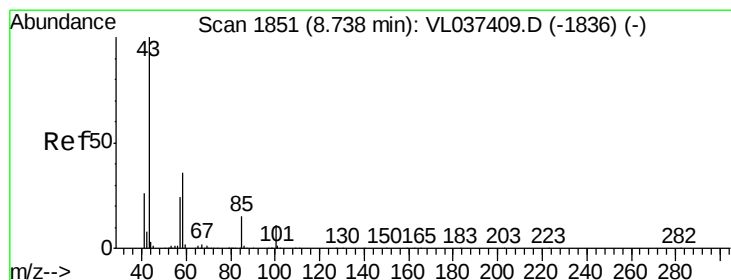
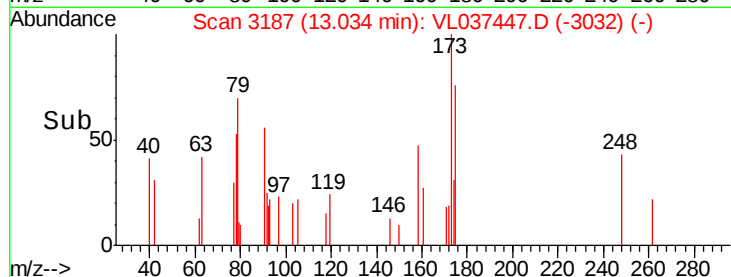
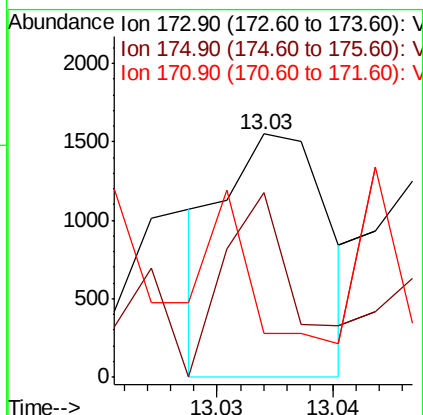
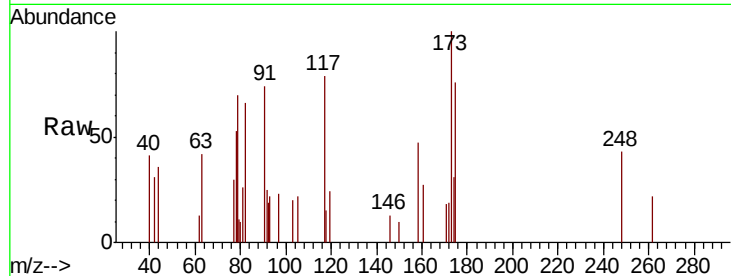
Tot Ion:173 Resp: 968

Ion Ratio Lower Upper

173 100

175 156.9 39.9 59.9#

171 0.0 41.4 62.2#



#50

4-Methyl-2-Pentanone

Concen: 0.000 ppbv

RT: 8.75 min Scan# 1855

Delta R.T. 0.01 min

Lab File: VL037447.D

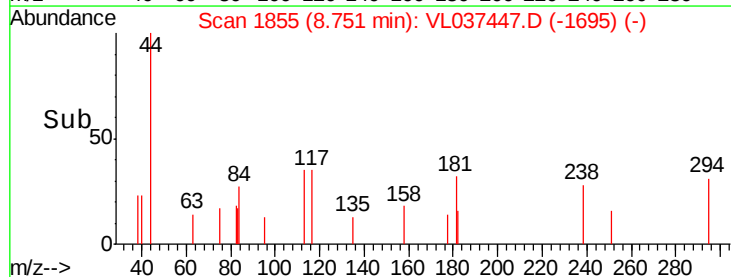
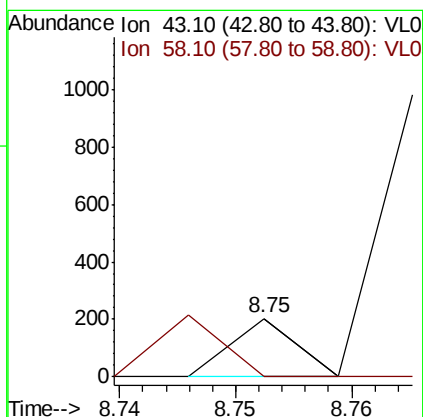
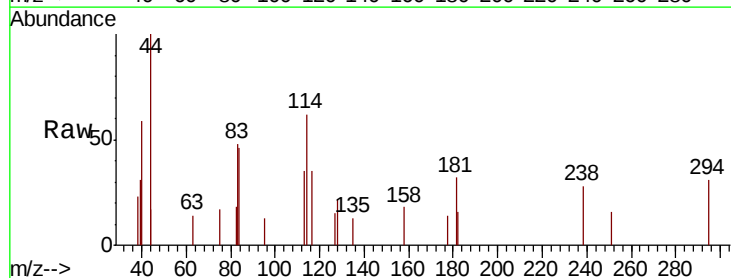
Acq: 13 Aug 2021 14:00

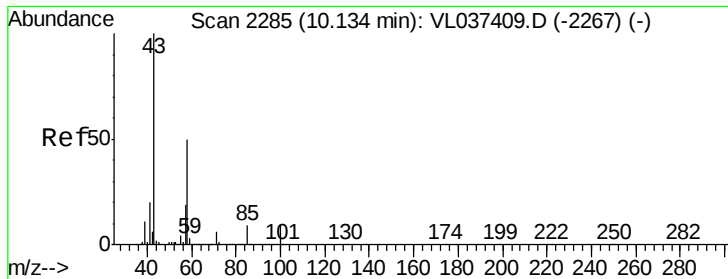
Tgt Ion: 43 Resp: 39

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#





#51

2-Hexanone

Concen: 0.001 ppbv

RT: 10.13 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

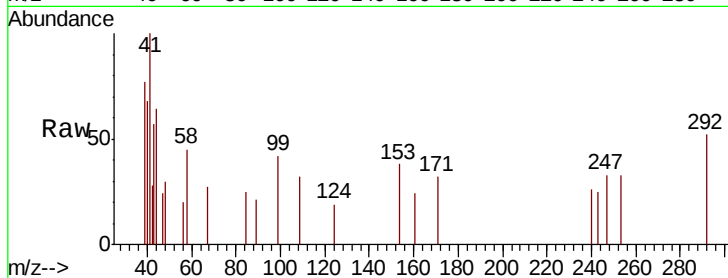
Tot Ion: 43 Resp: 135

Ion Ratio Lower Upper

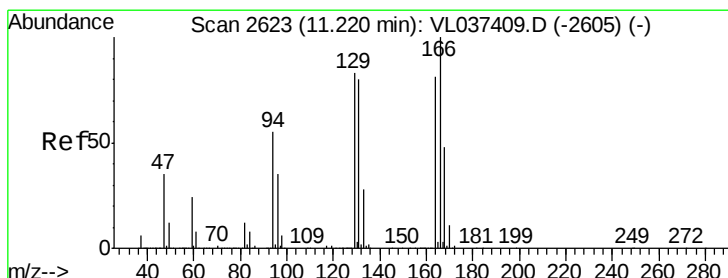
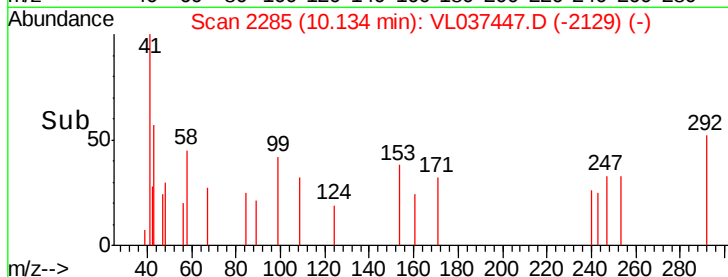
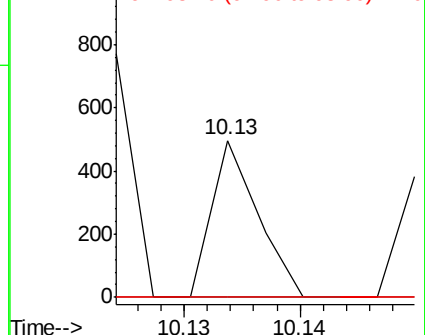
43 100

58 0.0 39.9 59.9#

98 0.0 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.006 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Tgt Ion: 164 Resp: 864

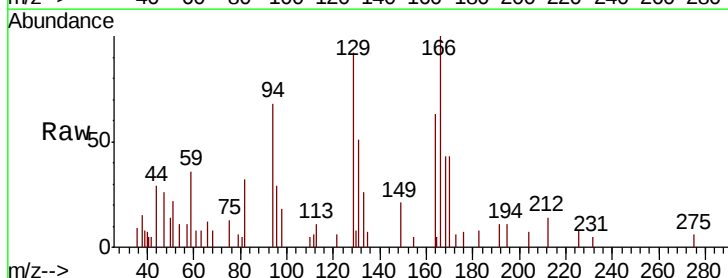
Ion Ratio Lower Upper

164 100

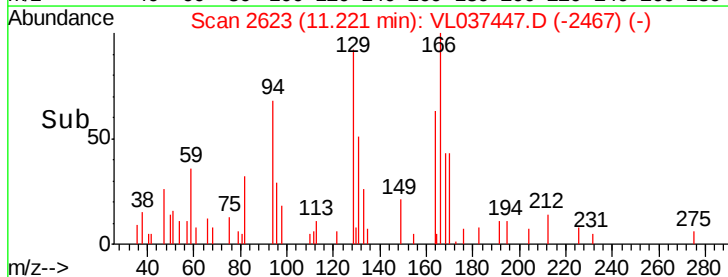
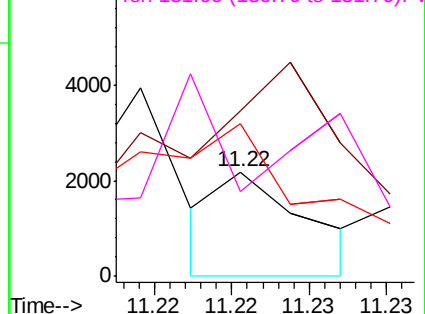
166 74.1 98.6 147.8#

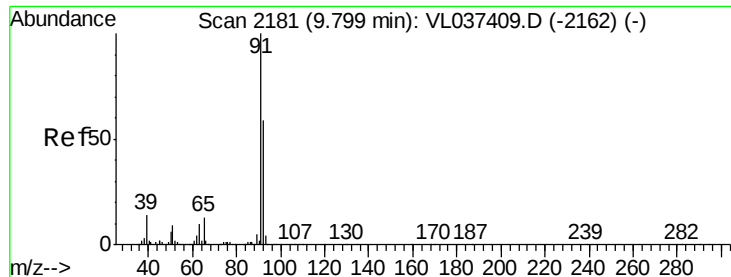
129 116.3 82.0 123.0

131 0.0 78.6 117.8#



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.014 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

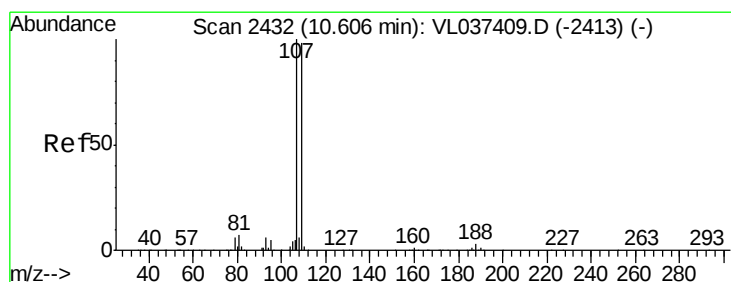
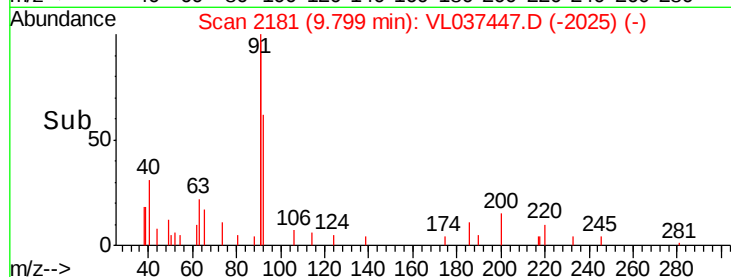
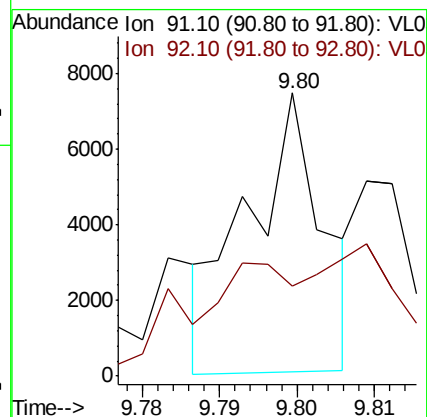
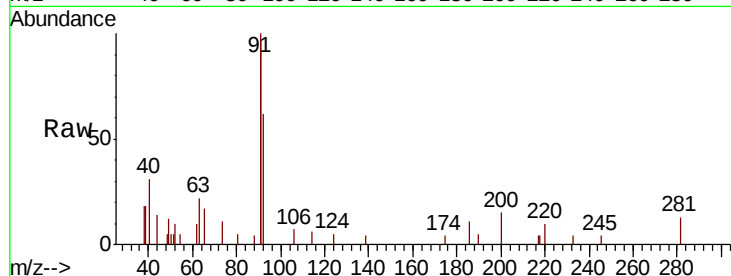
ClientSampleId :

Tot Ion: 91 Resp: 5004

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.6#



#54

1,2-Dibromoethane

Concen: 0.007 ppbv

RT: 10.60 min Scan# 2429

Delta R.T. -0.01 min

Lab File: VL037447.D

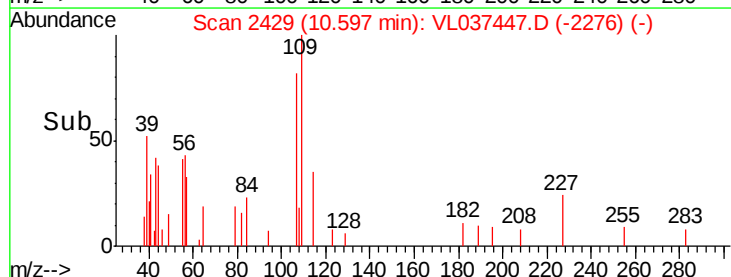
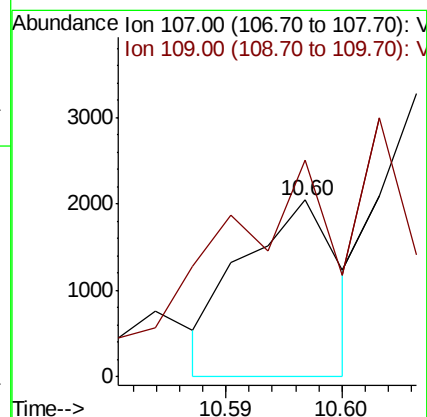
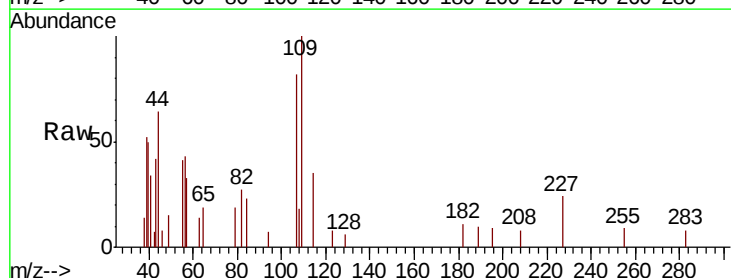
Acq: 13 Aug 2021 14:00

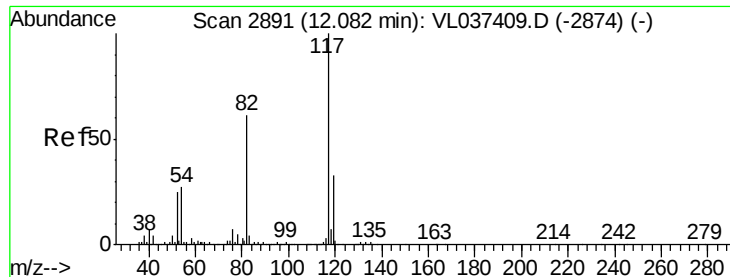
Tgt Ion: 107 Resp: 1181

Ion Ratio Lower Upper

107 100

109 88.8 78.4 117.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

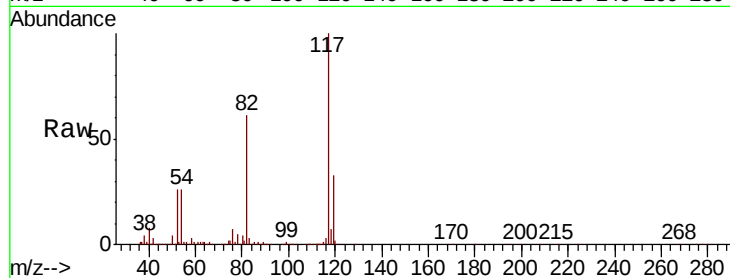
Tot Ion:117 Resp: 3263327

Ion Ratio Lower Upper

117 100

82 64.7 53.1 79.7

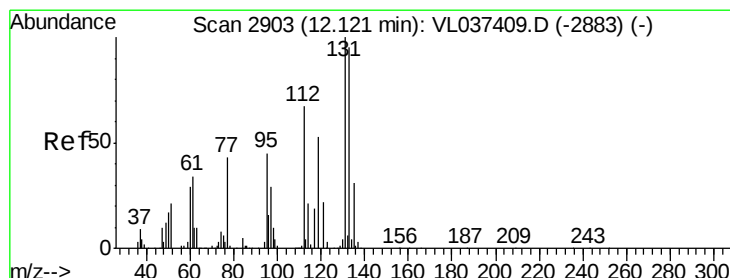
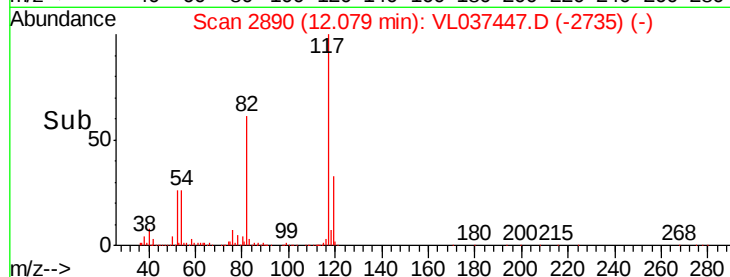
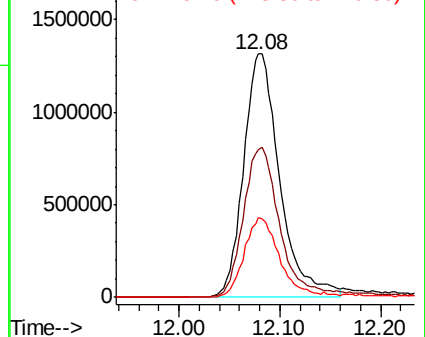
119 33.1 28.0 42.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.012 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

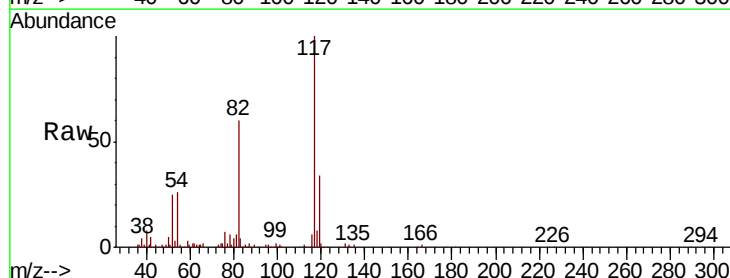
Tgt Ion:131 Resp: 1494

Ion Ratio Lower Upper

131 100

133 374.3 77.1 115.7#

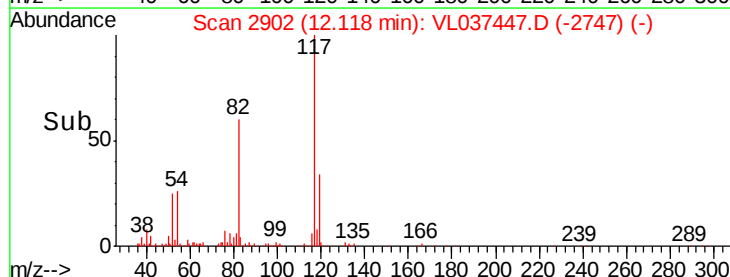
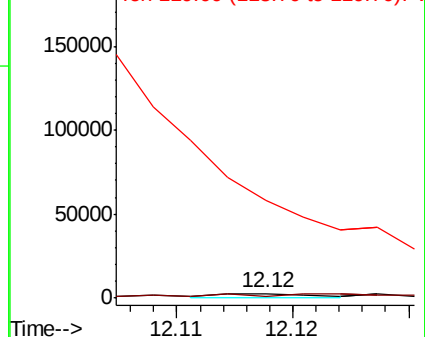
119 0.0 59.7 89.5#

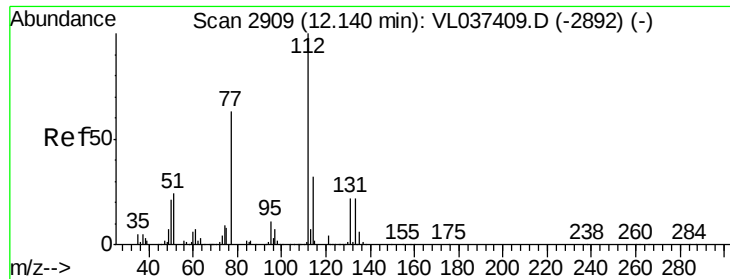


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.007 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

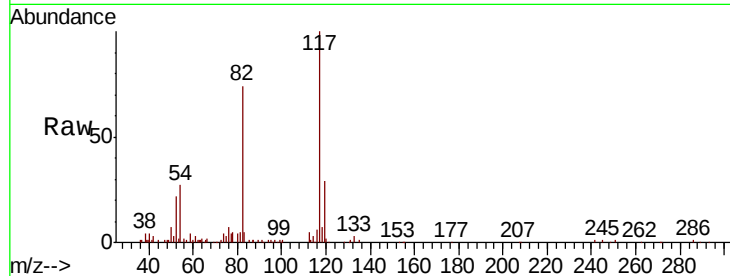
Tot Ion: 112 Resp: 1908

Ion Ratio Lower Upper

112 100

77 29.5 50.0 75.0#

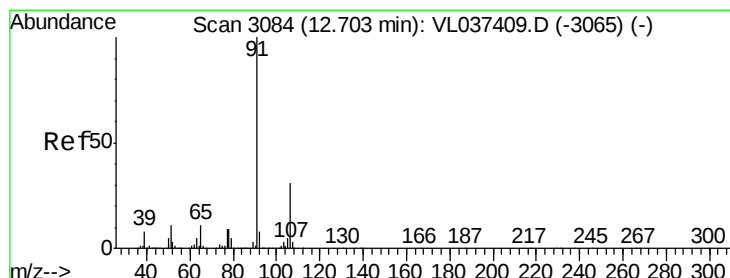
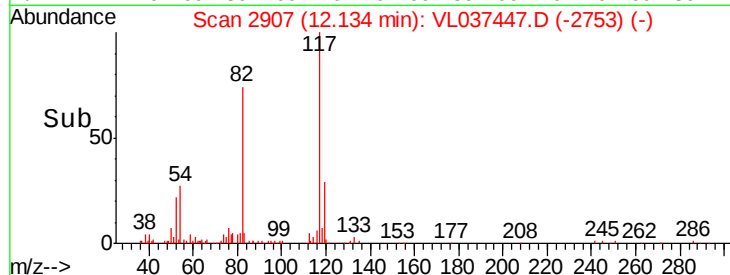
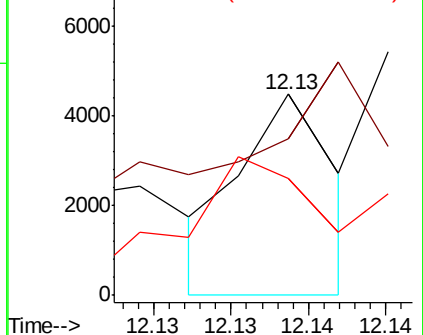
114 48.0 28.5 34.9#



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.016 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VL037447.D

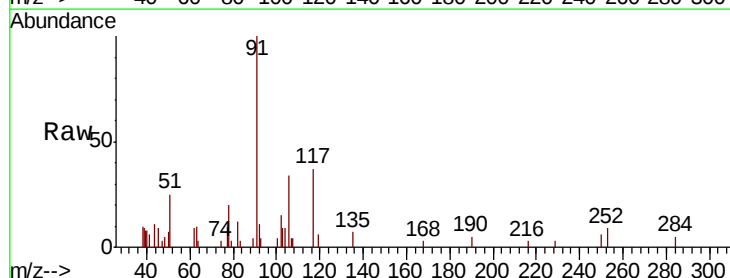
Acq: 13 Aug 2021 14:00

Tgt Ion: 91 Resp: 7263

Ion Ratio Lower Upper

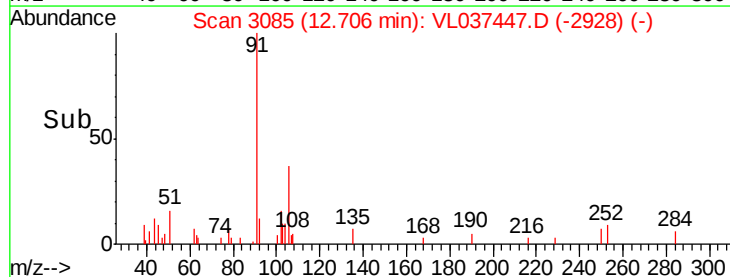
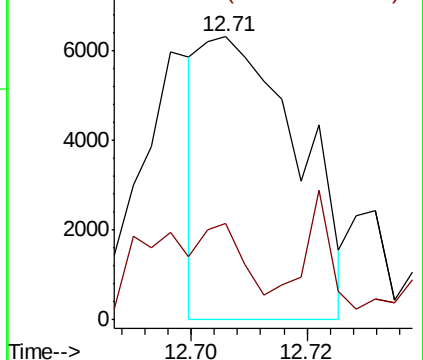
91 100

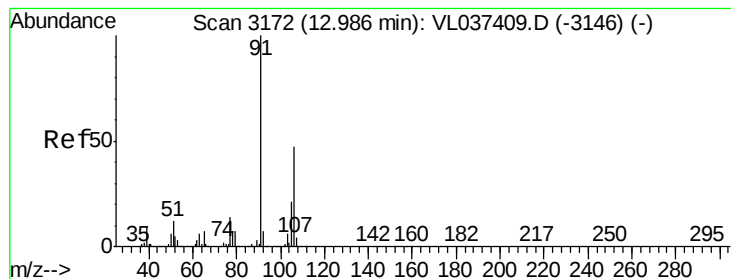
106 32.1 24.7 37.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.007 ppbv

RT: 12.98 min Scan# 3171

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

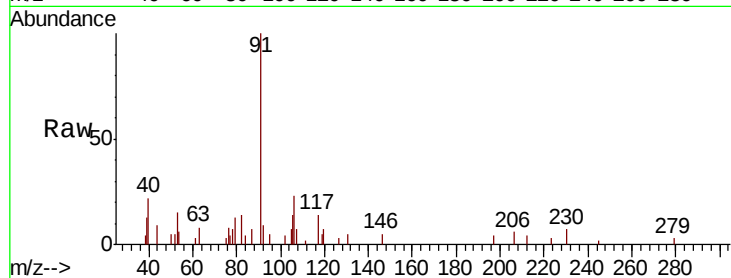
ClientSampleId :

Tot Ion: 91 Resp: 2786

Ion Ratio Lower Upper

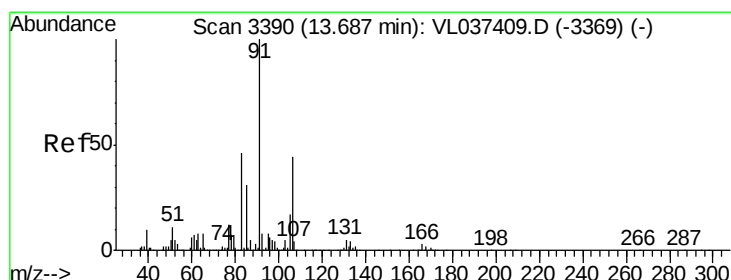
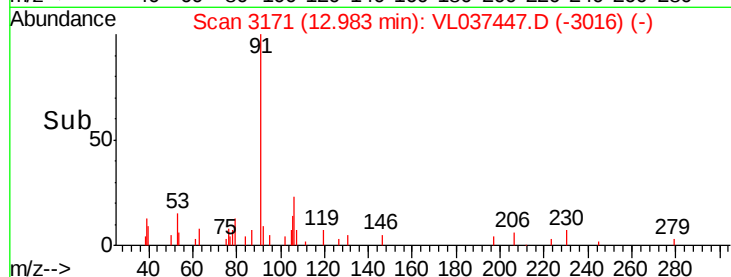
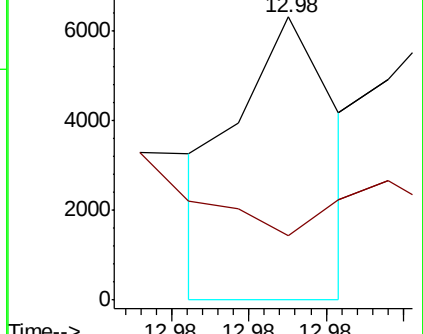
91 100

106 254.8 36.6 54.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.018 ppbv

RT: 13.68 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VL037447.D

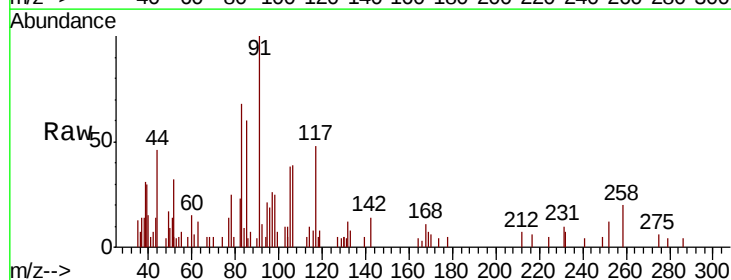
Acq: 13 Aug 2021 14:00

Tgt Ion: 91 Resp: 6606

Ion Ratio Lower Upper

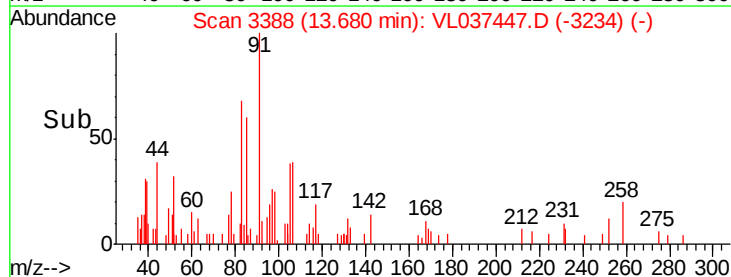
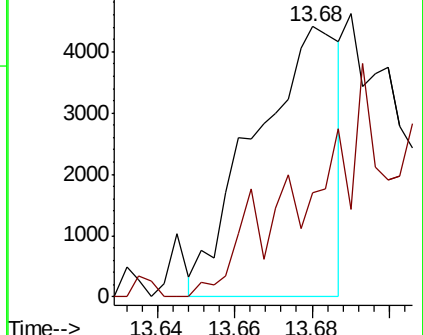
91 100

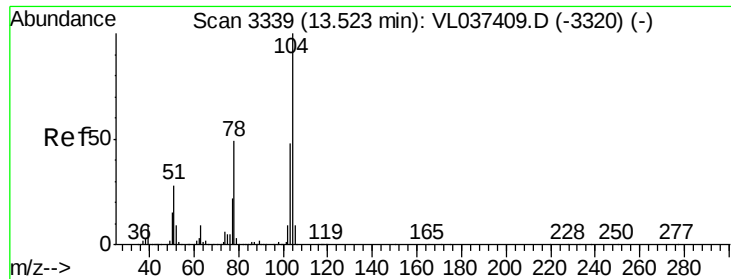
106 0.0 24.1 72.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.006 ppbv

RT: 13.53 min Scan# 3340

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

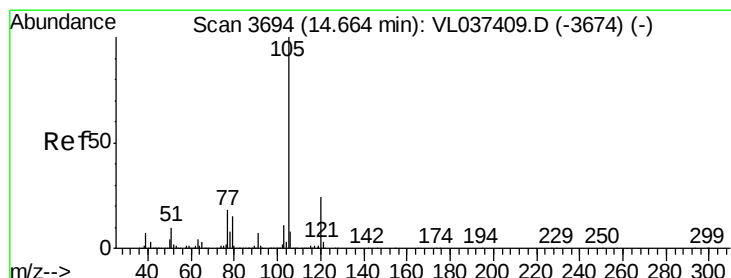
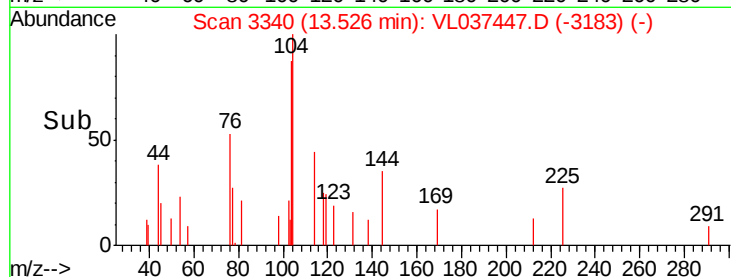
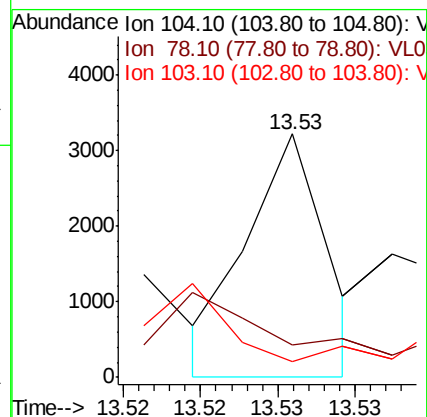
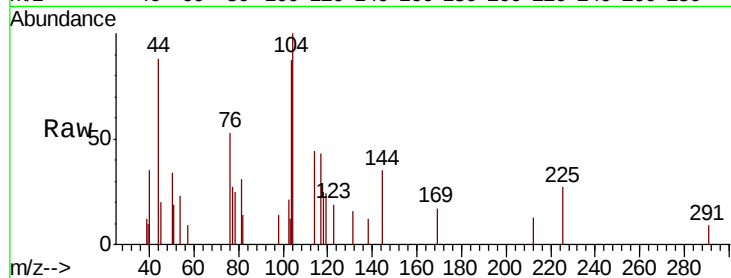
Tot Ion:104 Resp: 1152

Ion Ratio Lower Upper

104 100

78 0.0 41.5 62.3#

103 185.0 40.2 60.2#



#62

Isopropylbenzene

Concen: 0.008 ppbv

RT: 14.65 min Scan# 3691

Delta R.T. -0.01 min

Lab File: VL037447.D

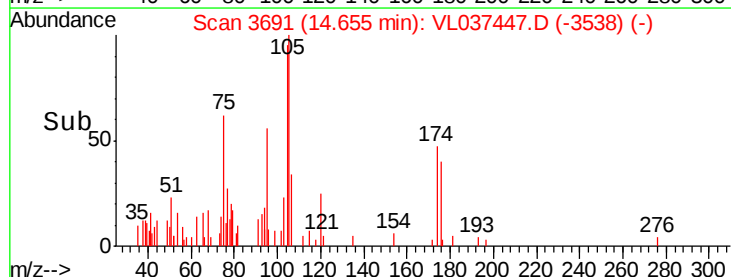
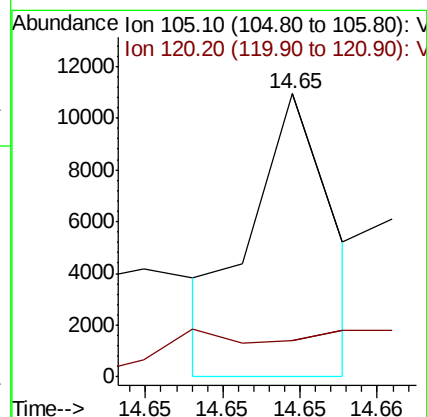
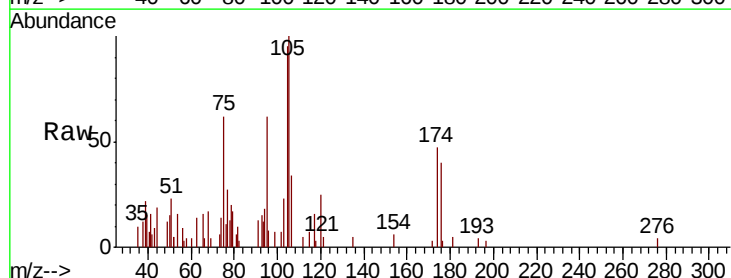
Acq: 13 Aug 2021 14:00

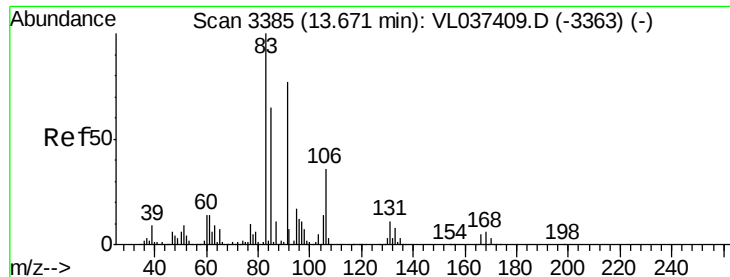
Tgt Ion:105 Resp: 3951

Ion Ratio Lower Upper

105 100

120 0.0 21.6 32.4#

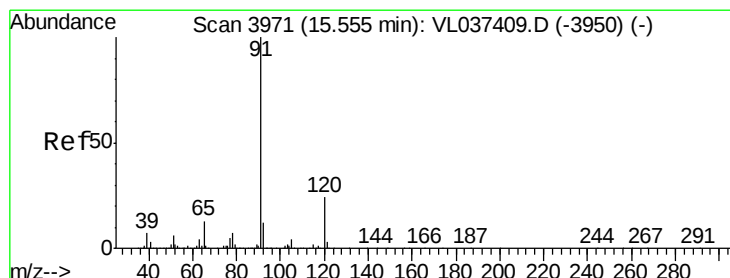
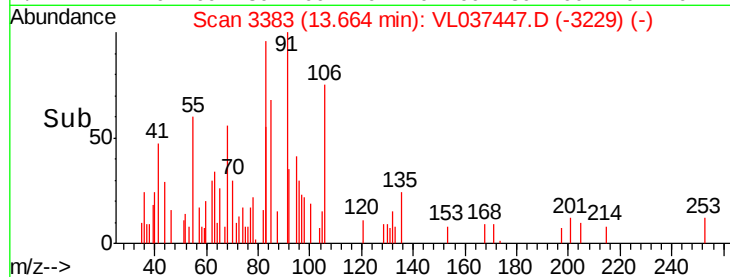
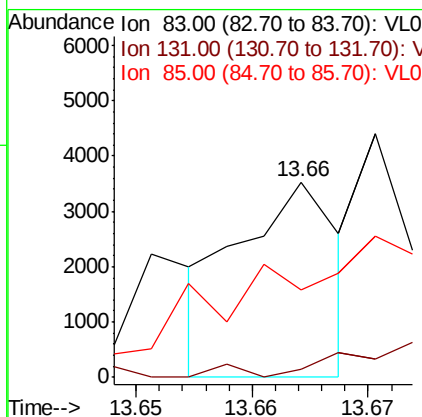
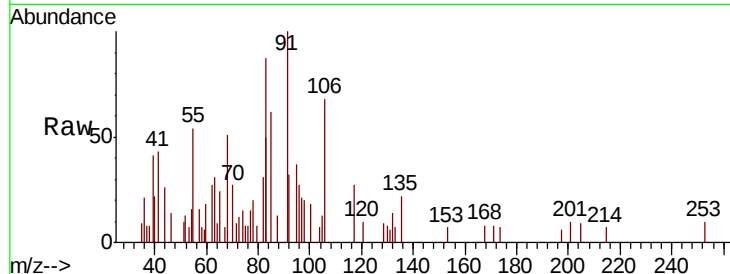




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.008 ppbv
 RT: 13.66 min Scan# 3383
 Delta R.T. -0.01 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

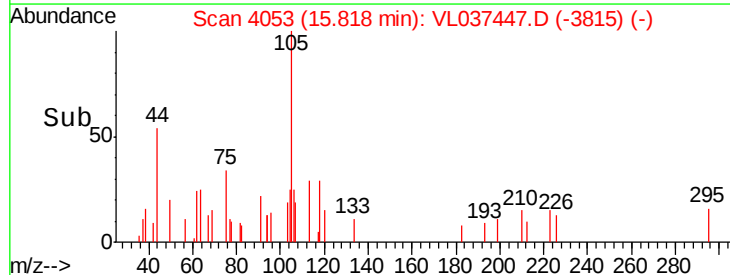
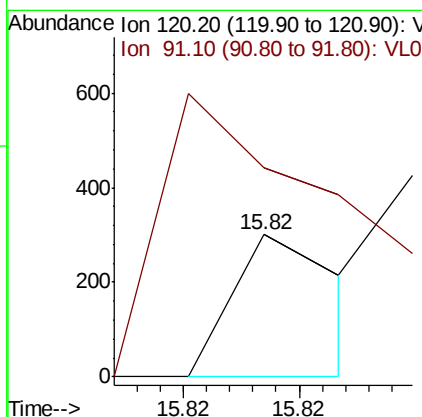
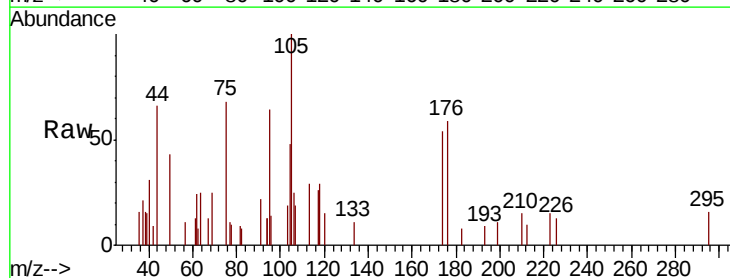
Instrument :
 MSVOA_L
 ClientSampled :

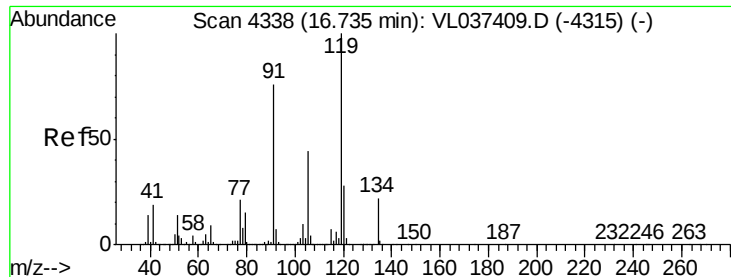
Tot Ion: 83 Resp: 2135
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.1 15.4#
 85 0.0 33.4 100.2#



#64
 n-propylbenzene
 Concen: 0.001 ppbv
 RT: 15.82 min Scan# 4053
 Delta R.T. 0.26 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Tgt Ion:120 Resp: 100
 Ion Ratio Lower Upper
 120 100
 91 559.0 388.4 582.6





#65

tert-Butylbenzene

Concen: 0.005 ppbv

RT: 16.73 min Scan# 4337

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampleId :

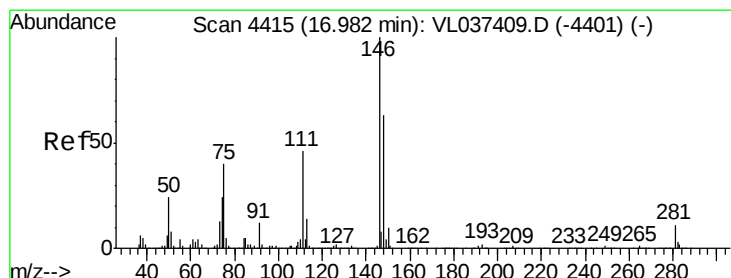
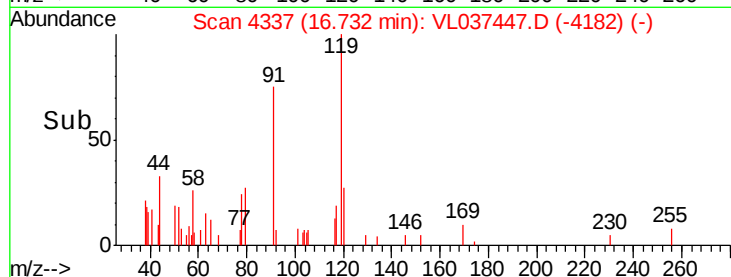
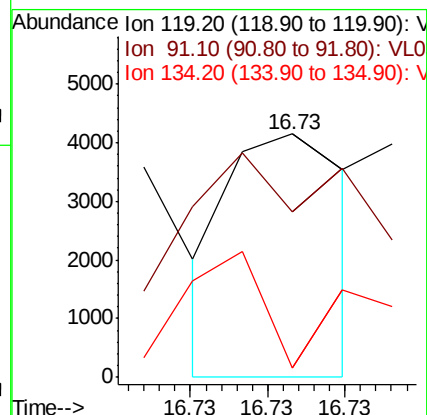
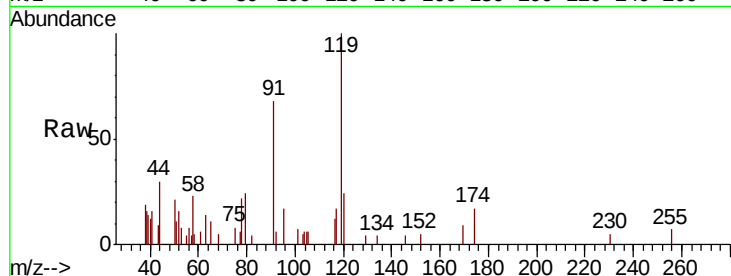
Tot Ion:119 Resp: 2220

Ion Ratio Lower Upper

119 100

91 0.0 62.2 93.4#

134 166.0 16.1 24.1#



#66

Benzyl Chloride

Concen: 0.026 ppbv

RT: 16.99 min Scan# 4416

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

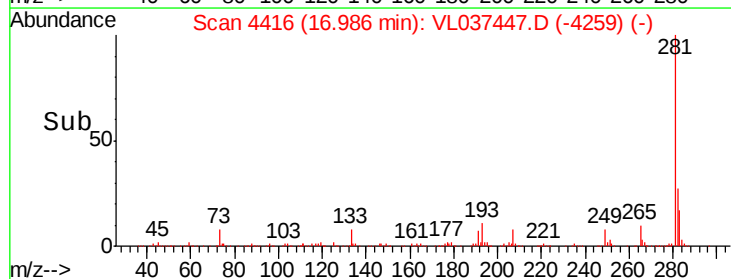
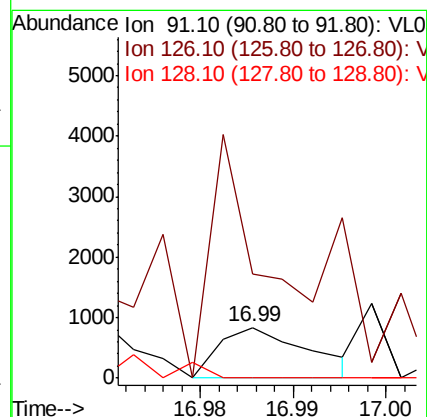
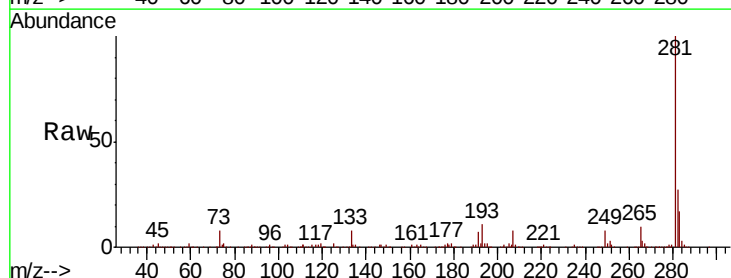
Tgt Ion: 91 Resp: 556

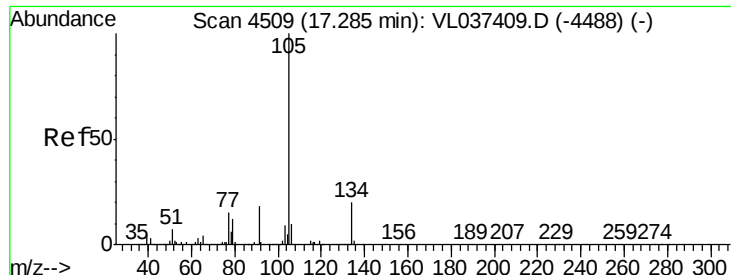
Ion Ratio Lower Upper

91 100

126 0.0 14.3 21.5#

128 0.0 4.6 7.0#





#67

sec-Butylbenzene

Concen: 0.006 ppbv

RT: 17.28 min Scan# 4507

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

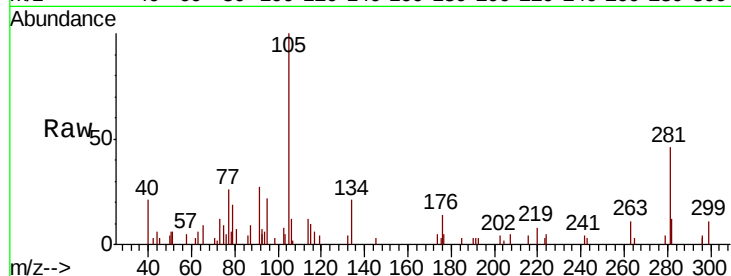
ClientSampled :

Tot Ion:105 Resp: 3544

Ion Ratio Lower Upper

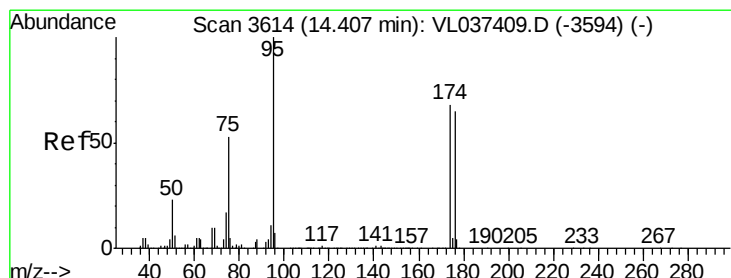
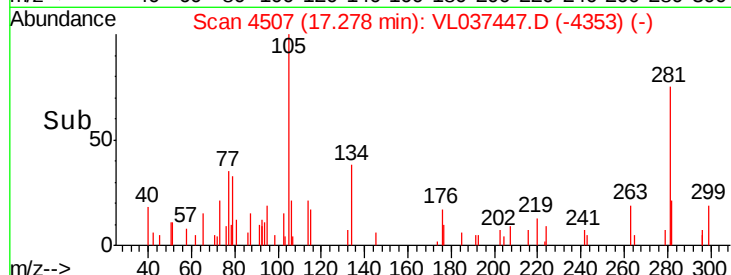
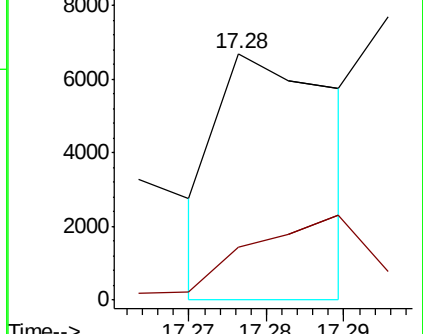
105 100

134 0.0 15.4 23.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.833 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

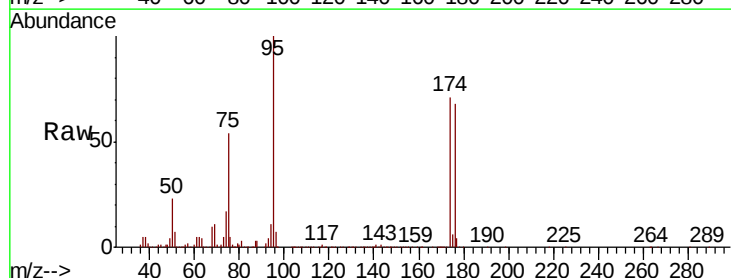
Tgt Ion: 95 Resp: 2301753

Ion Ratio Lower Upper

95 100

174 77.1 59.6 89.4

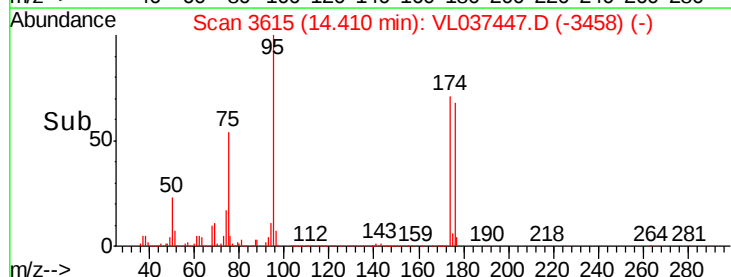
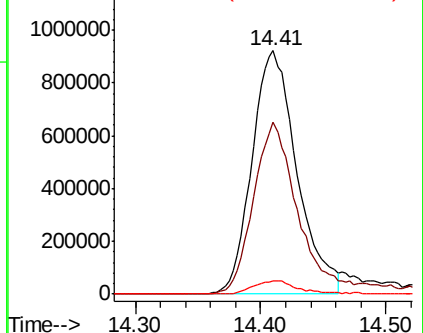
175 5.6 4.3 6.5

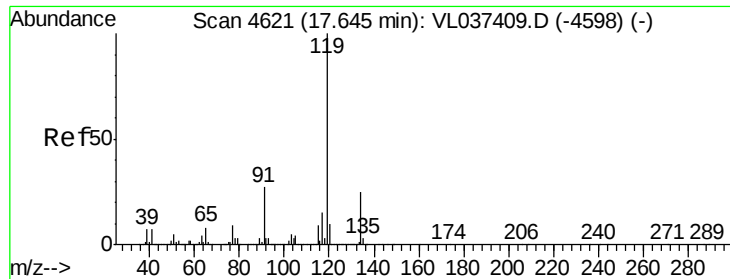


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.004 ppbv

RT: 17.64 min Scan# 4618

Delta R.T. -0.01 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

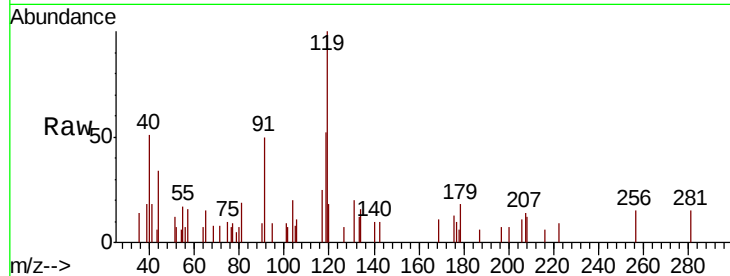
Tot Ion: 119 Resp: 2121

Ion Ratio Lower Upper

119 100

134 0.0 20.6 31.0#

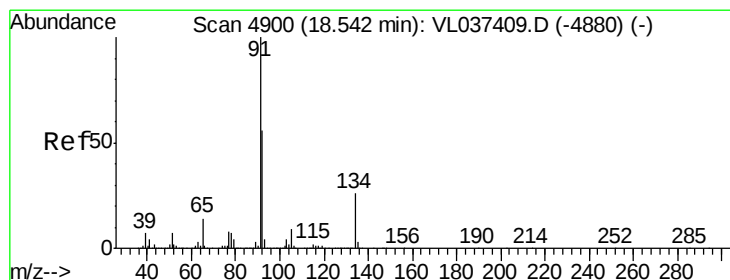
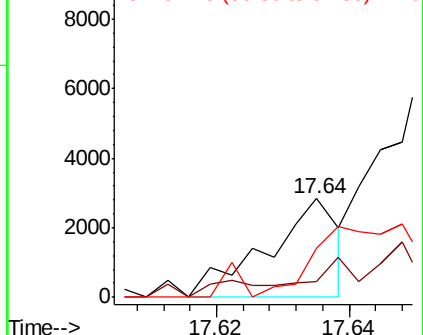
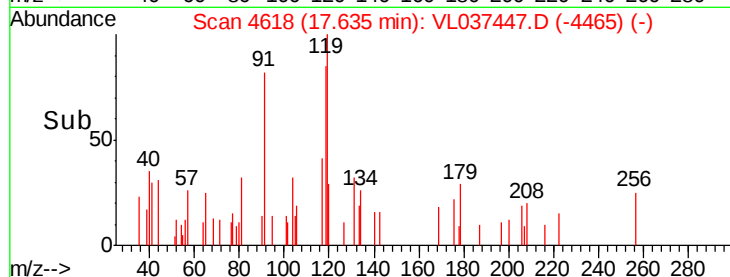
91 0.0 22.4 33.6#



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 0.006 ppbv

RT: 18.54 min Scan# 4899

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

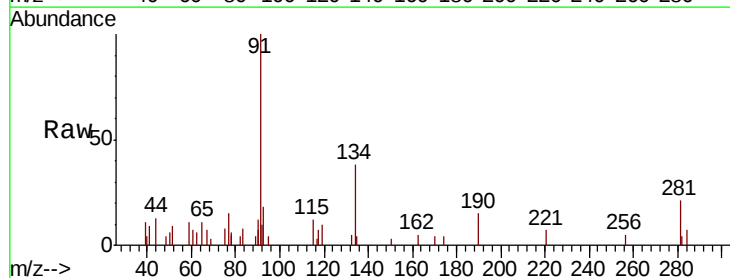
Tgt Ion: 91 Resp: 3012

Ion Ratio Lower Upper

91 100

92 0.0 44.2 66.2#

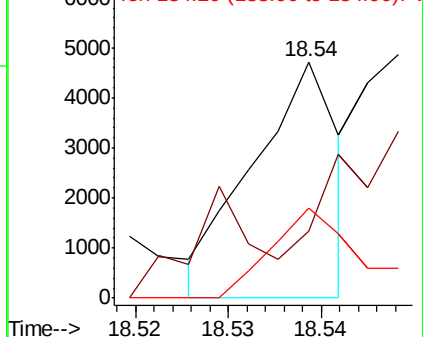
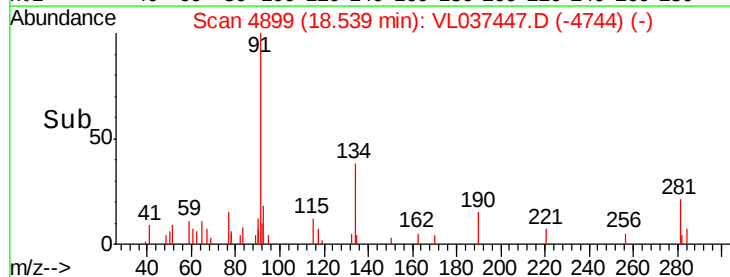
134 54.5 19.5 29.3#

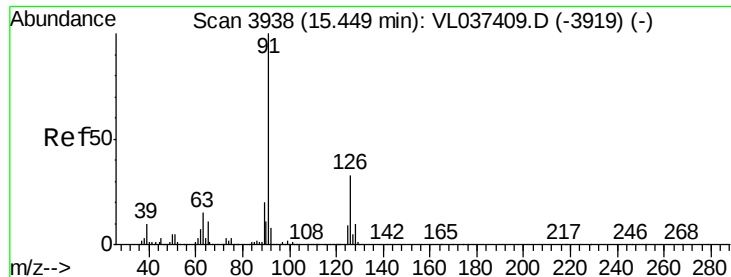


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V

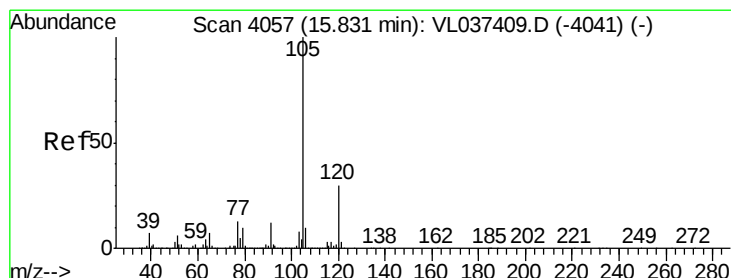
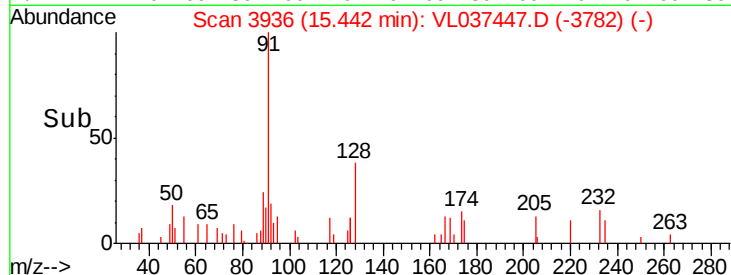
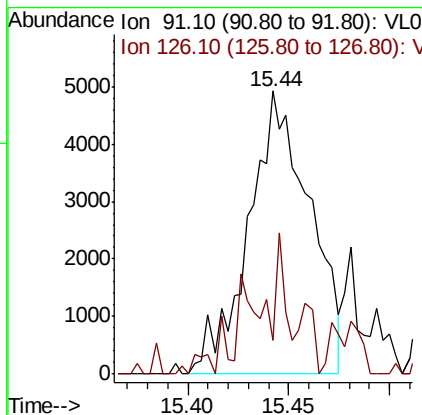
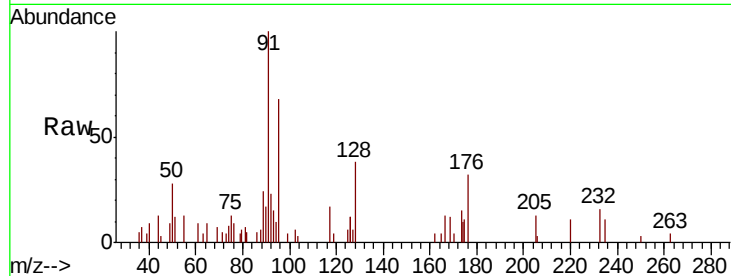




#71
 2-Chlorotoluene
 Concen: 0.028 ppbv
 RT: 15.44 min Scan# 3936
 Delta R.T. -0.01 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

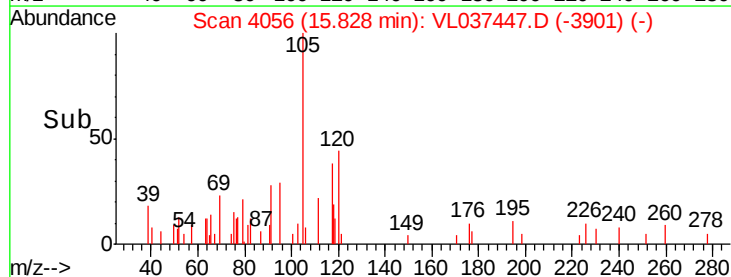
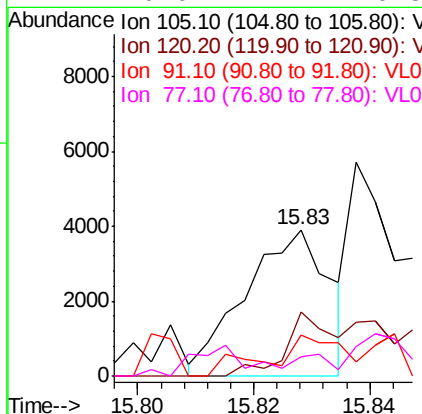
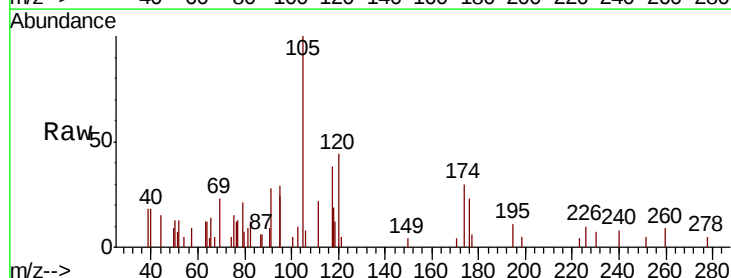
Instrument :
 MSVOA_L
 ClientSampleId :

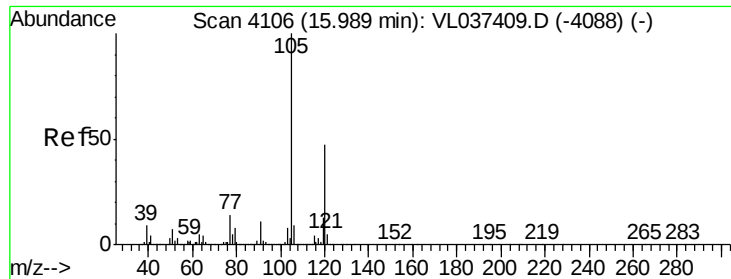
Tot Ion: 91 Resp: 10324
 Ion Ratio Lower Upper
 91 100
 126 32.4 13.5 53.9



#72
 4-Ethyltoluene
 Concen: 0.009 ppbv
 RT: 15.83 min Scan# 4056
 Delta R.T. -0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Tgt Ion:105 Resp: 3908
 Ion Ratio Lower Upper
 105 100
 120 0.0 25.0 37.4#
 91 0.0 11.2 16.8#
 77 0.0 11.2 16.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.004 ppbv

RT: 15.99 min Scan# 4105

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

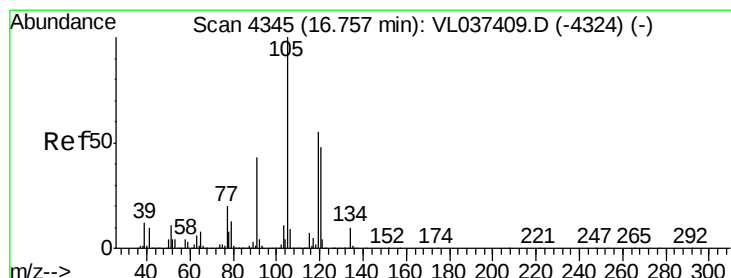
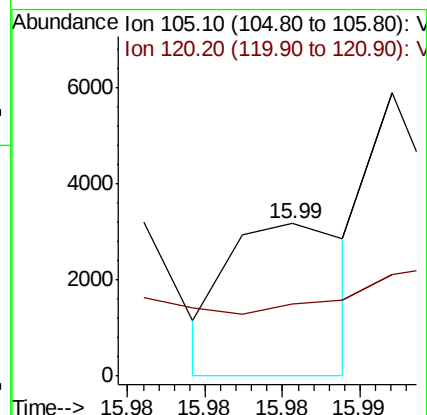
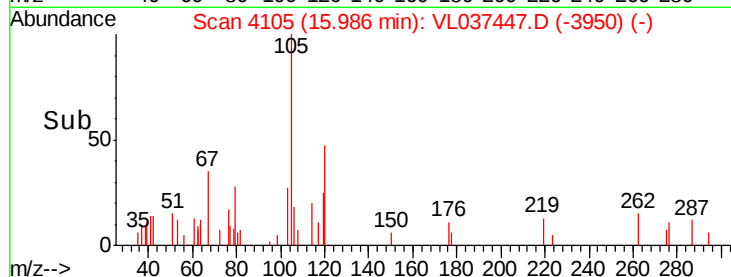
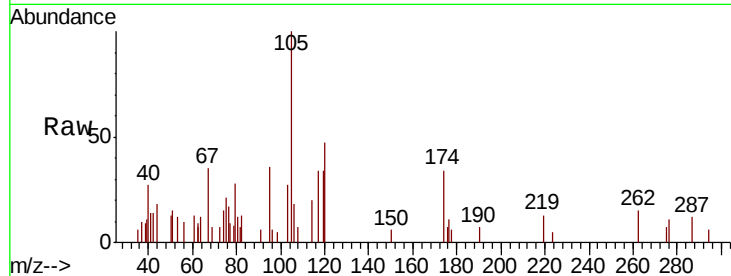
ClientSampleId :

Tot Ion:105 Resp: 1726

Ion Ratio Lower Upper

105 100

120 0.0 37.4 56.0#



#74

1,2,4-Trimethylbenzene

Concen: 0.008 ppbv

RT: 16.76 min Scan# 4345

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Tgt Ion:105 Resp: 3078

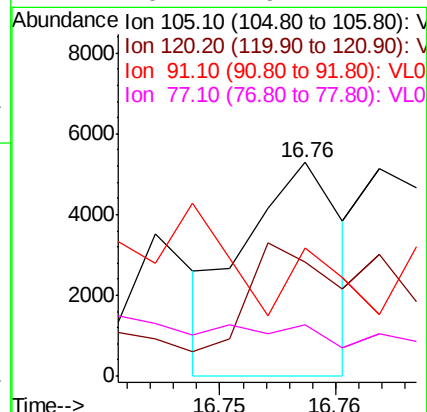
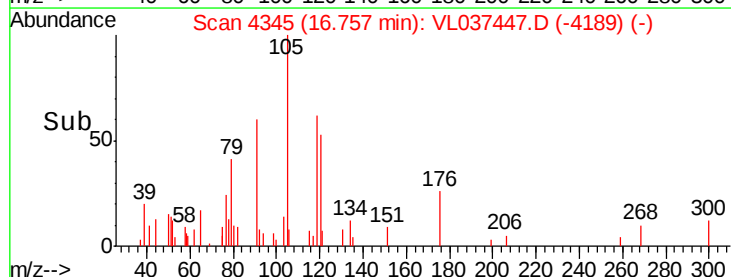
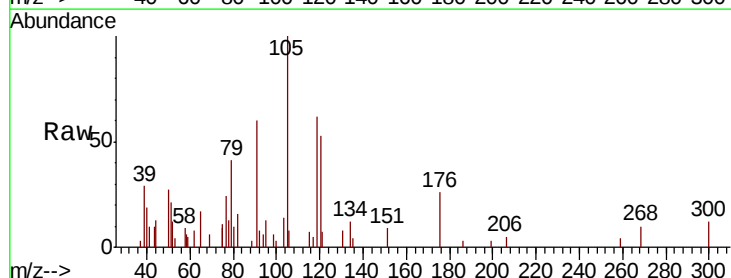
Ion Ratio Lower Upper

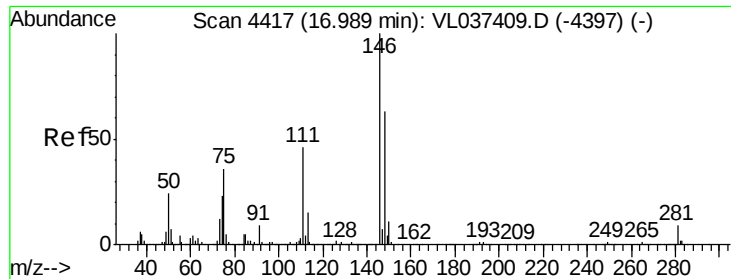
105 100

120 70.2 38.2 57.2#

91 23.3 35.4 53.2#

77 9.7 16.2 24.2#





#75

1,3-Dichlorobenzene

Concen: 0.013 ppbv

RT: 16.99 min Scan# 4418

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

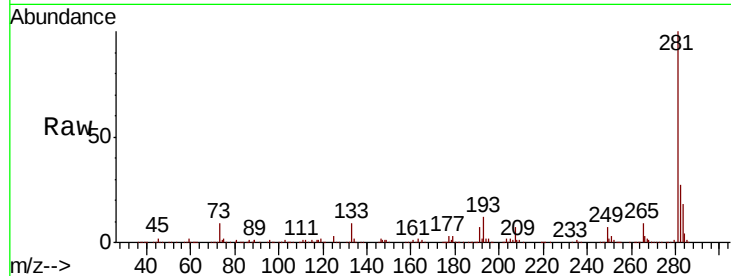
Tot Ion:146 Resp: 3268

Ion Ratio Lower Upper

146 100

111 391.3 22.9 68.7#

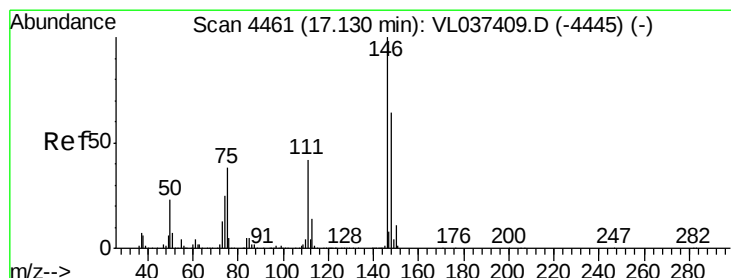
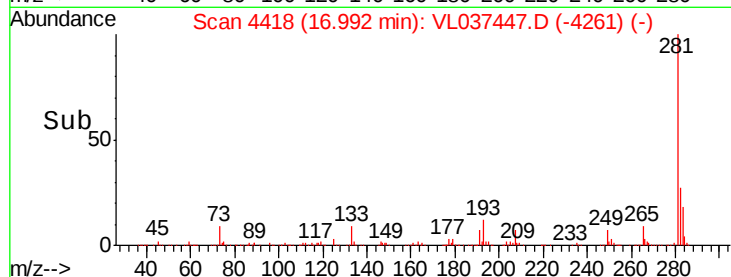
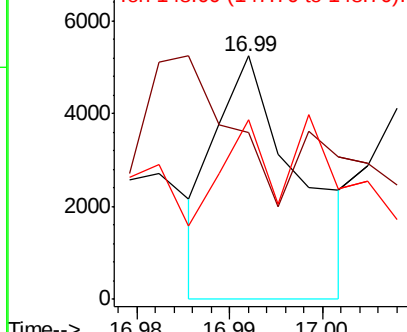
148 262.7 32.0 96.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.006 ppbv

RT: 17.13 min Scan# 4462

Delta R.T. 0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

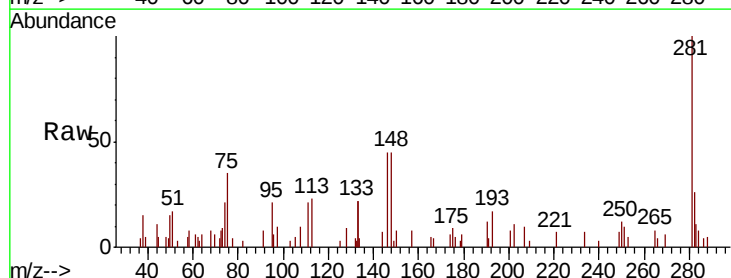
Tgt Ion:146 Resp: 1389

Ion Ratio Lower Upper

146 100

111 329.7 22.8 68.4#

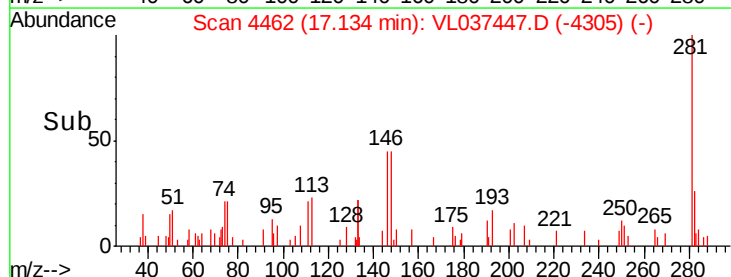
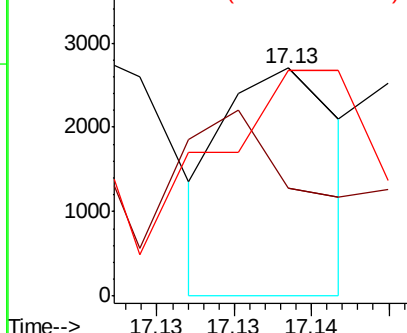
148 488.5 34.0 102.0#

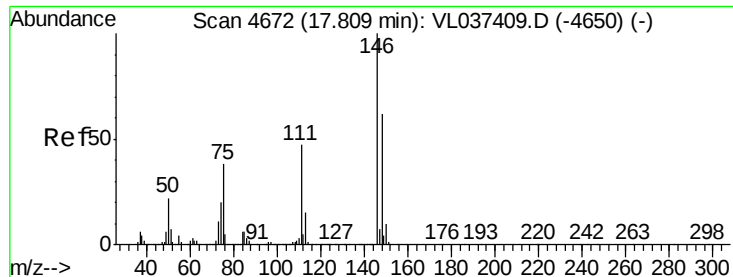


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

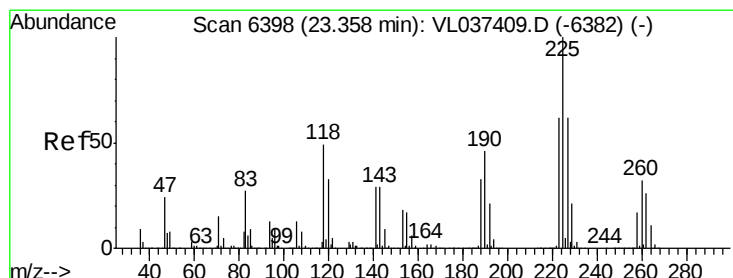
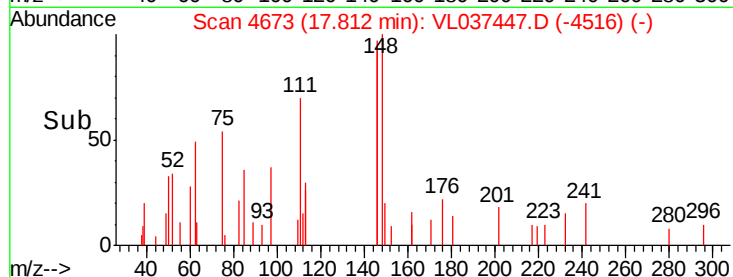
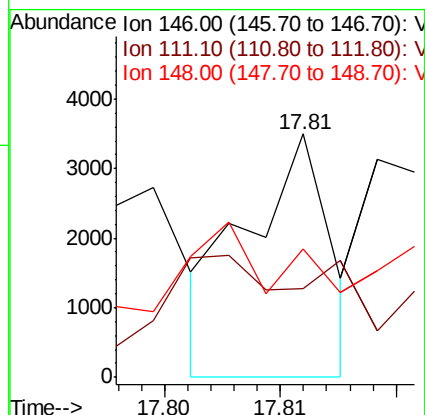
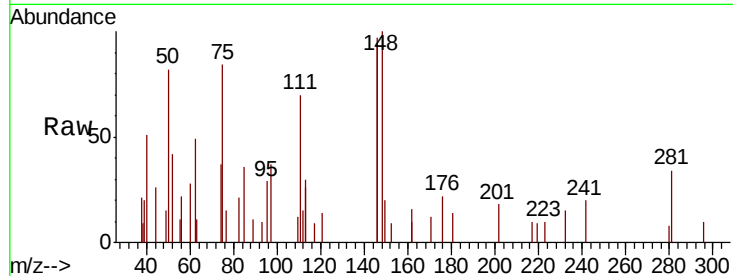




#77
 1,2-Dichlorobenzene
 Concen: 0.007 ppbv
 RT: 17.81 min Scan# 4673
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

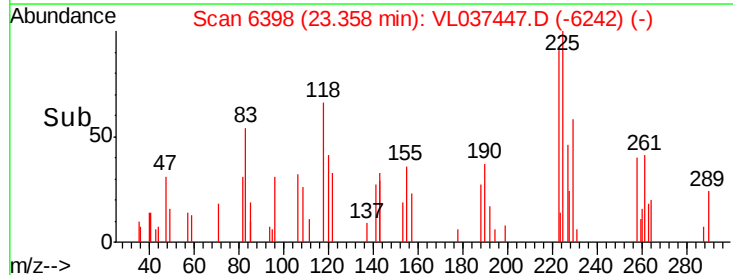
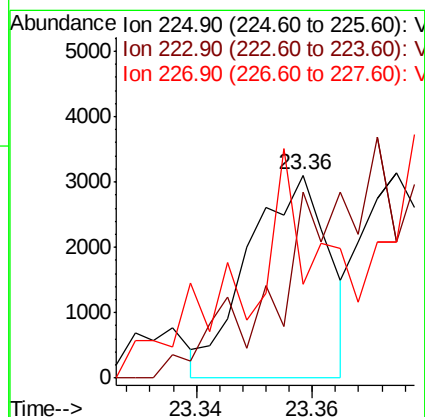
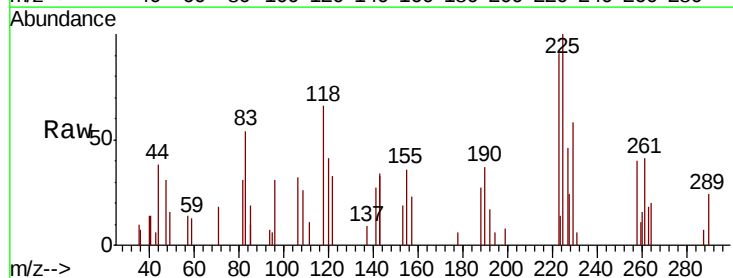
Instrument :
 MSVOA_L
 ClientSampled :

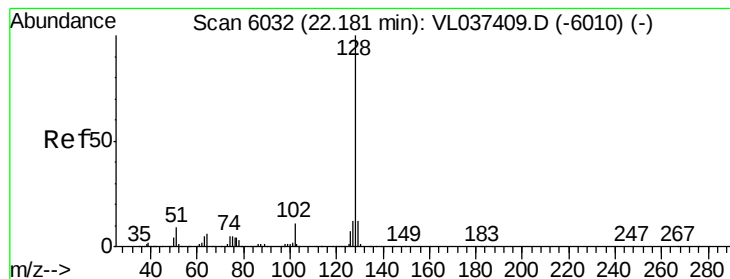
Tot Ion:146 Resp: 1763
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.8 71.5#
 148 128.8 32.5 97.4#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.015 ppbv
 RT: 23.36 min Scan# 6398
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Tgt Ion:225 Resp: 2973
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.2 76.8#
 227 0.0 52.2 78.4#





#79

Naphthalene

Concen: 0.005 ppbv

RT: 22.18 min Scan# 6031

Delta R.T. -0.00 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

Instrument :

MSVOA_L

ClientSampled :

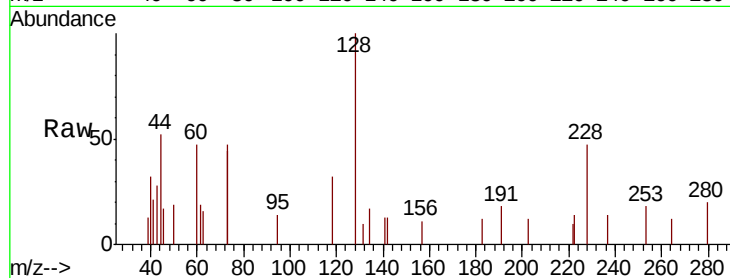
Tot Ion:128 Resp: 1008

Ion Ratio Lower Upper

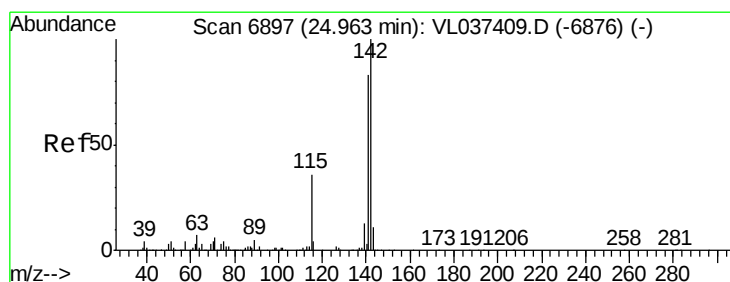
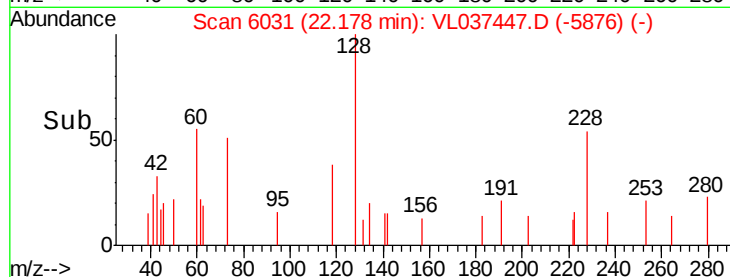
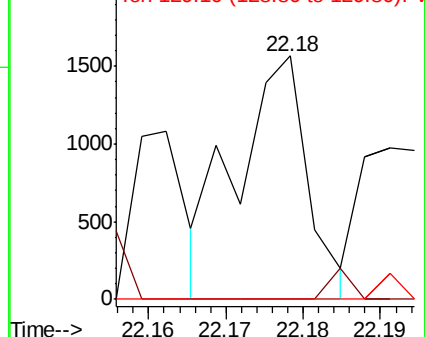
128 100

127 0.0 9.9 14.9#

129 0.0 9.4 14.0#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.001 ppbv

RT: 24.99 min Scan# 6905

Delta R.T. 0.03 min

Lab File: VL037447.D

Acq: 13 Aug 2021 14:00

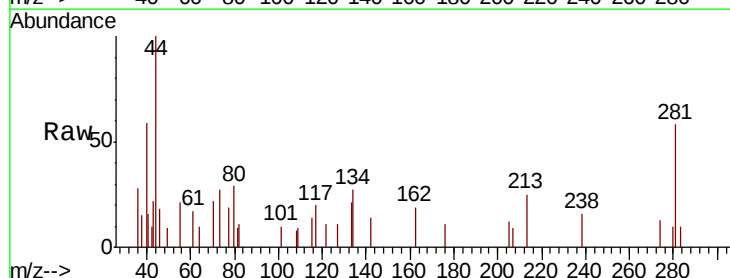
Tgt Ion:142 Resp: 54

Ion Ratio Lower Upper

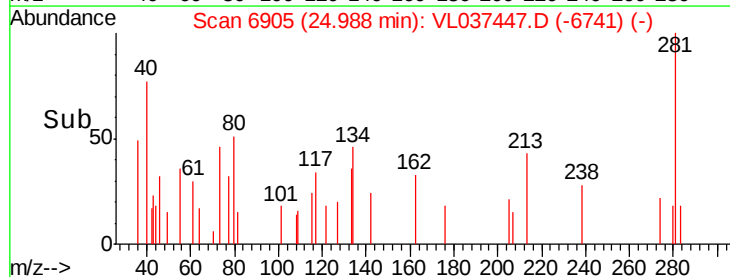
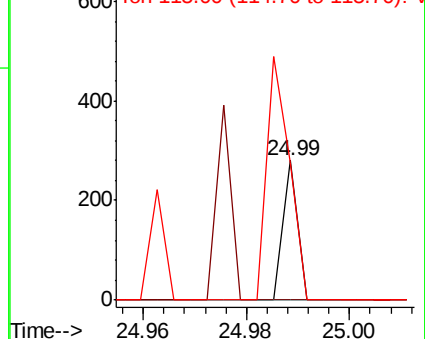
142 100

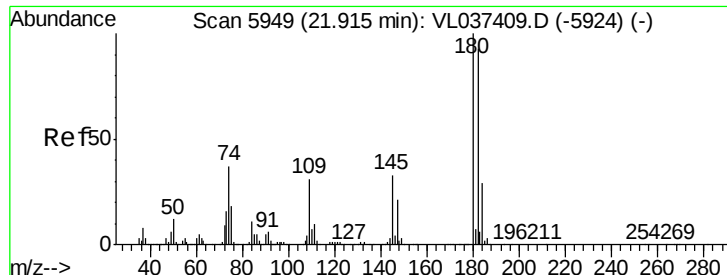
141 0.0 68.7 103.1#

115 274.1 32.7 49.1#



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.002 ppbv
 RT: 21.92 min Scan# 5950
 Delta R.T. 0.00 min
 Lab File: VL037447.D
 Acq: 13 Aug 2021 14:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:180 Resp: 373
 Ion Ratio Lower Upper
 180 100
 182 0.0 78.6 118.0#
 184 0.0 24.6 36.8#

