

Data File : VL037168.D
Acq On : 16 Jun 2021 11:56
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Jun 16 12:26:04 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 11:33:05 2021
QLast Update : Wed Jun 16 11:33:05 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1462169	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4404740	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3952533	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3027667	10.40	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	42054	0.181	ppbv	90
3) Chlorodifluoromethane	2.99	51	34655	0.126	ppbv	100
4) Chloromethane	3.14	50	12503	0.134	ppbv #	81
5) Vinyl Chloride	3.26	62	7149	0.079	ppbv #	84
6) Bromomethane	3.48	94	5615	0.098	ppbv #	60
7) Chloroethane	3.56	64	2664	0.076	ppbv	90
8) Dichlorotetrafluoroethane	3.19	85	32649	0.131	ppbv	100
9) Propene	3.02	41	17292	0.191	ppbv	97
10) Heptane	8.13	43	22016	0.102	ppbv #	76
11) Trichlorofluoromethane	3.95	101	29736	0.113	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.48	101	20258	0.112	ppbv #	82
15) Acetone	3.89	43	39826	0.228	ppbv #	14
16) 1,3-Butadiene	3.33	39	7649	0.081	ppbv #	36
18) 1,1-Dichloroethene	4.30	96	2323	0.028	ppbv	81
20) Methylene Chloride	4.35	84	10255	0.134	ppbv	91
21) Allyl Chloride	4.41	41	6128	0.052	ppbv #	18
22) trans-1,2-Dichloroethene	4.89	96	3885	0.049	ppbv #	83
24) 1,1-Dichloroethane	5.01	63	21515	0.117	ppbv #	88
25) Ethyl Acetate	5.70	43	16835	0.049	ppbv #	75
26) Hexane	5.70	57	18576	0.109	ppbv #	80
27) Carbon Disulfide	4.56	76	15122	0.087	ppbv #	70
28) Methyl tert-Butyl Ether	5.06	73	11935	0.056	ppbv #	35
29) Chloroform	5.76	83	32056	0.116	ppbv	100
30) Cyclohexane	7.14	84	6448	0.043	ppbv #	1
31) cis-1,2-Dichloroethene	5.56	61	13107	0.080	ppbv	95
32) 1,1,1-Trichloroethane	6.51	97	28800	0.114	ppbv	96
35) Carbon Tetrachloride	7.02	117	25970	0.096	ppbv	96
36) Benzene	6.90	78	39048	0.112	ppbv #	94
37) 1,2-Dichloroethane	6.32	62	11742	0.058	ppbv #	78
38) Trichloroethene	7.84	130	5324	0.035	ppbv #	14
39) 1,2-Dichloropropane	7.18	63	1048660	7.858	ppbv #	24
42) Bromodichloromethane	7.79	83	7797	0.028	ppbv	88
43) Methyl Methacrylate	8.03	69	4370	0.036	ppbv #	1
44) 2,2,4-Trimethylpentane	7.88	57	33203	0.057	ppbv #	36
46) cis-1,3-Dichloropropene	8.71	75	5578	0.039	ppbv #	84
48) Dibromochloromethane	10.31	129	9449	0.039	ppbv #	19
49) Bromoform	13.05	173	4263	0.022	ppbv #	6
52) Tetrachloroethene	11.23	164	7100	0.049	ppbv	92
53) Toluene	9.81	91	30099	0.072	ppbv #	68
54) 1,2-Dibromoethane	10.61	107	15873	0.072	ppbv	86
56) 1,1,1,2-Tetrachloroethane	12.13	131	5860	0.034	ppbv #	1

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Instrument :
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ClientSampleId :
VSTDIC0.1

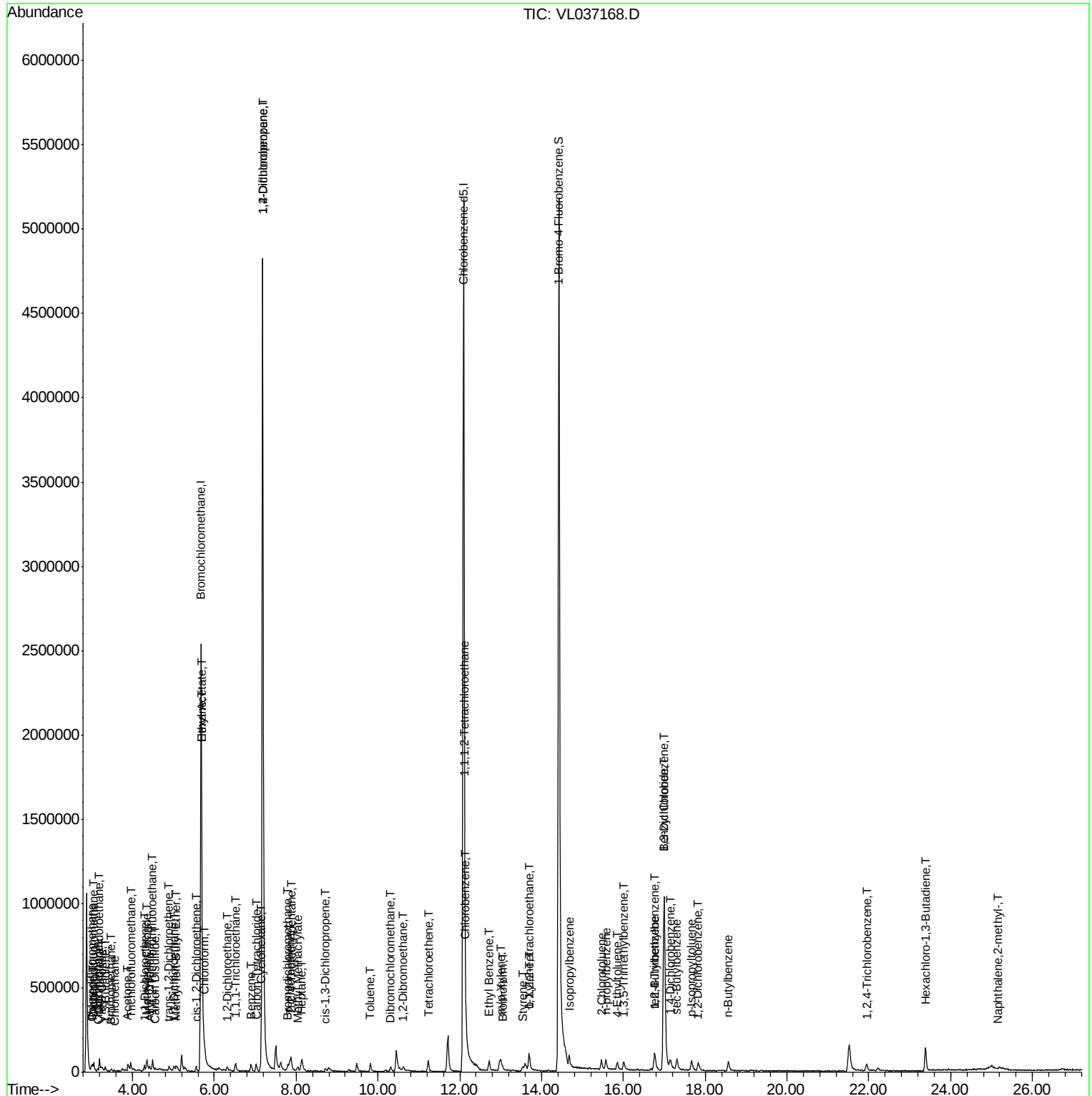
Quant Time: Jun 16 12:26:04 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 11:33:05 2021
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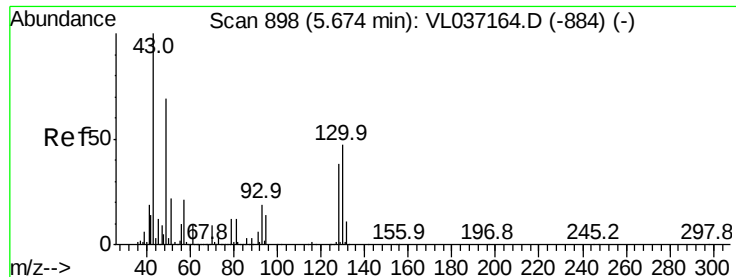
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) Chlorobenzene	12.15	112	17753	0.056	ppbv #	38
58) Ethyl Benzene	12.71	91	30731	0.057	ppbv	91
59) m/p-Xylene	13.00	91	32678	0.072	ppbv #	30
60) o-Xylene	13.70	91	15726	0.036	ppbv #	1
61) Styrene	13.53	104	6322	0.027	ppbv #	29
62) Isopropylbenzene	14.68	105	59423	0.095	ppbv	95
63) 1,1,2,2-Tetrachloroethane	13.69	83	17164	0.060	ppbv #	24
64) n-propylbenzene	15.57	120	3747	0.024	ppbv #	1
65) tert-Butylbenzene	16.75	119	19822	0.035	ppbv #	20
66) Benzyl Chloride	16.99	91	540	0.022	ppbv #	1
67) sec-Butylbenzene	17.30	105	33366	0.045	ppbv #	57
69) p-Isopropyltoluene	17.66	119	23316	0.037	ppbv #	31
70) n-Butylbenzene	18.56	91	13849	0.024	ppbv #	32
71) 2-Chlorotoluene	15.46	91	39581	0.089	ppbv	91
72) 4-Ethyltoluene	15.85	105	35774	0.070	ppbv #	85
73) 1,3,5-Trimethylbenzene	16.01	105	19721	0.041	ppbv	90
74) 1,2,4-Trimethylbenzene	16.78	105	47075	0.096	ppbv #	84
75) 1,3-Dichlorobenzene	17.00	146	9514	0.032	ppbv #	1
76) 1,4-Dichlorobenzene	17.14	146	10690	0.036	ppbv #	1
77) 1,2-Dichlorobenzene	17.82	146	7422	0.025	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.37	225	8864	0.042	ppbv #	18
80) Naphthalene,2-methyl-	25.16	142	2067	0.029	ppbv	91
81) 1,2,4-Trichlorobenzene	21.94	180	8750	0.047	ppbv #	11

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

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VSTDIC0.1

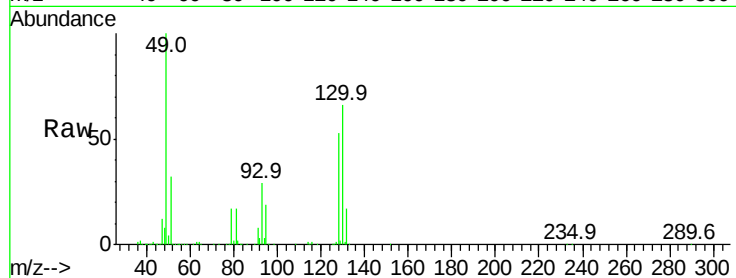
Tgt Ion: 49 Resp: 1462169

Ion Ratio Lower Upper

49 100

128 57.1 29.3 88.0

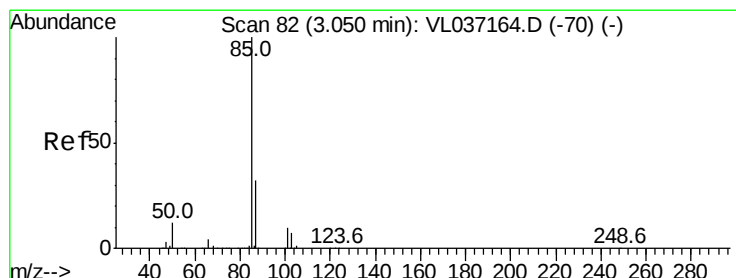
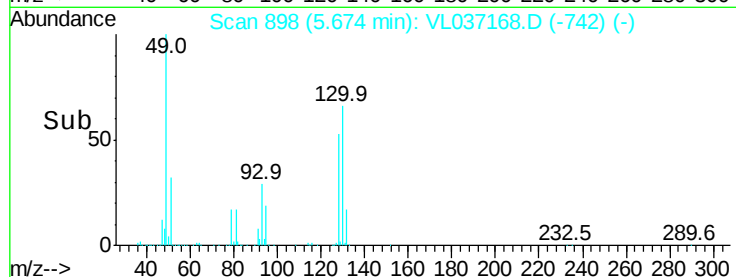
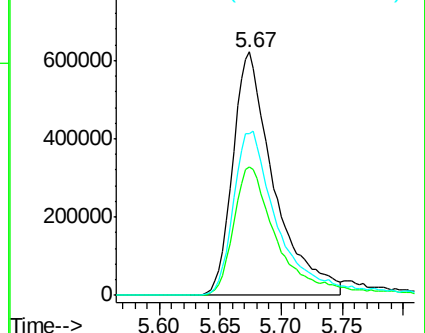
130 76.5 35.9 107.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.181 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037168.D

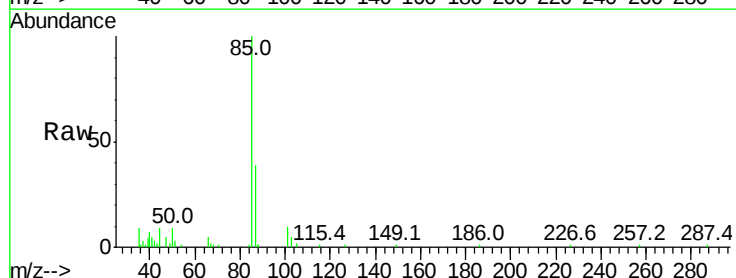
Acq: 16 Jun 2021 11:56

Tgt Ion: 85 Resp: 42054

Ion Ratio Lower Upper

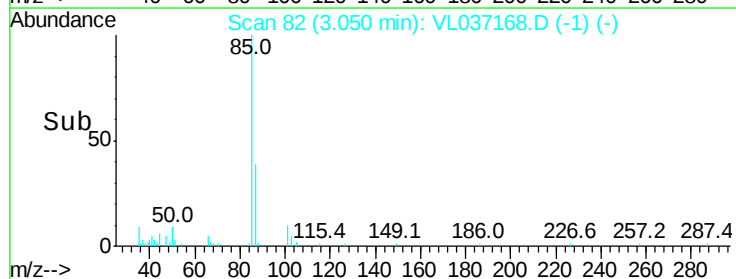
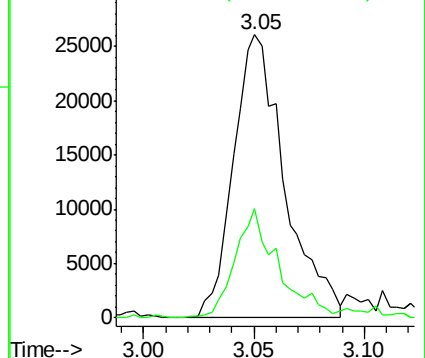
85 100

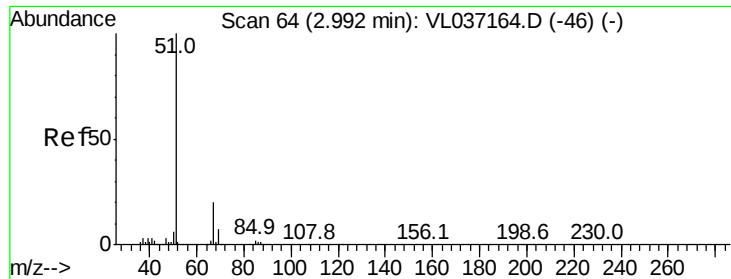
87 37.9 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.126 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

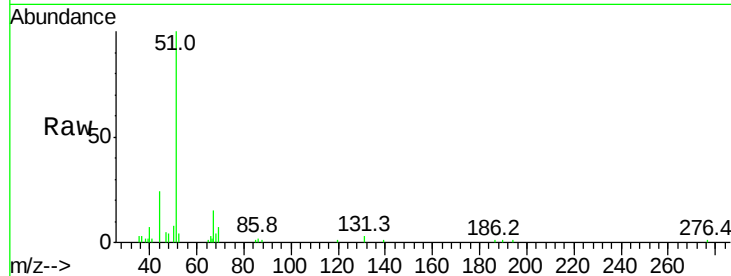
VSTDIC0.1

Tgt Ion: 51 Resp: 34655

Ion Ratio Lower Upper

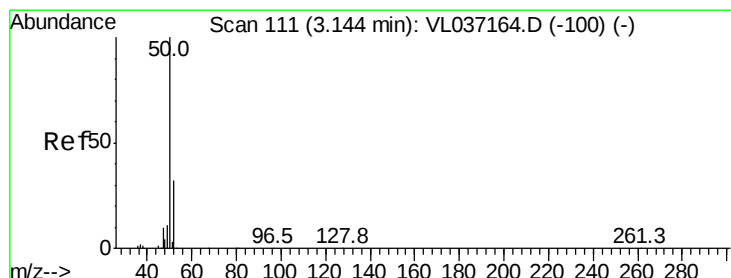
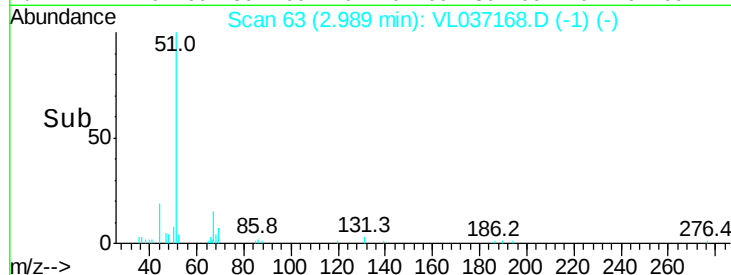
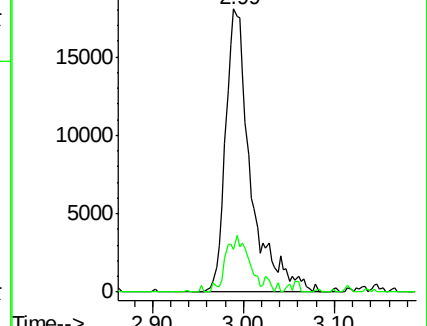
51 100

67 19.8 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.134 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL037168.D

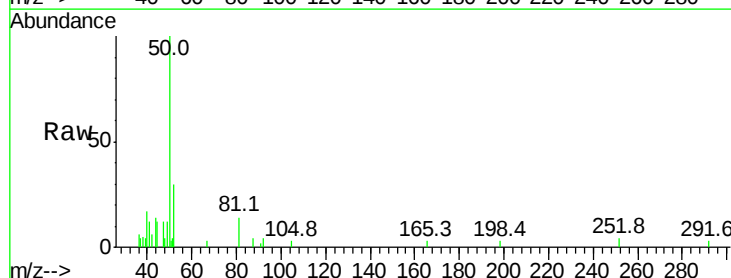
Acq: 16 Jun 2021 11:56

Tgt Ion: 50 Resp: 12503

Ion Ratio Lower Upper

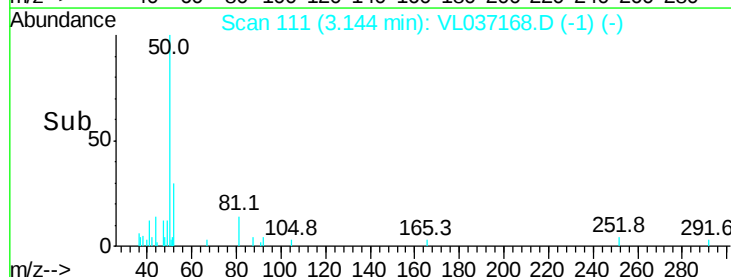
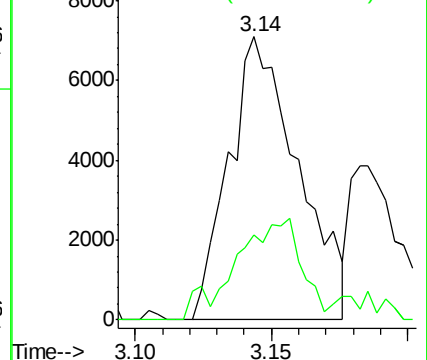
50 100

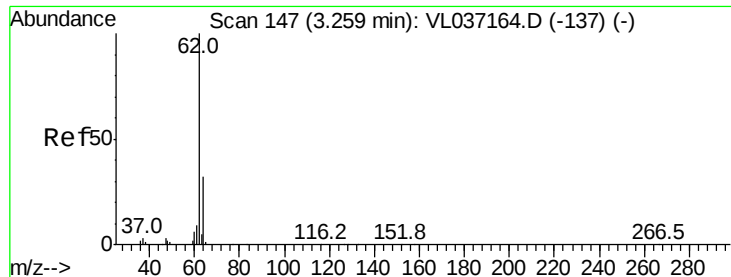
52 21.7 25.8 38.8#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.079 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

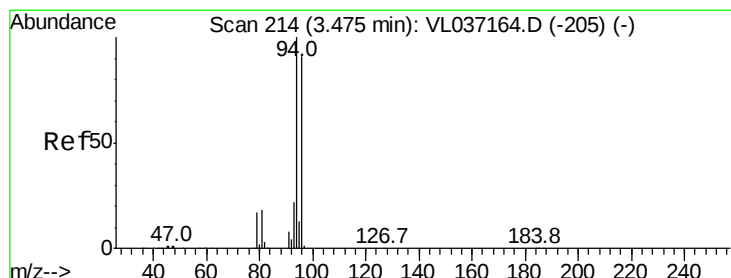
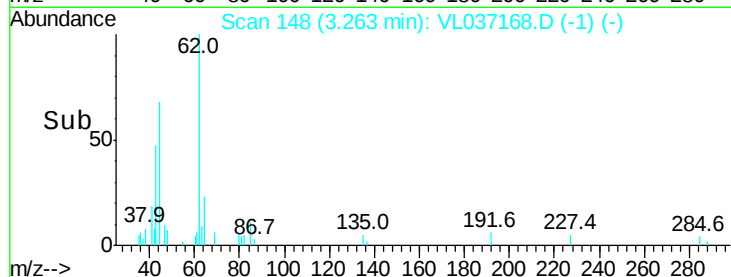
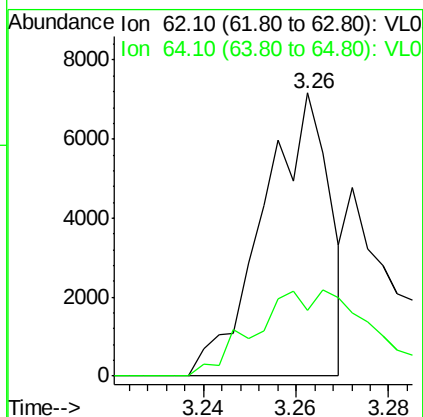
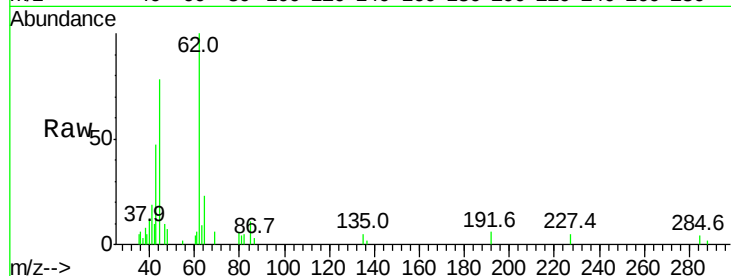
VSTDIC0.1

Tgt Ion: 62 Resp: 7149

Ion Ratio Lower Upper

62 100

64 23.1 25.6 38.4#



#6

Bromomethane

Concen: 0.098 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.01 min

Lab File: VL037168.D

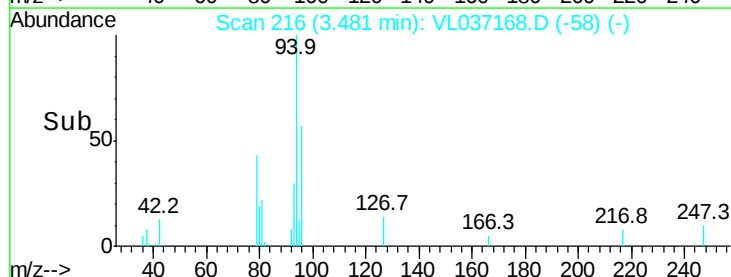
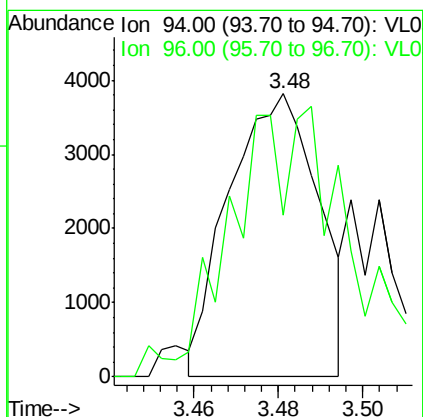
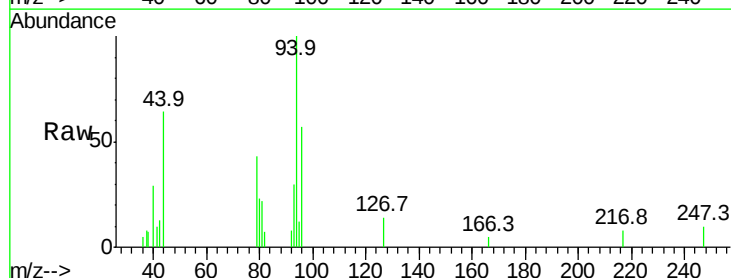
Acq: 16 Jun 2021 11:56

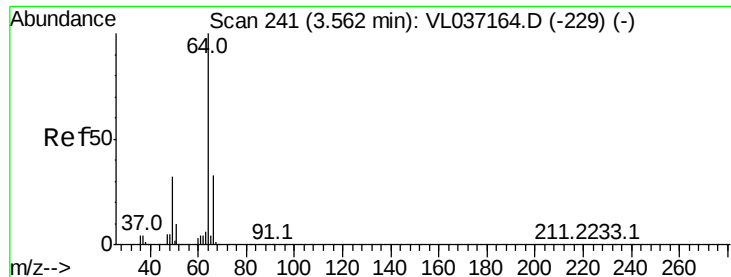
Tgt Ion: 94 Resp: 5615

Ion Ratio Lower Upper

94 100

96 52.9 72.6 108.8#





#7

Chloroethane

Concen: 0.076 ppbv

RT: 3.56 min Scan# 242

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

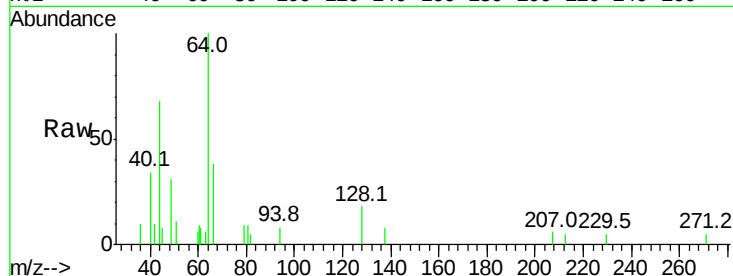
VSTDIC0.1

Tgt Ion: 64 Resp: 2664

Ion Ratio Lower Upper

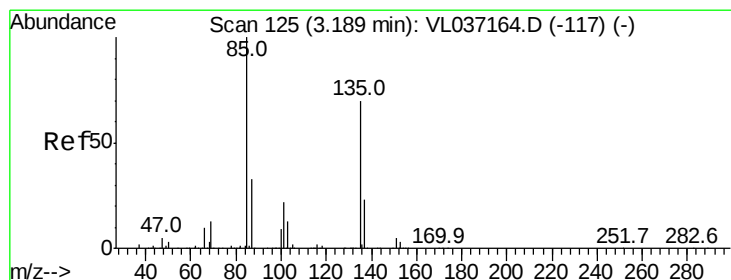
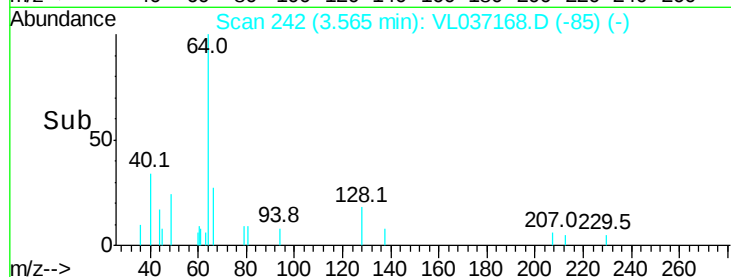
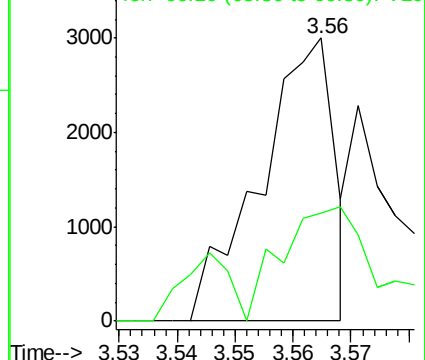
64 100

66 38.3 26.2 39.4



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.131 ppbv

RT: 3.19 min Scan# 124

Delta R.T. -0.00 min

Lab File: VL037168.D

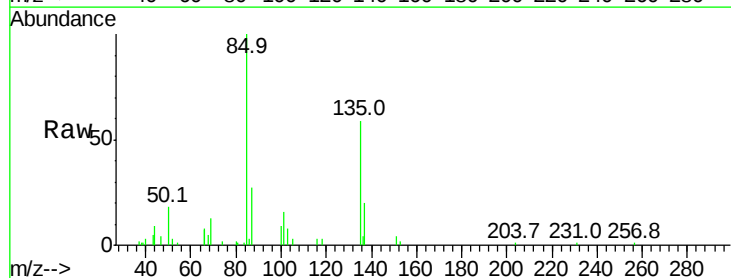
Acq: 16 Jun 2021 11:56

Tgt Ion: 85 Resp: 32649

Ion Ratio Lower Upper

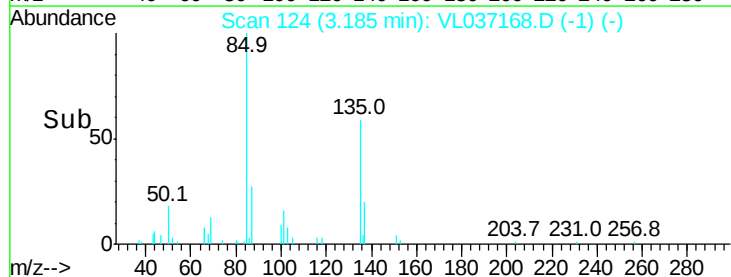
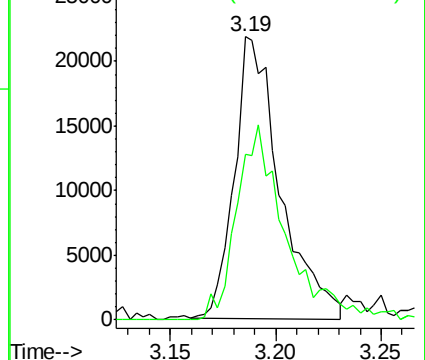
85 100

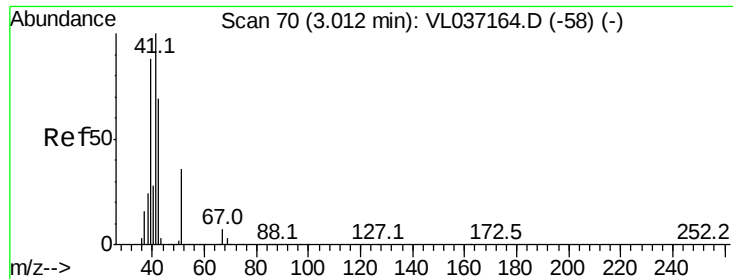
135 75.8 60.4 90.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): VL0





#9

Propene

Concen: 0.191 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

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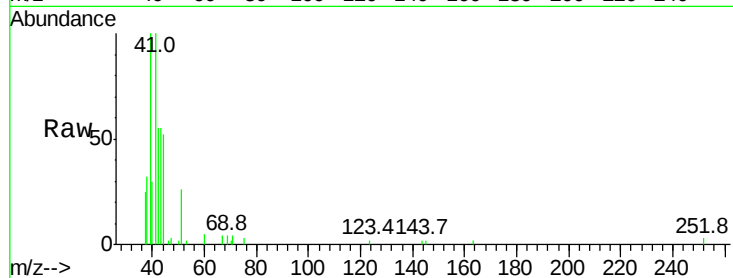
VSTDIC0.1

Tgt Ion: 41 Resp: 17292

Ion Ratio Lower Upper

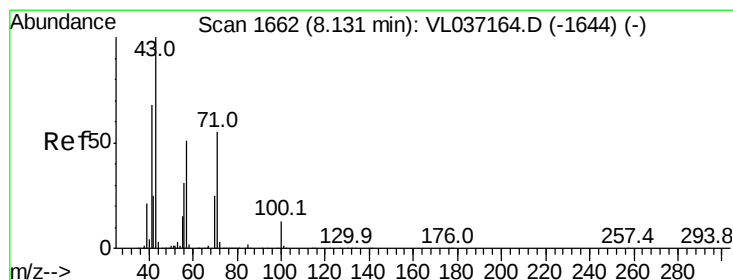
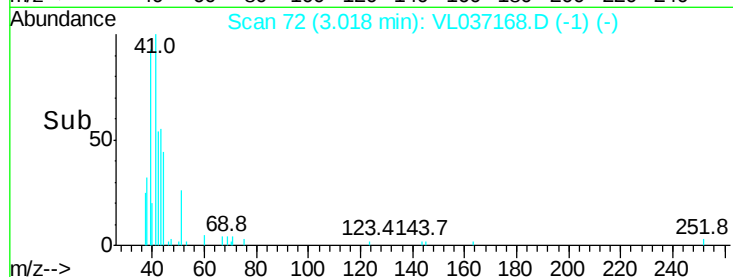
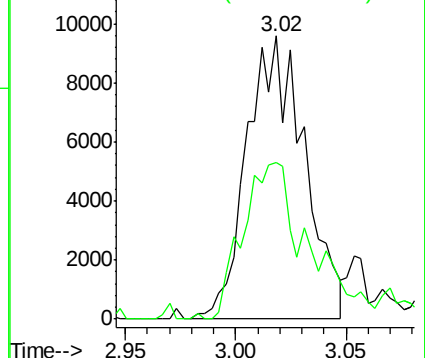
41 100

42 70.2 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.102 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL037168.D

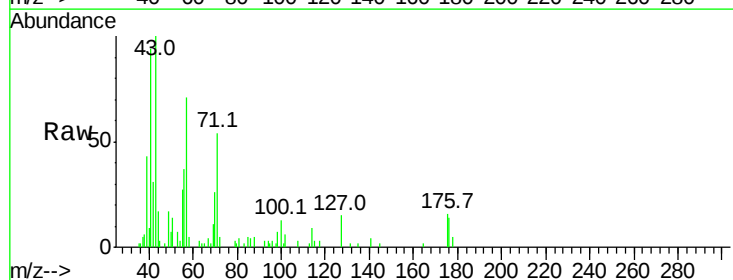
Acq: 16 Jun 2021 11:56

Tgt Ion: 43 Resp: 22016

Ion Ratio Lower Upper

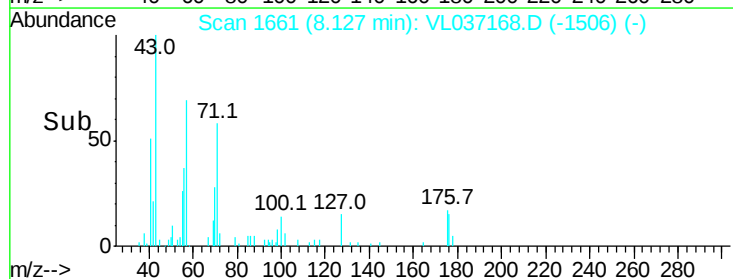
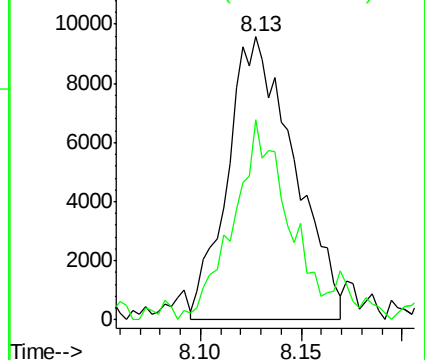
43 100

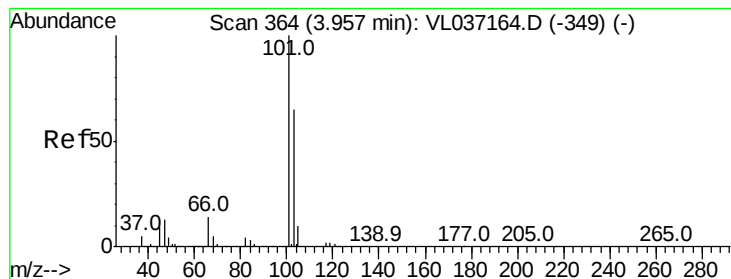
57 67.3 40.6 61.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.113 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

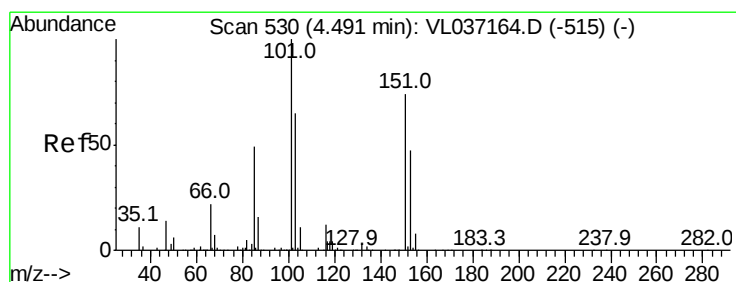
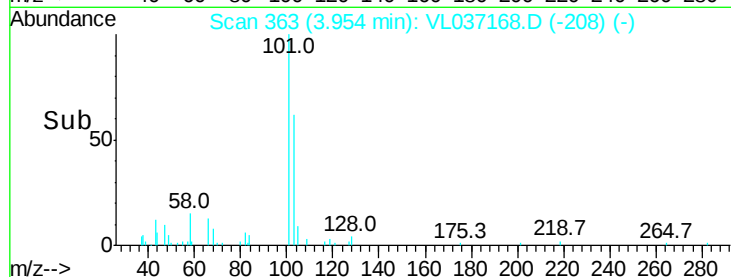
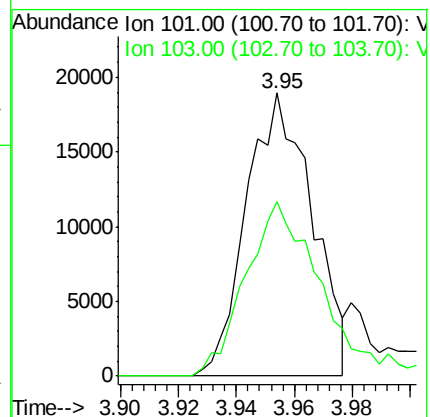
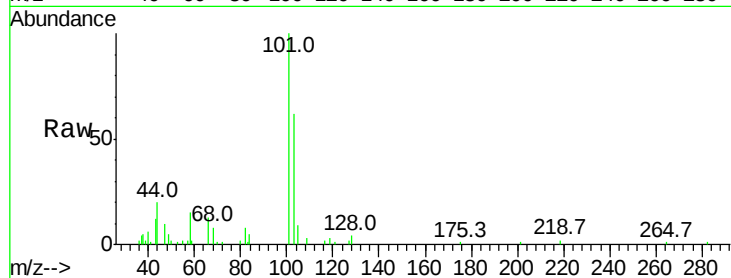
VSTDIC0.1

Tgt Ion:101 Resp: 29736

Ion Ratio Lower Upper

101 100

103 61.9 52.2 78.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.112 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.01 min

Lab File: VL037168.D

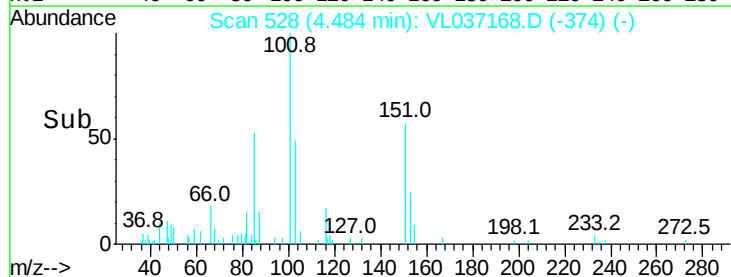
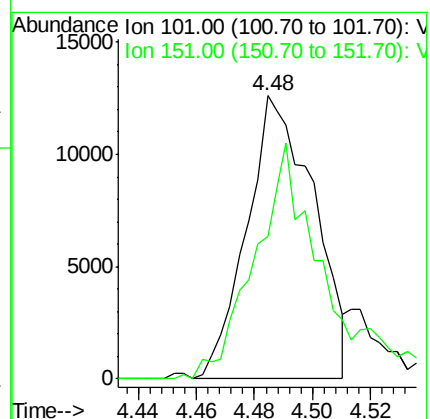
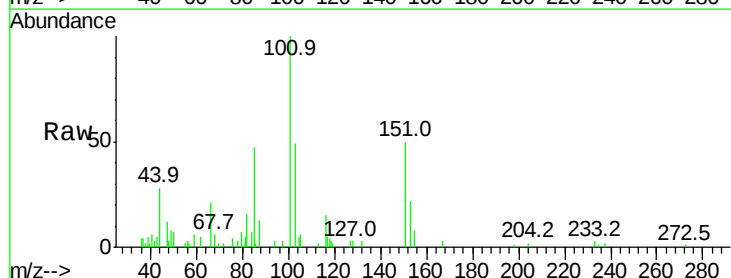
Acq: 16 Jun 2021 11:56

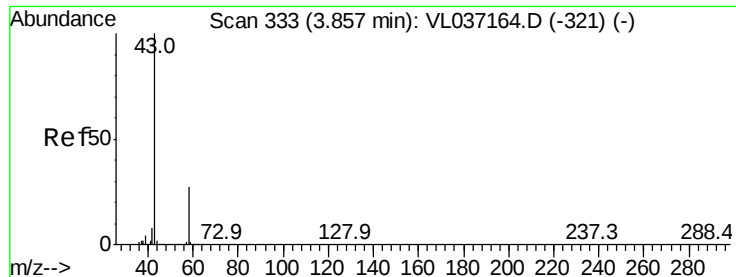
Tgt Ion:101 Resp: 20258

Ion Ratio Lower Upper

101 100

151 89.1 59.1 88.7#





#15

Acetone

Concen: 0.228 ppbv

RT: 3.89 min Scan# 343

Delta R.T. 0.03 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

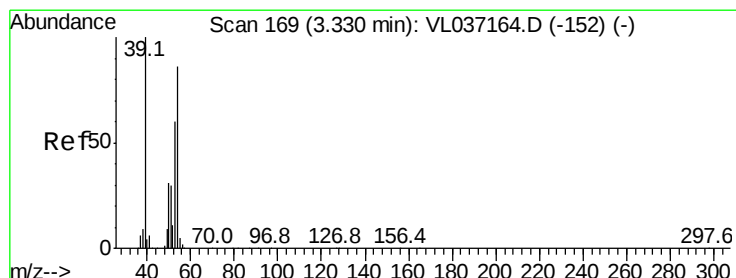
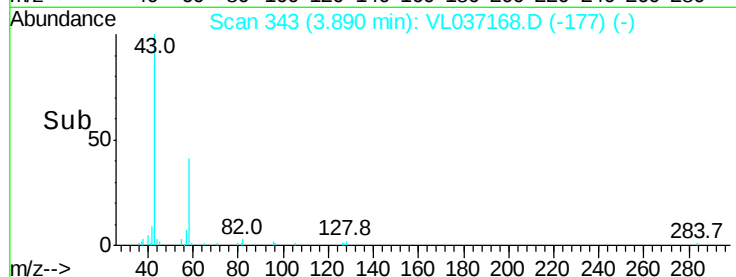
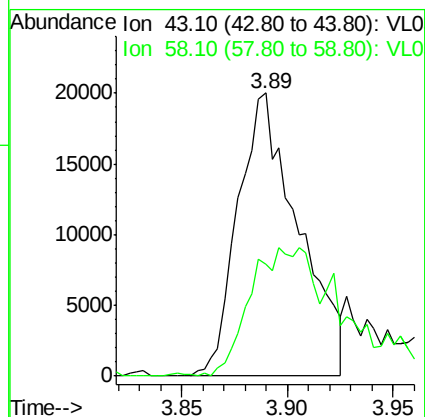
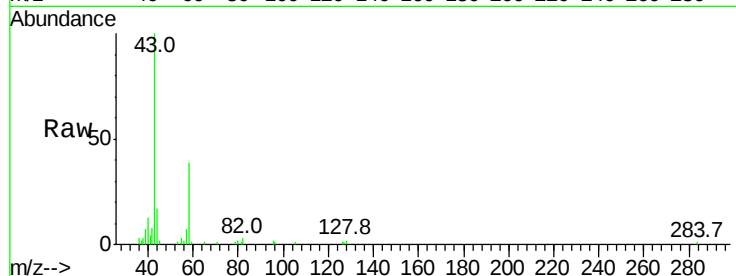
VSTDIC0.1

Tgt Ion: 43 Resp: 39826

Ion Ratio Lower Upper

43 100

58 76.0 23.7 35.5#



#16

1,3-Butadiene

Concen: 0.081 ppbv

RT: 3.33 min Scan# 168

Delta R.T. -0.00 min

Lab File: VL037168.D

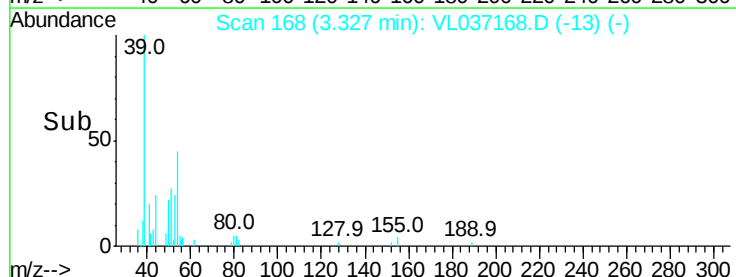
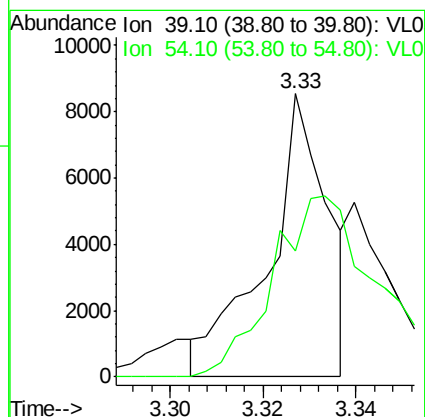
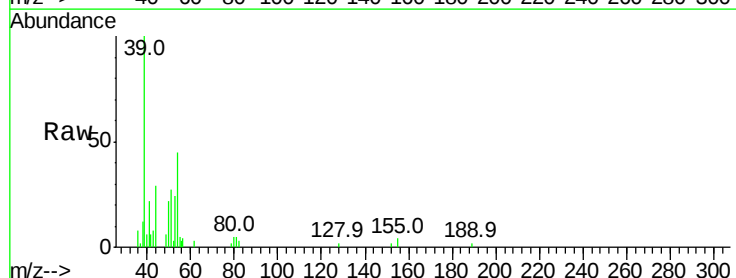
Acq: 16 Jun 2021 11:56

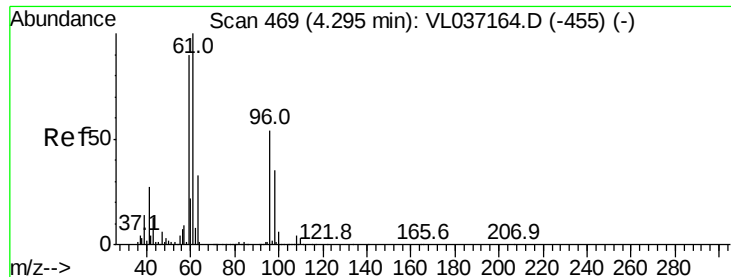
Tgt Ion: 39 Resp: 7649

Ion Ratio Lower Upper

39 100

54 131.7 61.2 91.8#

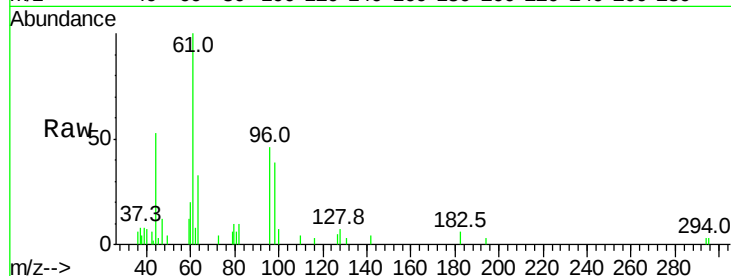




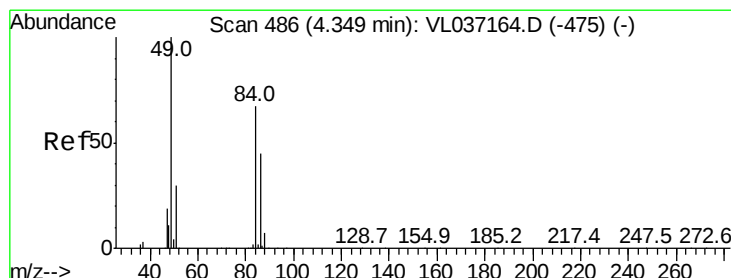
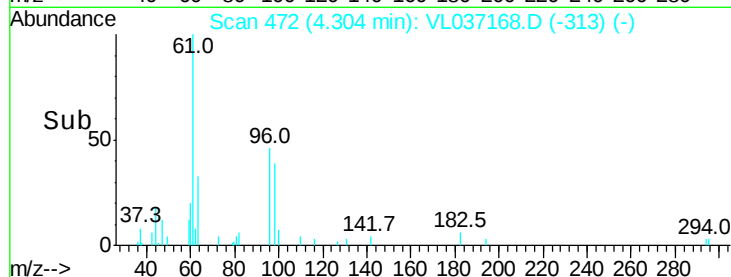
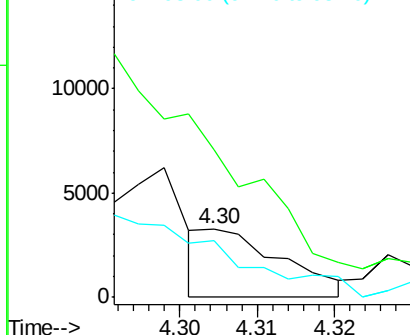
#18
1,1-Dichloroethene
Concen: 0.028 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.01 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.1

Tgt Ion: 96 Resp: 2323
Ion Ratio Lower Upper
96 100
61 218.5 148.6 222.8
98 70.8 51.9 77.9

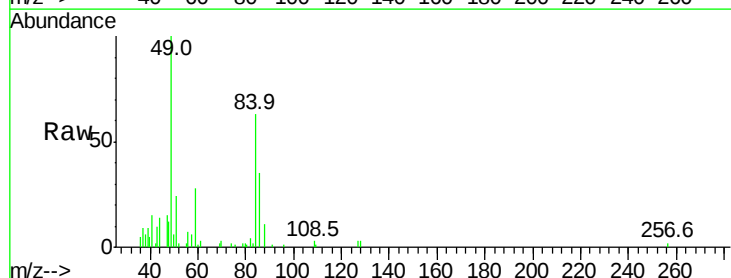


Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0

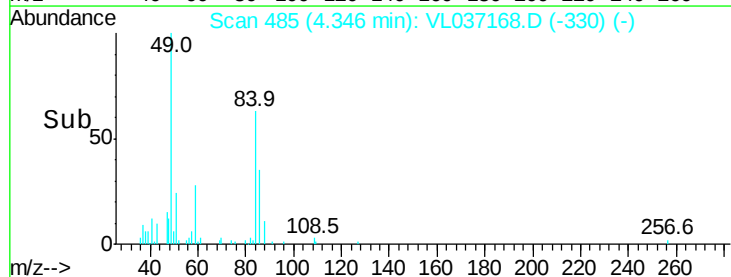
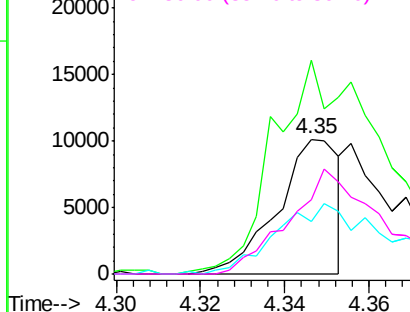


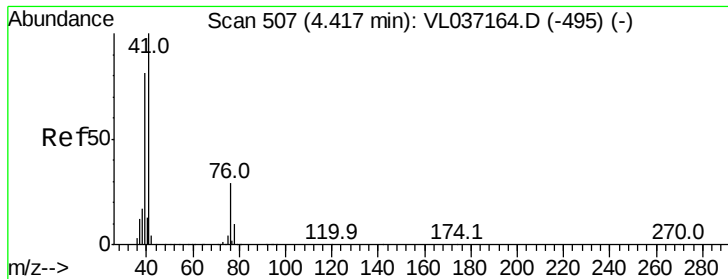
#20
Methylene Chloride
Concen: 0.134 ppbv
RT: 4.35 min Scan# 485
Delta R.T. -0.00 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

Tgt Ion: 84 Resp: 10255
Ion Ratio Lower Upper
84 100
49 156.4 119.7 179.5
51 36.7 36.1 54.1
86 54.8 53.7 80.5



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

Allyl Chloride

Concen: 0.052 ppbv

RT: 4.41 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

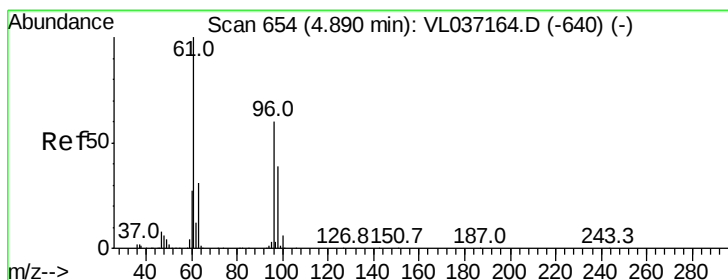
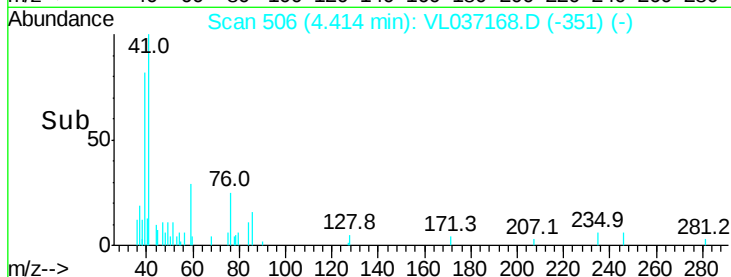
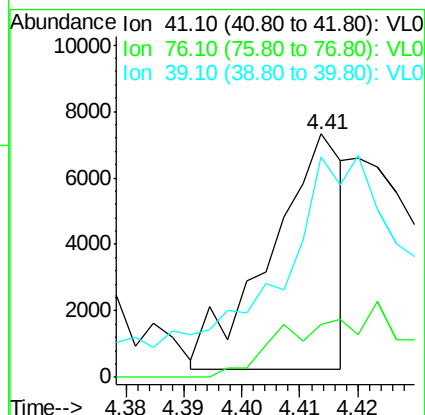
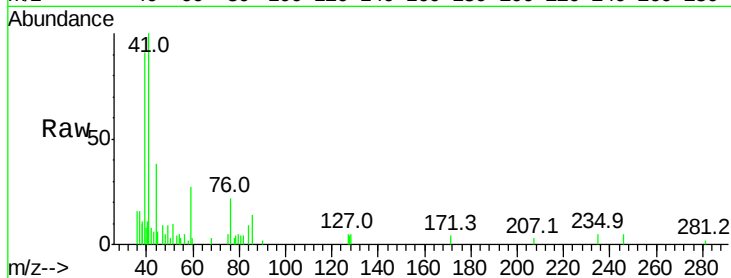
Tgt Ion: 41 Resp: 6128

Ion Ratio Lower Upper

41 100

76 0.0 24.6 37.0#

39 0.0 65.4 98.0#



#22

trans-1,2-Dichloroethene

Concen: 0.049 ppbv

RT: 4.89 min Scan# 655

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

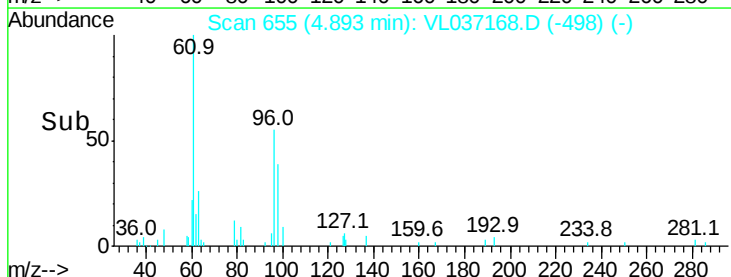
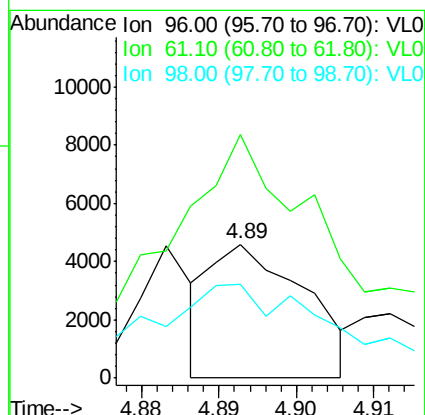
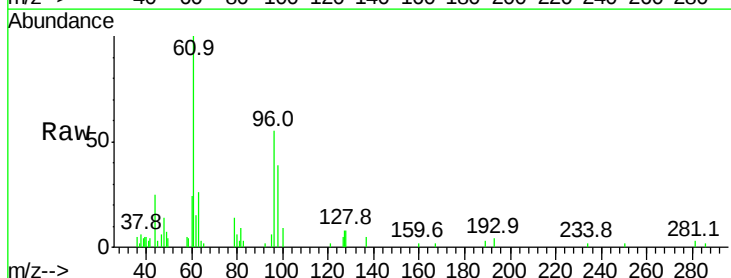
Tgt Ion: 96 Resp: 3885

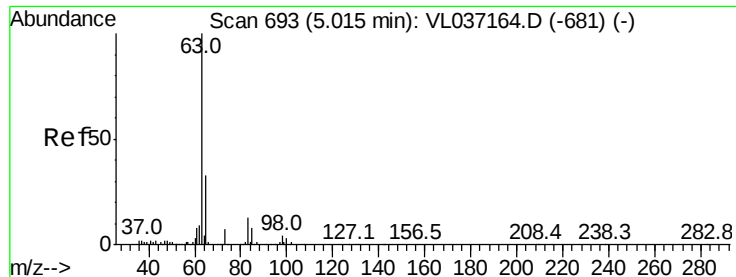
Ion Ratio Lower Upper

96 100

61 144.7 133.9 200.9

98 50.9 52.9 79.3#





#24

1,1-Dichloroethane

Concen: 0.117 ppbv

RT: 5.01 min Scan# 693

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

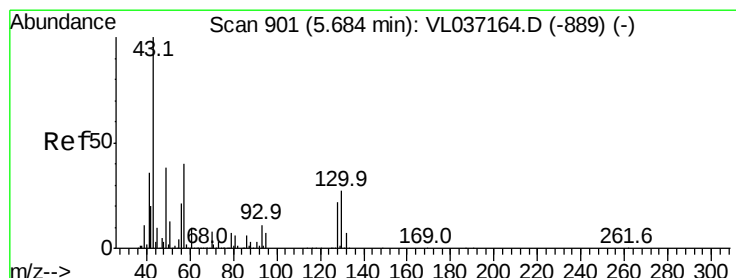
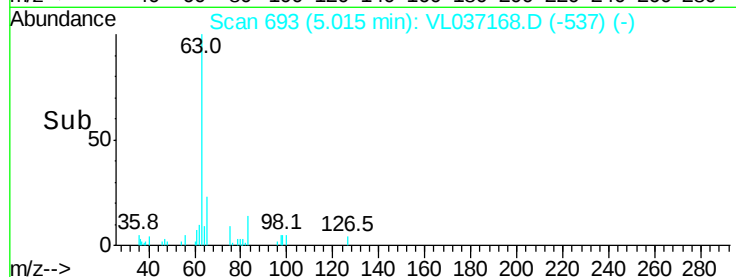
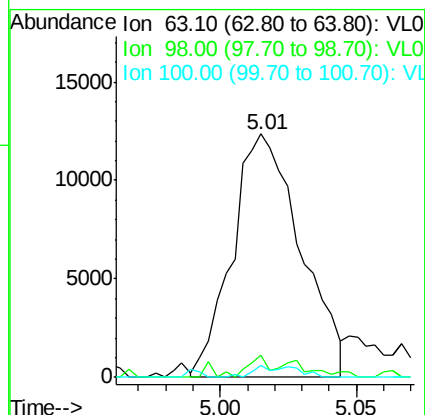
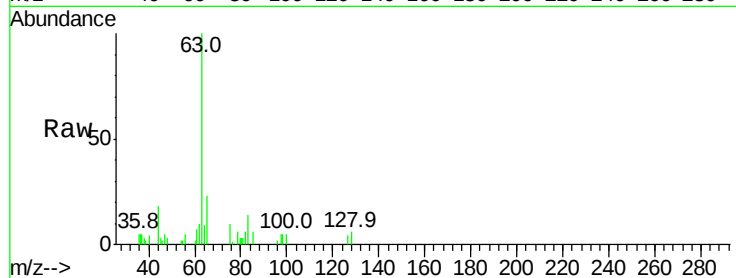
Tgt Ion: 63 Resp: 21515

Ion Ratio Lower Upper

63 100

98 9.5 2.1 6.5#

100 5.1 1.4 4.0#



#25

Ethyl Acetate

Concen: 0.049 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Tgt Ion: 43 Resp: 16835

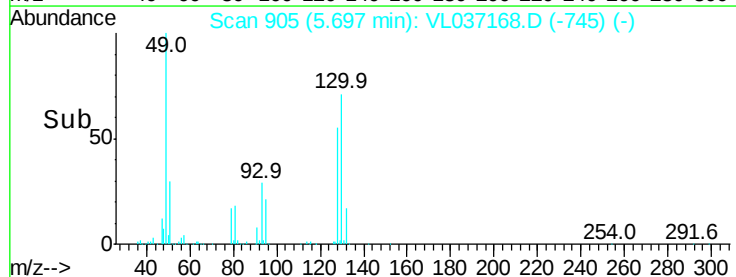
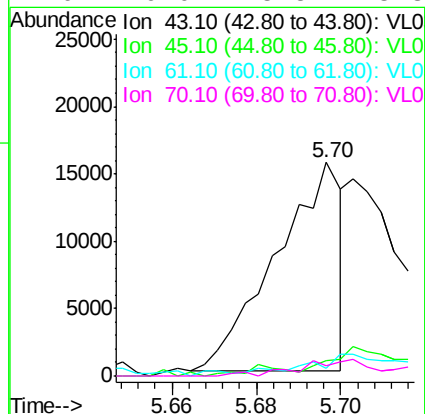
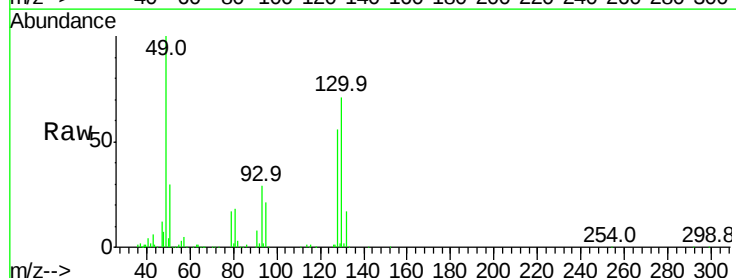
Ion Ratio Lower Upper

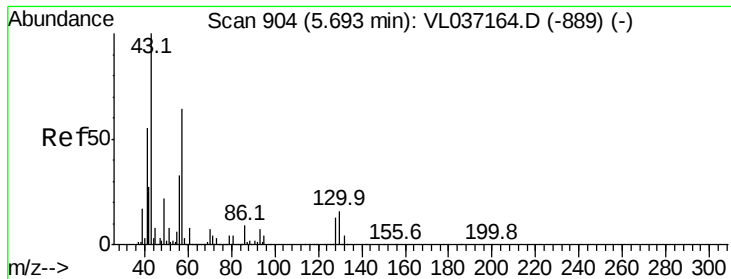
43 100

45 0.0 8.0 12.0#

61 0.0 8.1 12.1#

70 0.0 5.5 8.3#





#26

Hexane

Concen: 0.109 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 57 Resp: 18576

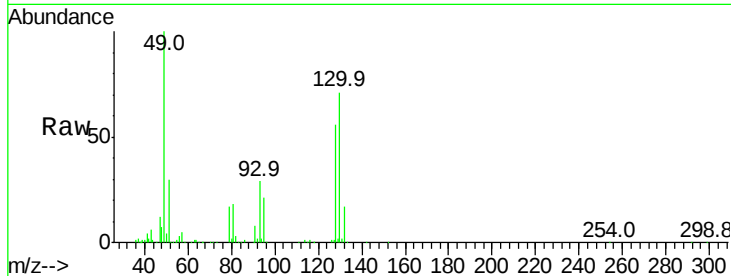
Ion Ratio Lower Upper

57 100

41 120.1 73.5 110.3#

43 237.7 170.7 256.1

56 68.3 42.4 63.6#



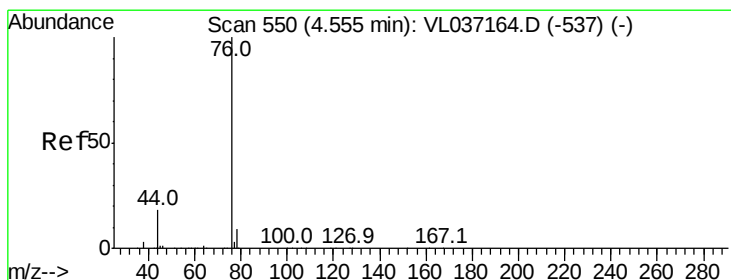
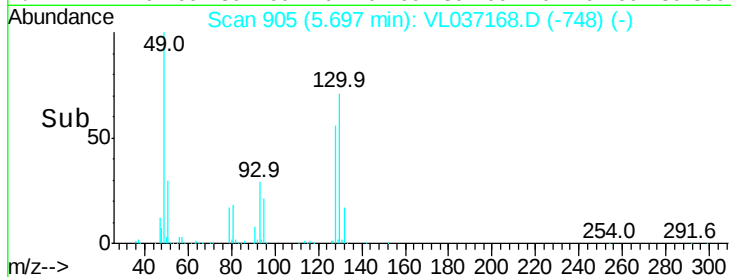
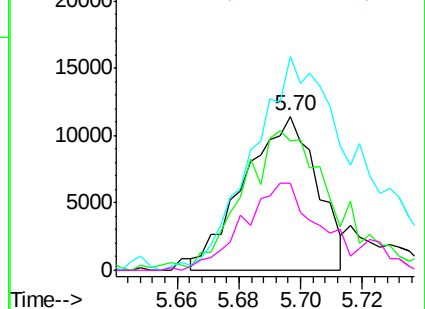
Abundance

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: 0.087 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

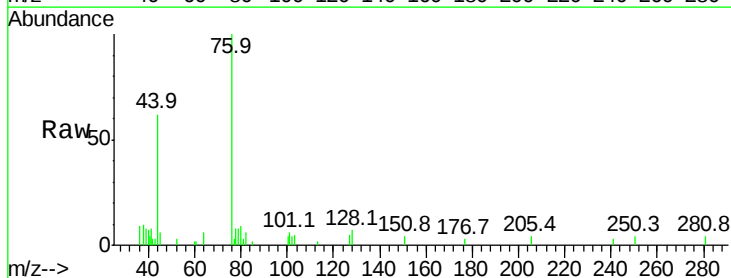
Tgt Ion: 76 Resp: 15122

Ion Ratio Lower Upper

76 100

44 37.5 15.4 23.2#

78 13.7 8.0 12.0#

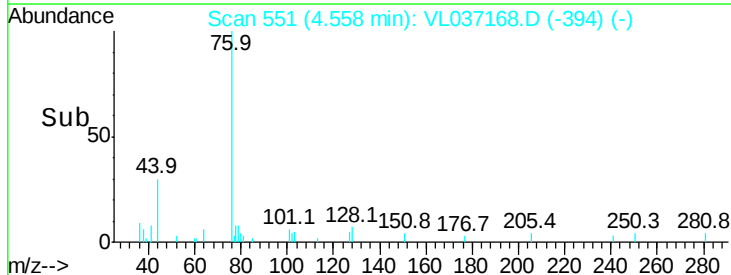
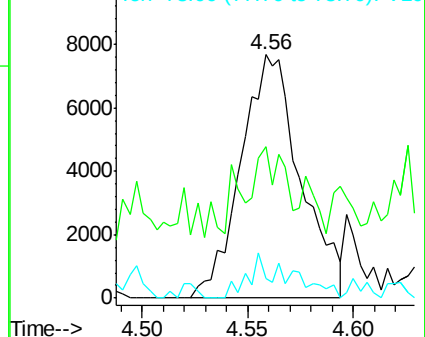


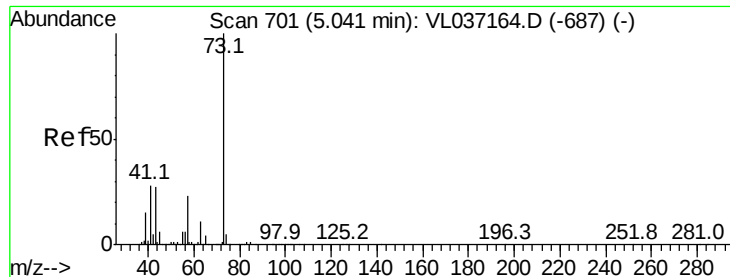
Abundance

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: 0.056 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.02 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

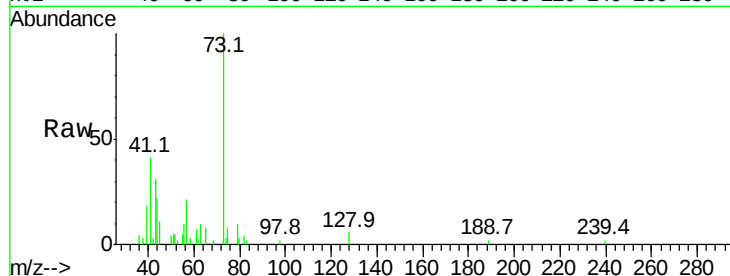
VSTDIC0.1

Tgt Ion: 73 Resp: 11935

Ion Ratio Lower Upper

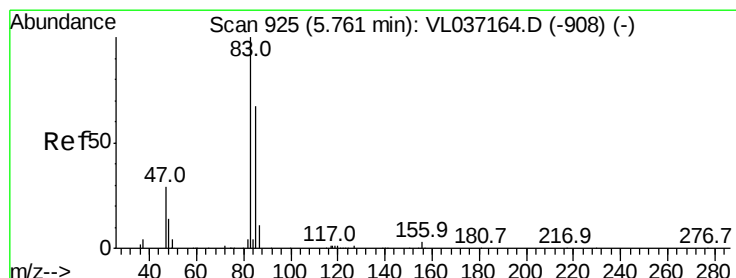
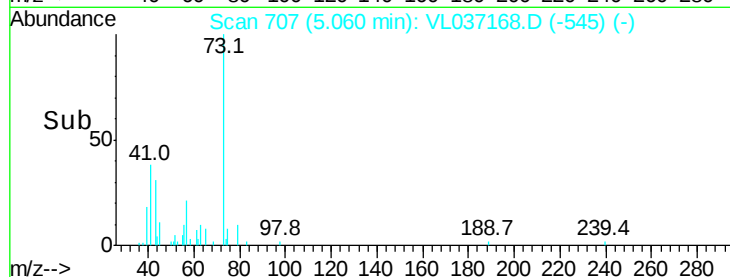
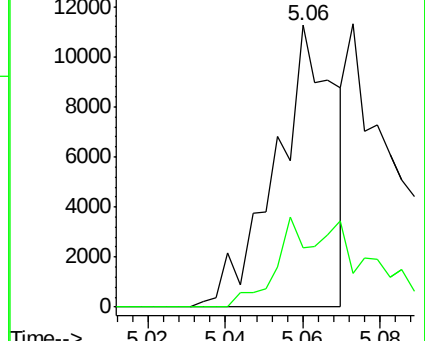
73 100

57 53.7 18.0 27.0#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.116 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL037168.D

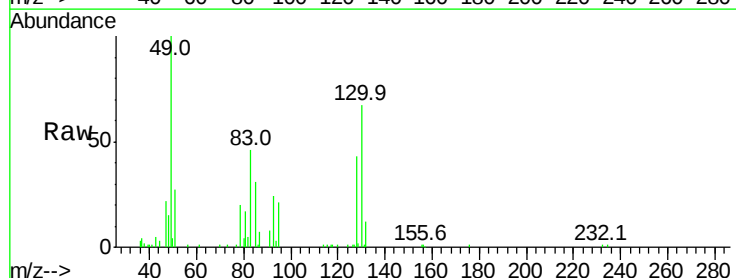
Acq: 16 Jun 2021 11:56

Tgt Ion: 83 Resp: 32056

Ion Ratio Lower Upper

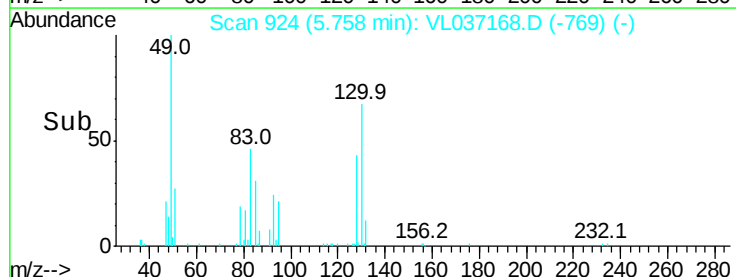
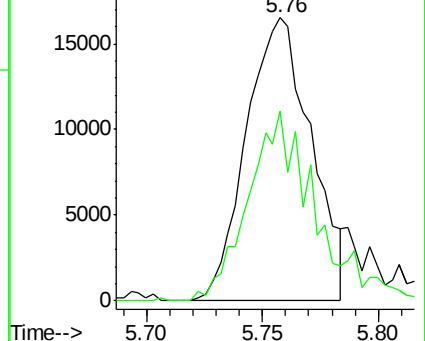
83 100

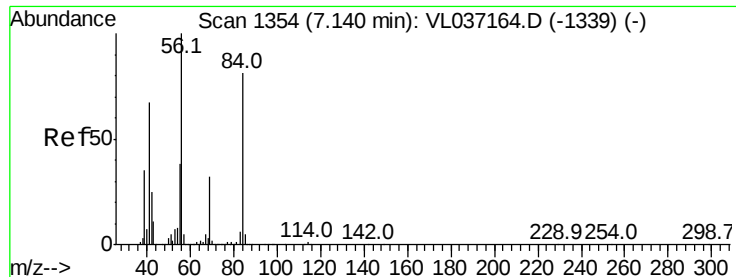
85 67.2 53.6 80.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

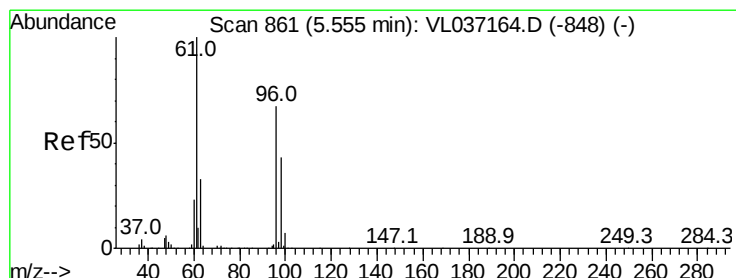
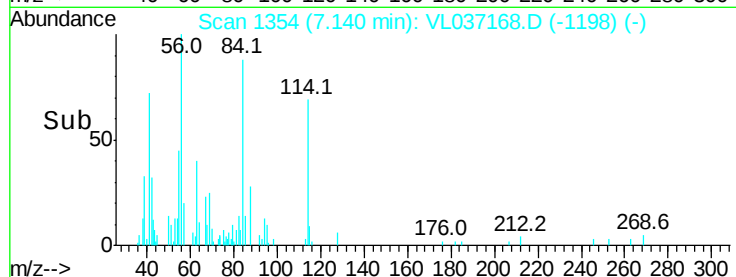
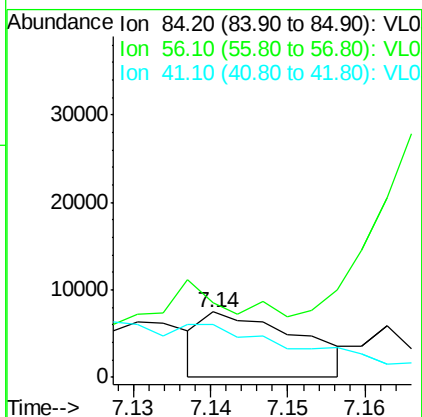
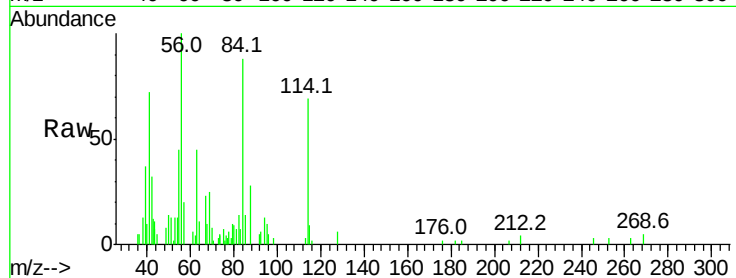




#30
Cyclohexane
Concen: 0.043 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

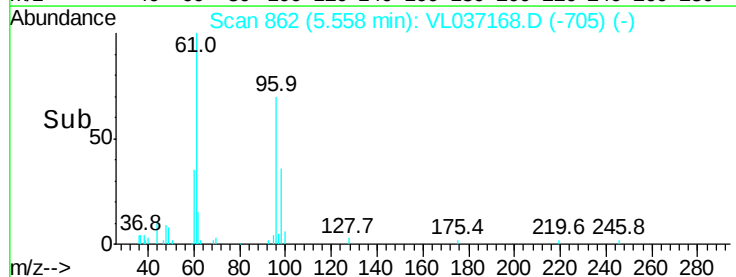
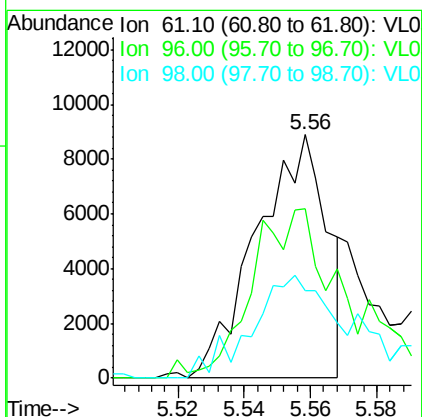
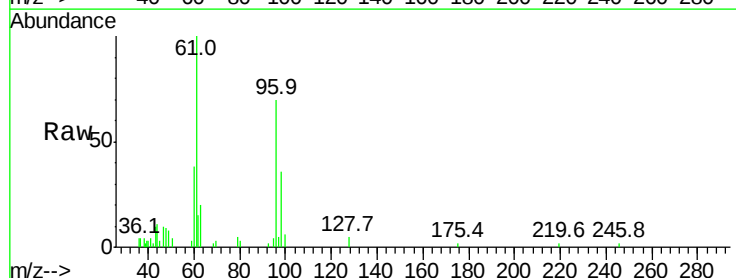
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

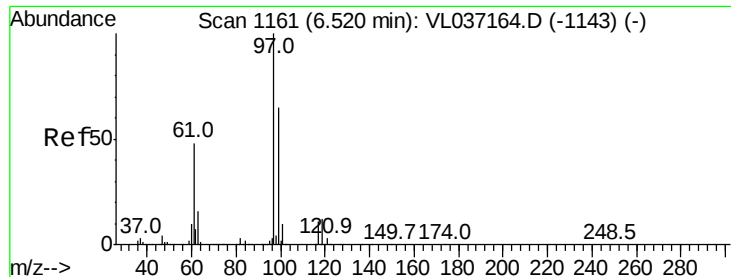
Tgt Ion: 84 Resp: 6448
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 69.0 103.6#



#31
cis-1,2-Dichloroethene
Concen: 0.080 ppbv
RT: 5.56 min Scan# 862
Delta R.T. 0.00 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

Tgt Ion: 61 Resp: 13107
Ion Ratio Lower Upper
61 100
96 67.6 53.6 80.4
98 36.0 34.7 52.1

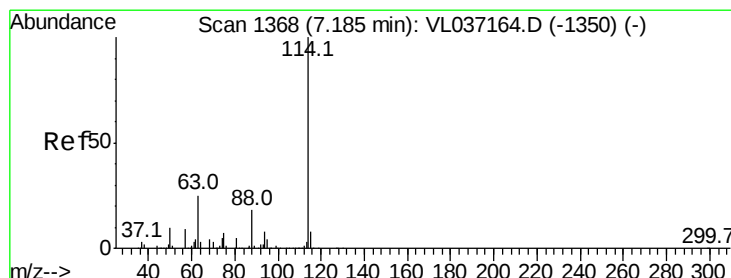
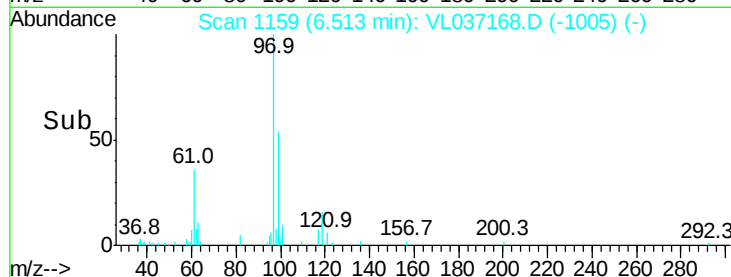
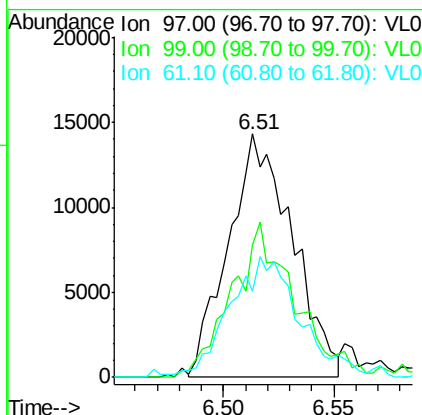
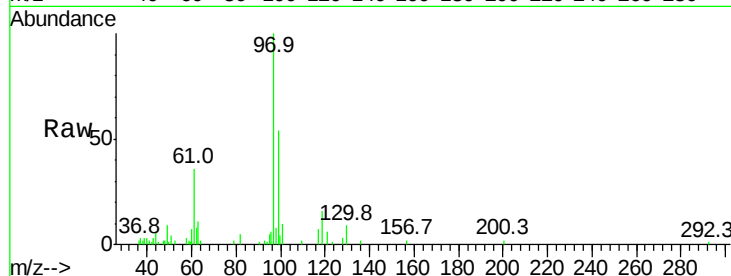




#32
 1,1,1-Trichloroethane
 Concen: 0.114 ppbv
 RT: 6.51 min Scan# 1159
 Delta R.T. -0.01 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

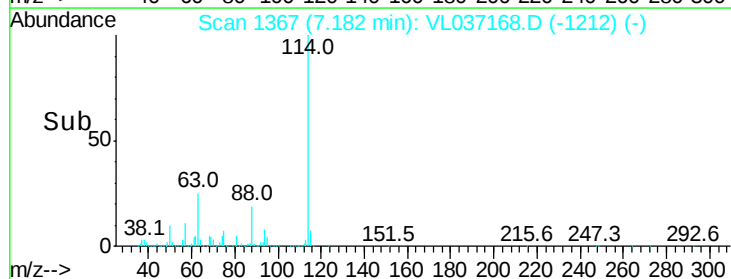
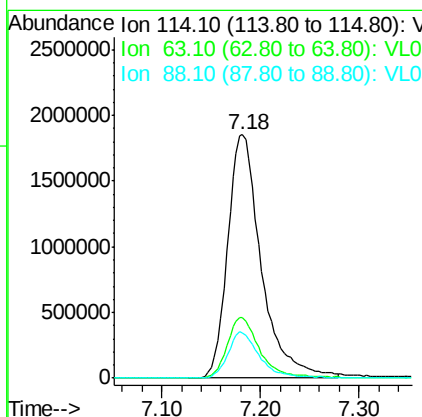
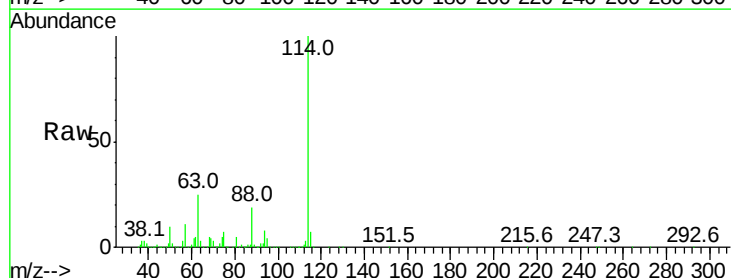
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

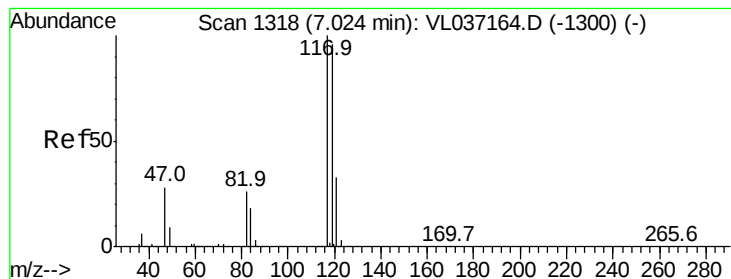
Tgt Ion: 97 Resp: 28800
 Ion Ratio Lower Upper
 97 100
 99 65.2 52.2 78.4
 61 55.2 38.8 58.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

Tgt Ion: 114 Resp: 4404740
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.6 29.4
 88 18.1 14.2 21.2





#35

Carbon Tetrachloride

Concen: 0.096 ppbv

RT: 7.02 min Scan# 1318

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

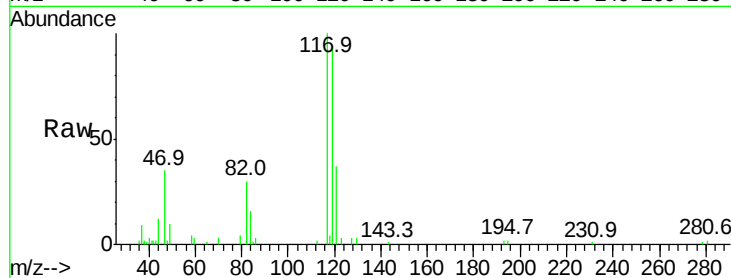
Tgt Ion:117 Resp: 25970

Ion Ratio Lower Upper

117 100

119 92.5 76.6 114.8

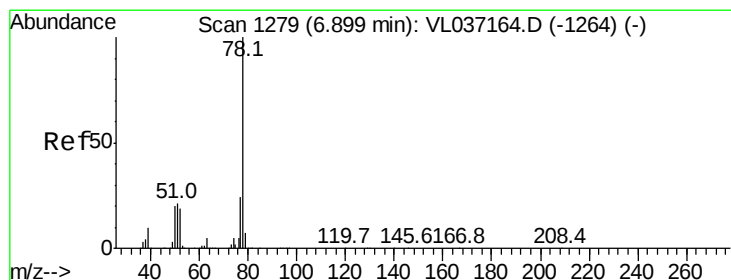
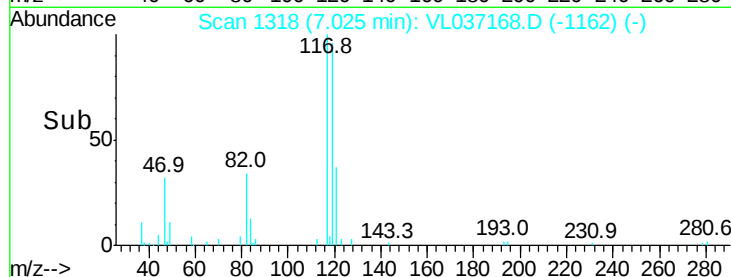
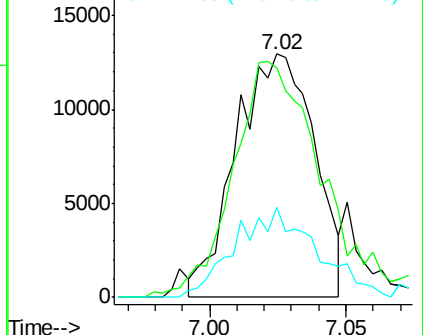
121 37.2 26.4 39.6



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: 0.112 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

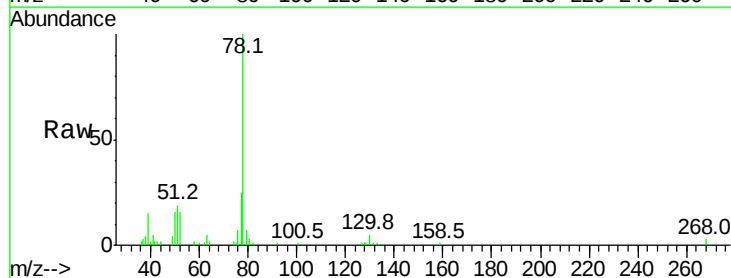
Tgt Ion: 78 Resp: 39048

Ion Ratio Lower Upper

78 100

77 24.8 19.0 28.6

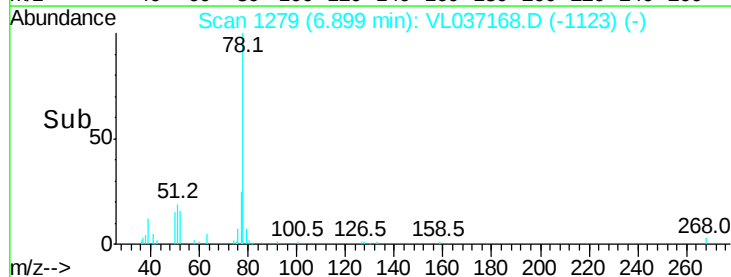
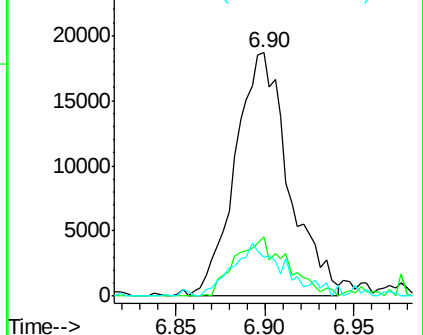
50 14.6 15.7 23.5#

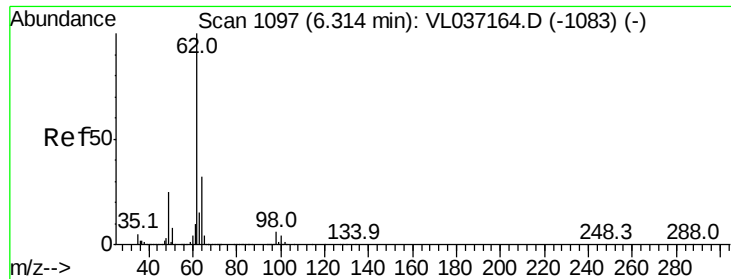


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

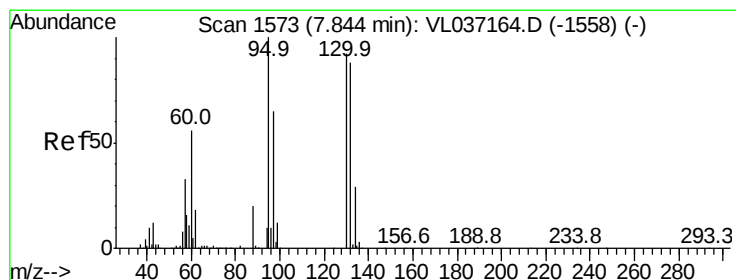
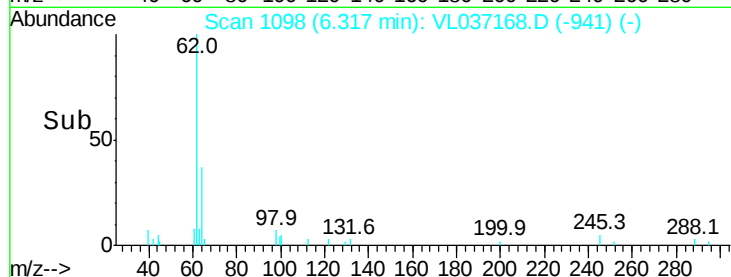
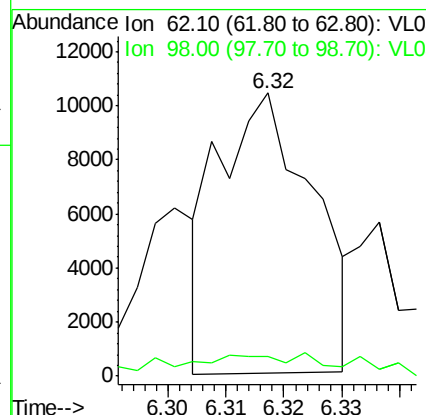
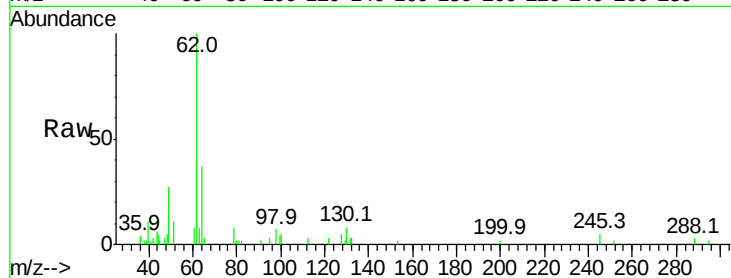




#37
 1,2-Dichloroethane
 Concen: 0.058 ppbv
 RT: 6.32 min Scan# 1098
 Delta R.T. 0.00 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

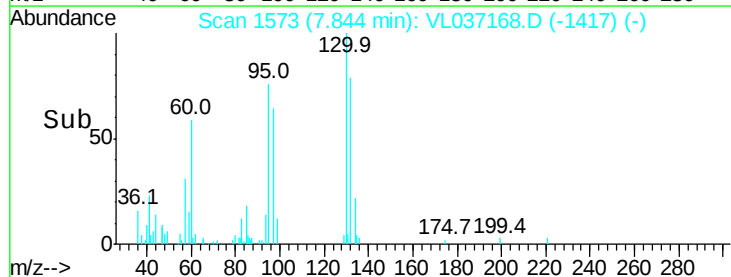
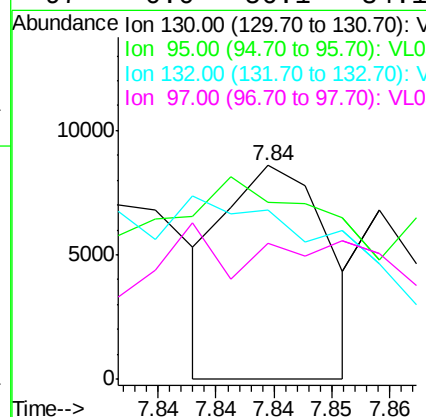
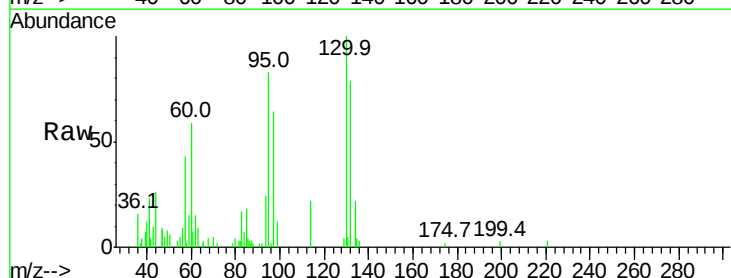
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

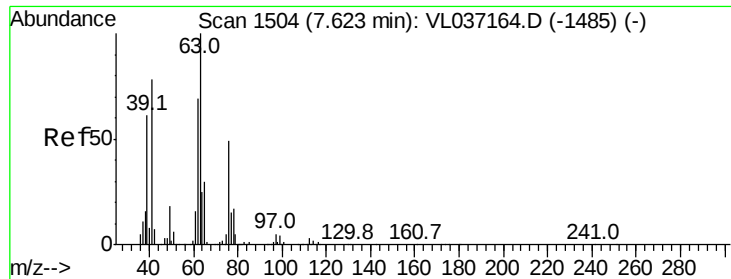
Tgt Ion: 62 Resp: 11742
 Ion Ratio Lower Upper
 62 100
 98 13.8 5.0 7.6#



#38
 Trichloroethene
 Concen: 0.035 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.00 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

Tgt Ion: 130 Resp: 5324
 Ion Ratio Lower Upper
 130 100
 95 13.7 86.6 129.8#
 132 17.3 76.6 114.8#
 97 0.0 56.1 84.1#





#39

1,2-Dichloropropane

Concen: 7.858 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.44 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

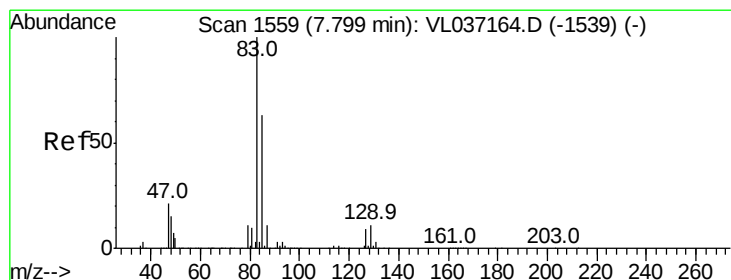
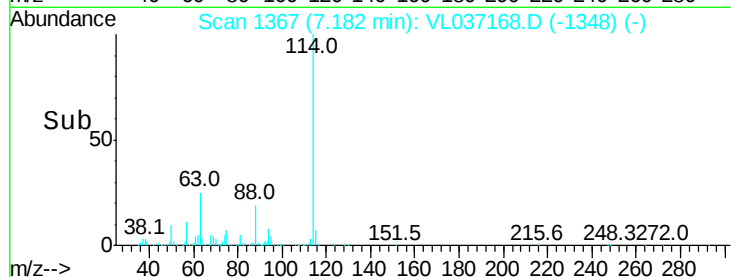
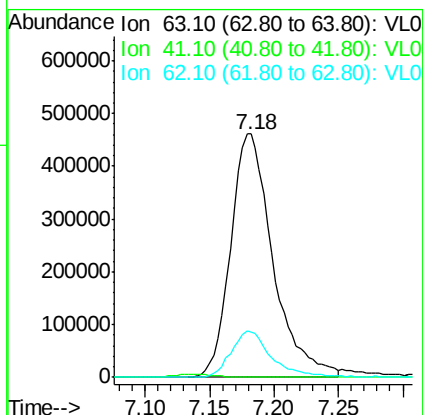
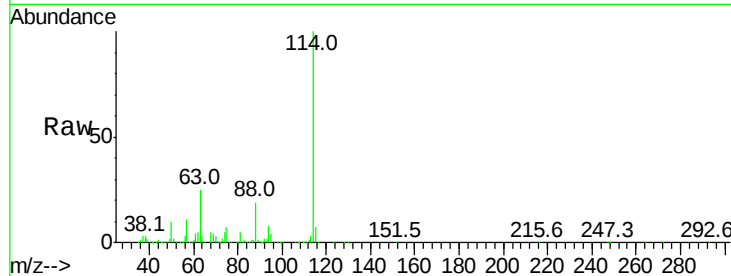
Tgt Ion: 63 Resp: 1048660

Ion Ratio Lower Upper

63 100

41 0.2 62.0 93.0#

62 18.2 54.9 82.3#



#42

Bromodichloromethane

Concen: 0.028 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

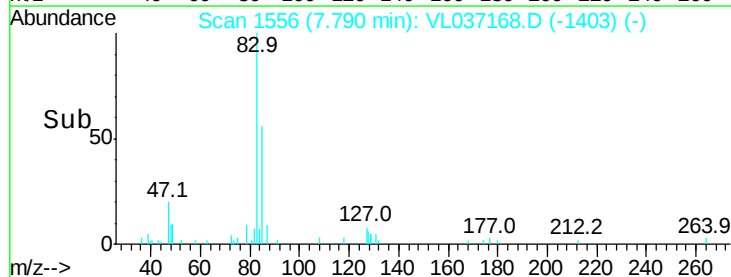
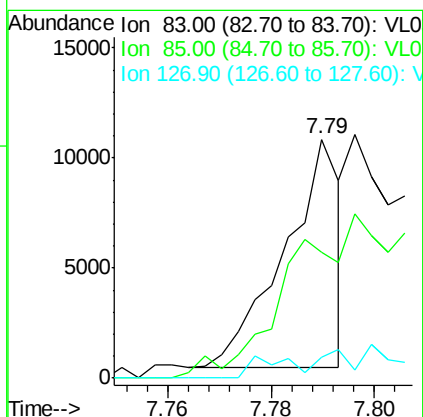
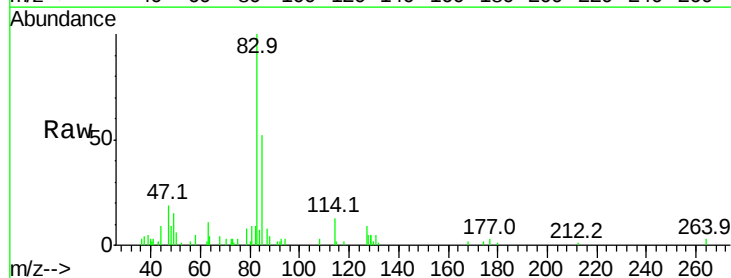
Tgt Ion: 83 Resp: 7797

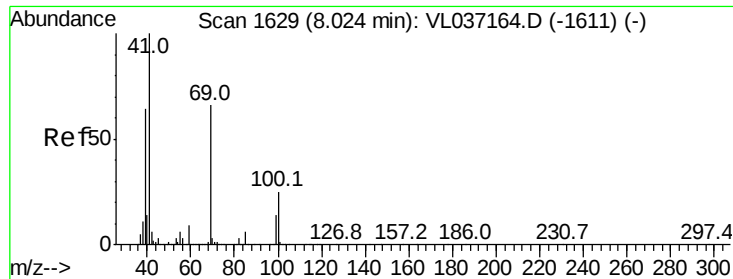
Ion Ratio Lower Upper

83 100

85 52.7 50.8 76.2

127 9.3 7.0 10.6





#43

Methyl Methacrylate

Concen: 0.036 ppbv

RT: 8.03 min Scan# 1630

Delta R.T. 0.00 min

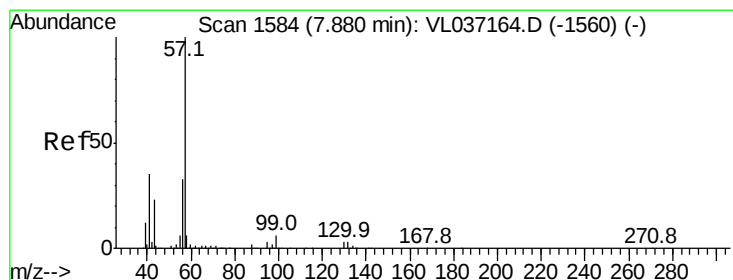
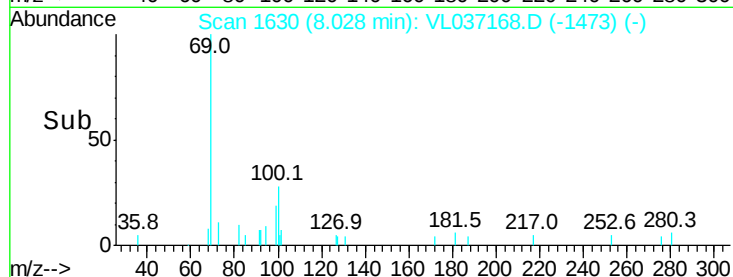
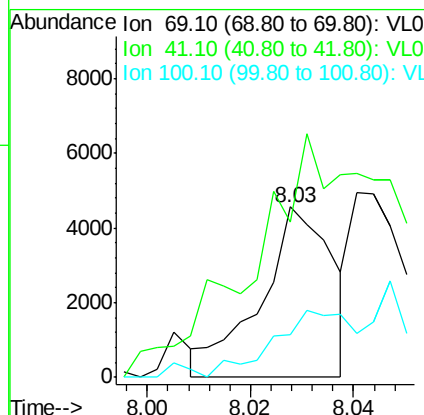
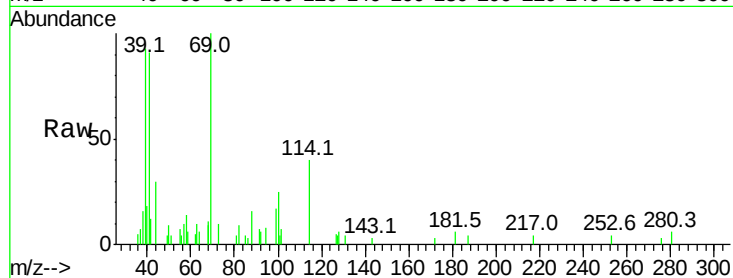
Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 69 Resp: 4370

Ion	Ratio	Lower	Upper
69	100		
41	321.5	119.4	179.0#
100	0.0	28.6	43.0#



#44

2,2,4-Trimethylpentane

Concen: 0.057 ppbv

RT: 7.88 min Scan# 1583

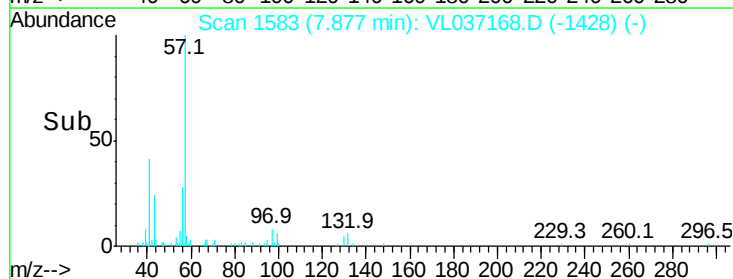
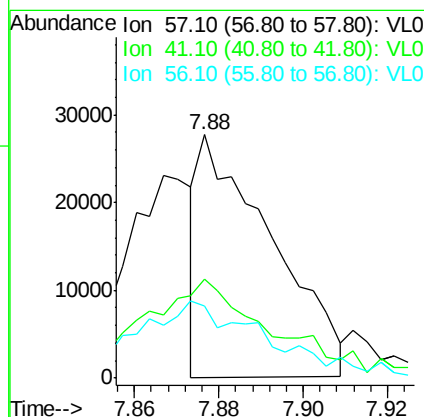
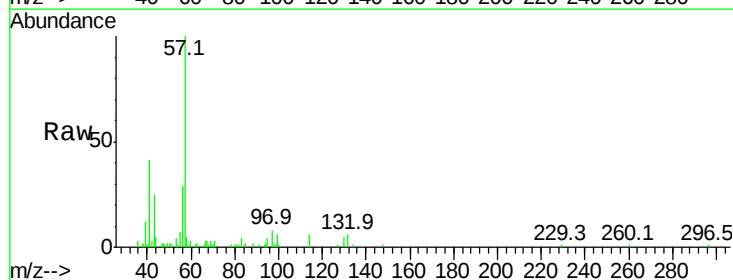
Delta R.T. -0.00 min

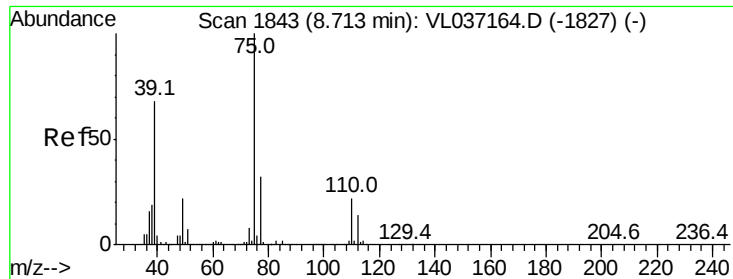
Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Tgt Ion: 57 Resp: 33203

Ion	Ratio	Lower	Upper
57	100		
41	76.7	27.6	41.4#
56	61.0	25.3	37.9#



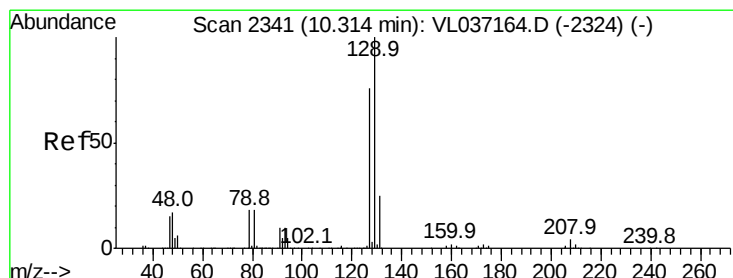
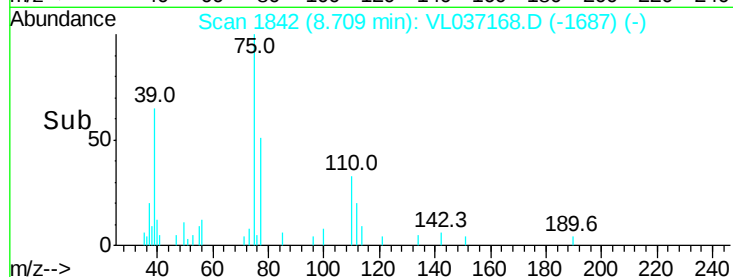
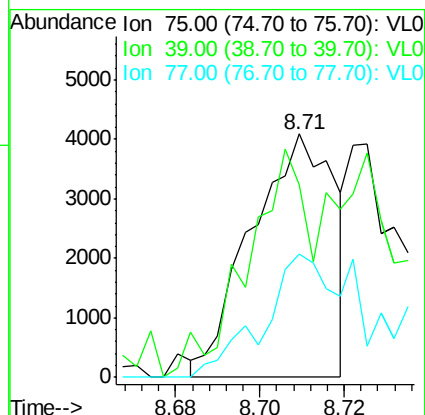
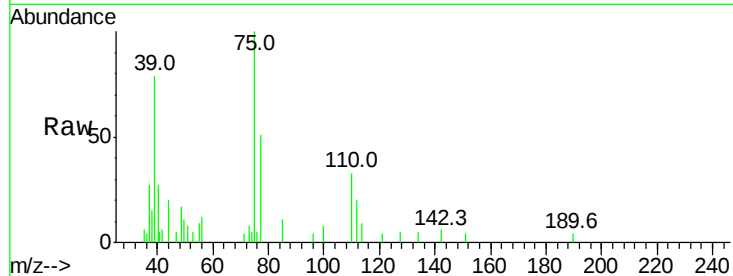


#46

cis-1,3-Dichloropropene
 Concen: 0.039 ppbv
 RT: 8.71 min Scan# 1842
 Delta R.T. -0.00 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

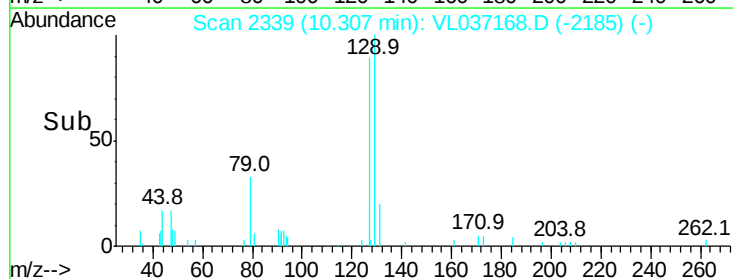
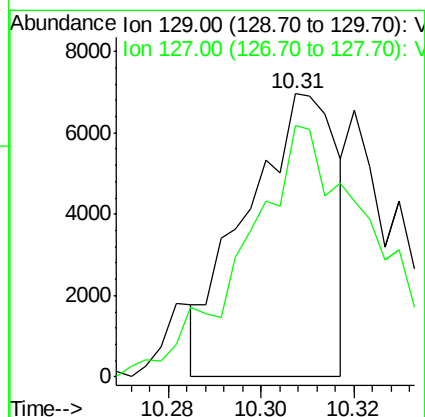
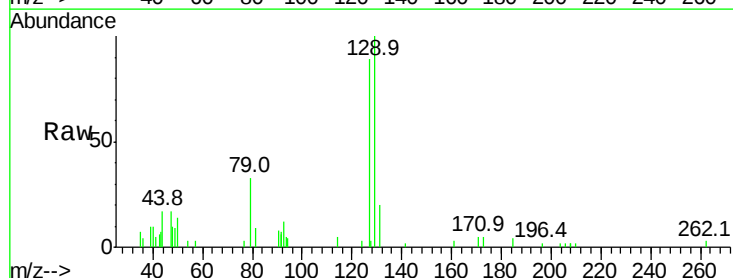
Tgt Ion: 75 Resp: 5578
 Ion Ratio Lower Upper
 75 100
 39 64.7 54.7 82.1
 77 54.6 25.8 38.8#

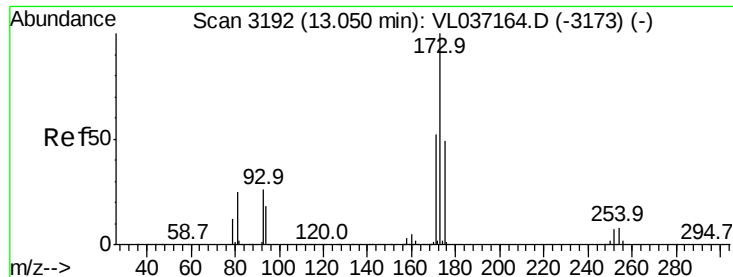


#48

Dibromochloromethane
 Concen: 0.039 ppbv
 RT: 10.31 min Scan# 2339
 Delta R.T. -0.01 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

Tgt Ion: 129 Resp: 9449
 Ion Ratio Lower Upper
 129 100
 127 148.9 39.1 117.2#





#49

Bromoform

Concen: 0.022 ppbv

RT: 13.05 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

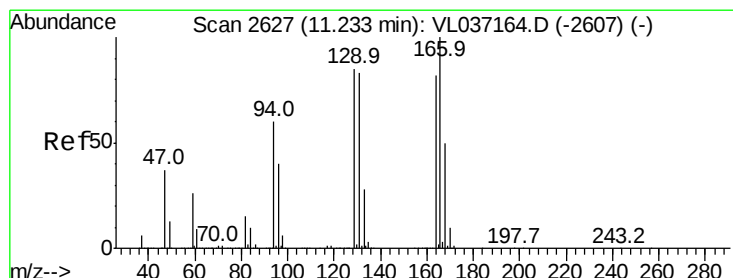
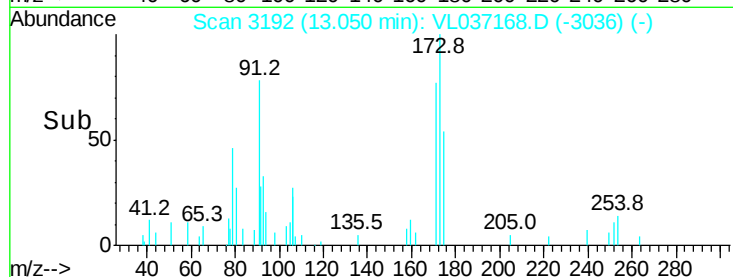
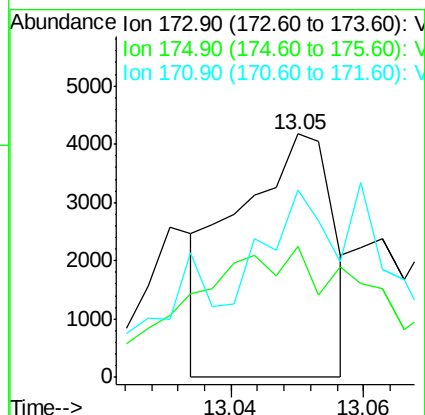
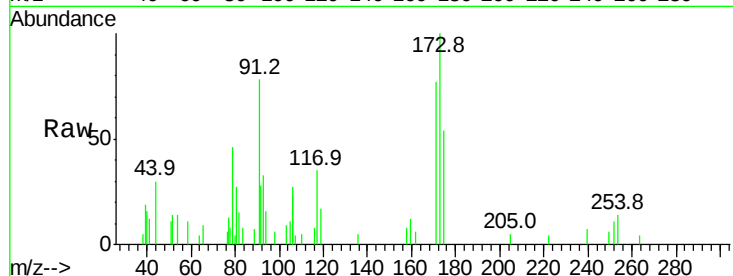
Tgt Ion:173 Resp: 4263

Ion Ratio Lower Upper

173 100

175 129.3 40.2 60.4#

171 0.0 41.8 62.8#



#52

Tetrachloroethene

Concen: 0.049 ppbv

RT: 11.23 min Scan# 2627

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Tgt Ion:164 Resp: 7100

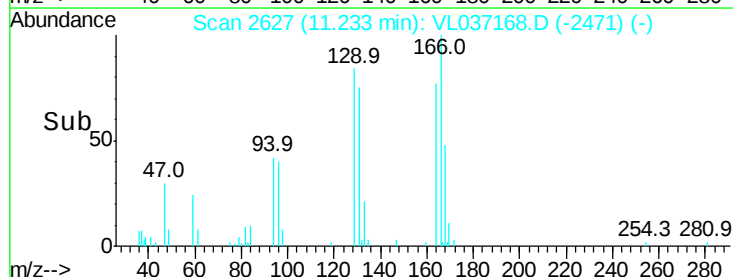
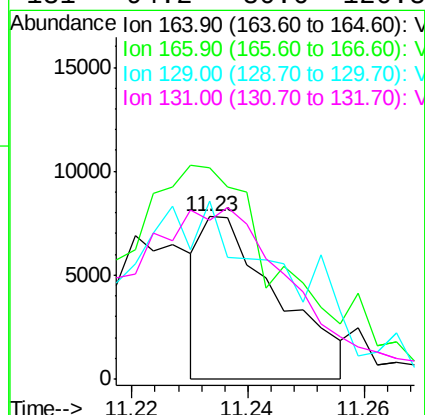
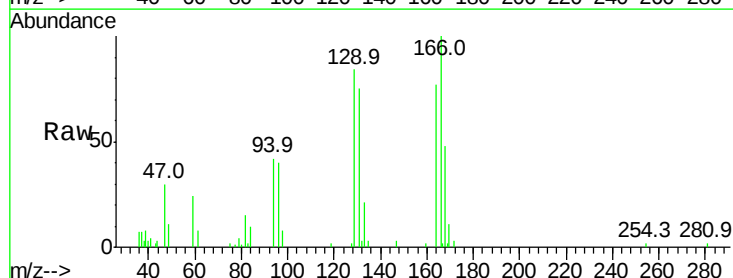
Ion Ratio Lower Upper

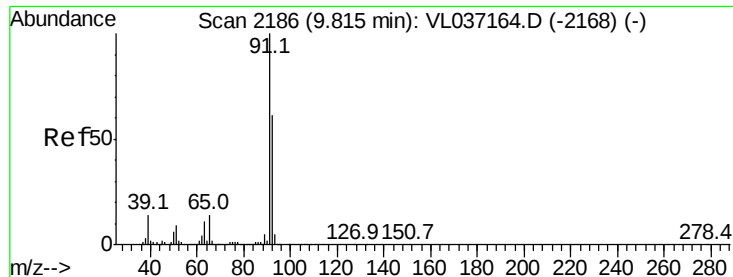
164 100

166 126.0 97.6 146.4

129 89.1 82.9 124.3

131 94.2 80.6 120.8





#53

Toluene

Concen: 0.072 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

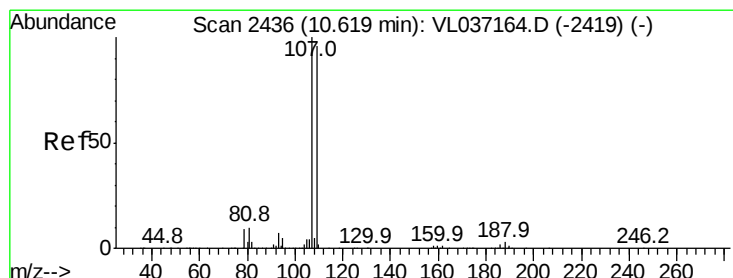
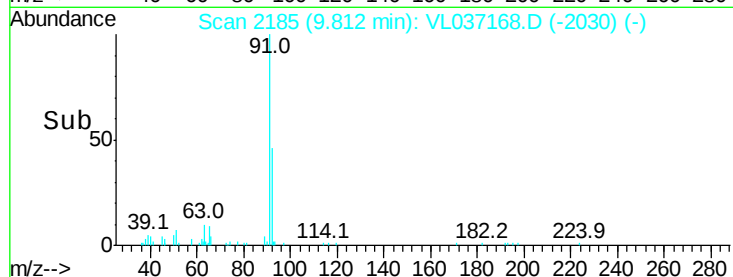
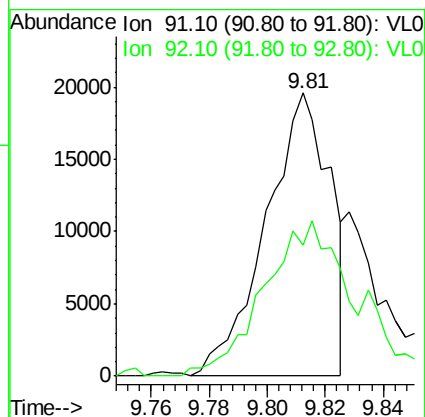
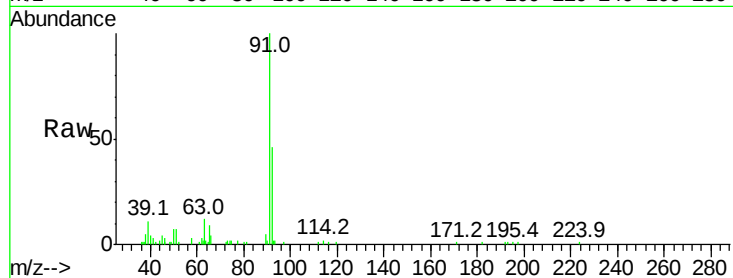
VSTDIC0.1

Tgt Ion: 91 Resp: 30099

Ion Ratio Lower Upper

91 100

92 85.0 48.3 72.5#



#54

1,2-Dibromoethane

Concen: 0.072 ppbv

RT: 10.61 min Scan# 2434

Delta R.T. -0.01 min

Lab File: VL037168.D

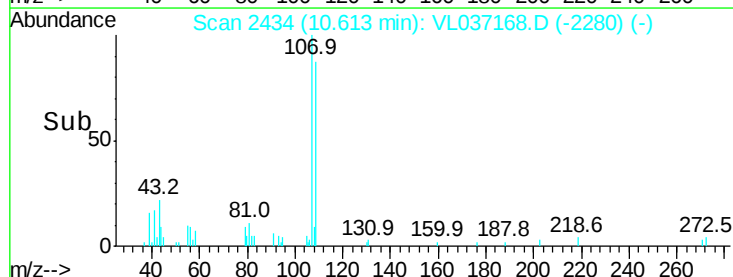
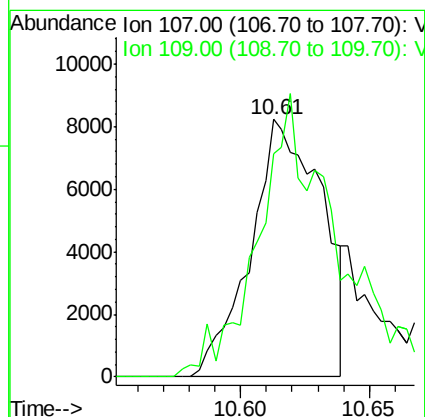
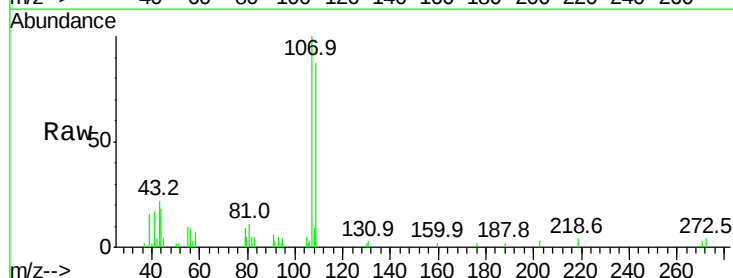
Acq: 16 Jun 2021 11:56

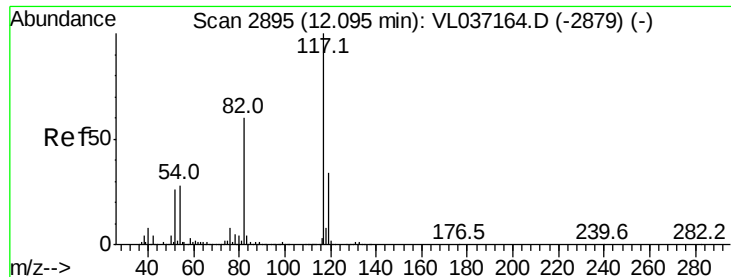
Tgt Ion: 107 Resp: 15873

Ion Ratio Lower Upper

107 100

109 82.2 77.0 115.6

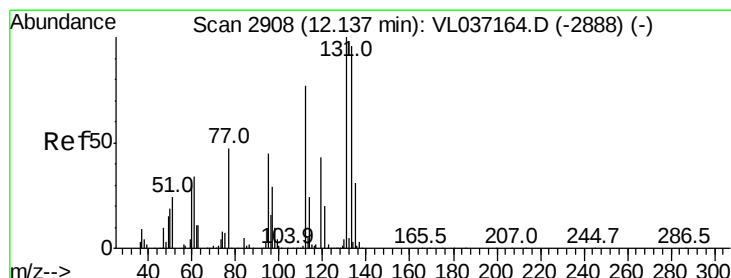
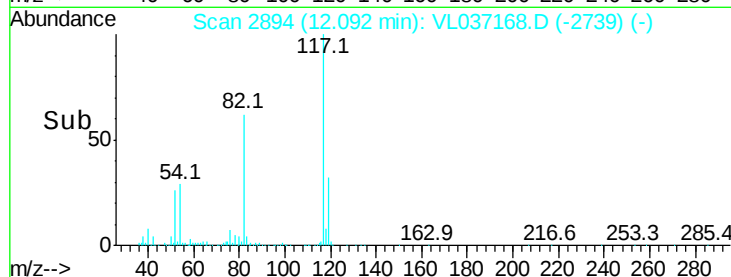
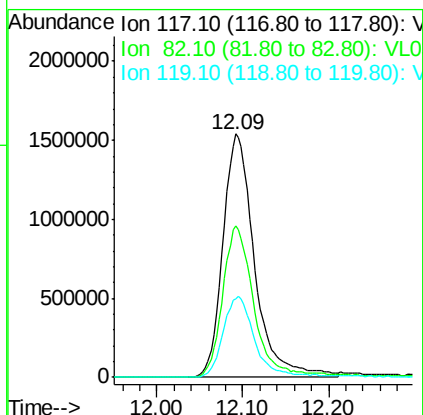
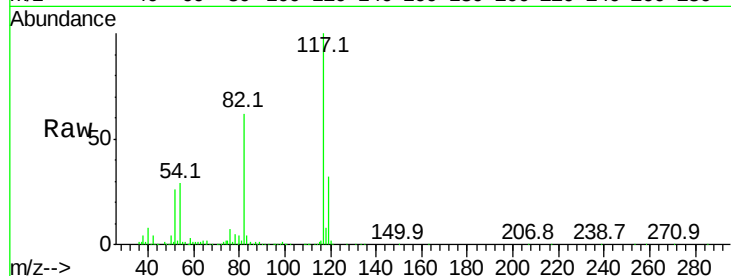




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

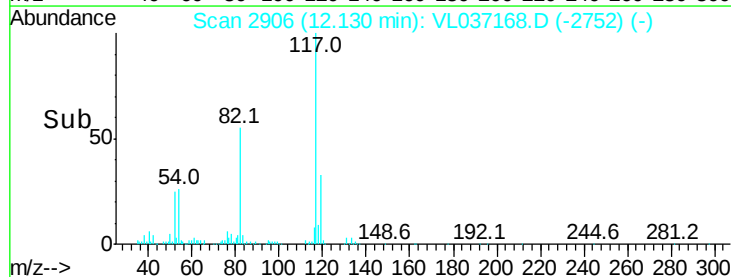
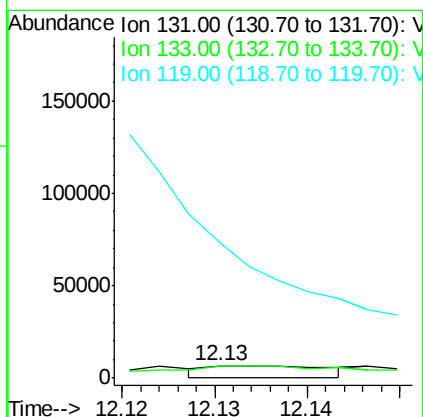
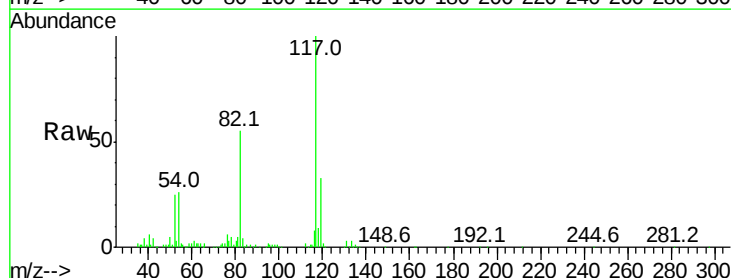
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

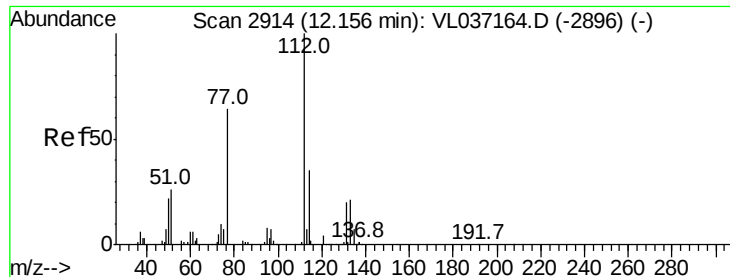
Tgt Ion:117 Resp: 3952533
Ion Ratio Lower Upper
117 100
82 64.9 51.7 77.5
119 33.9 47.6 71.4#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.034 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

Tgt Ion:131 Resp: 5860
Ion Ratio Lower Upper
131 100
133 265.6 76.5 114.7#
119 0.0 48.6 72.8#





#57

Chlorobenzene

Concen: 0.056 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

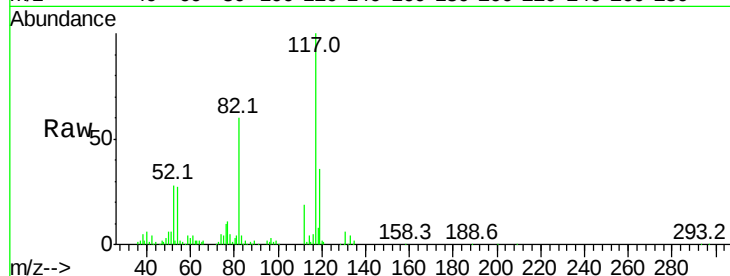
Tgt Ion: 112 Resp: 17753

Ion Ratio Lower Upper

112 100

77 0.0 52.2 78.4#

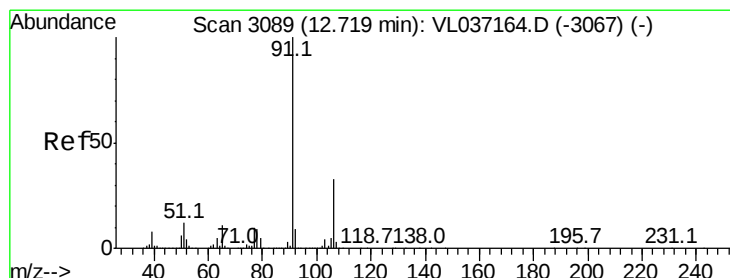
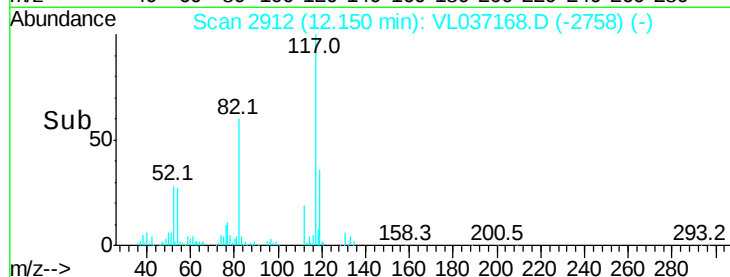
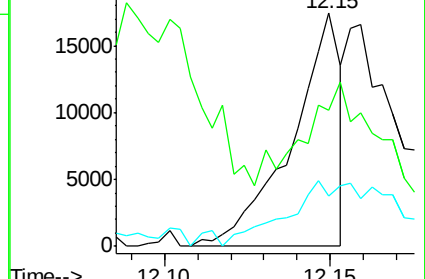
114 21.5 31.1 38.1#



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: 0.057 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL037168.D

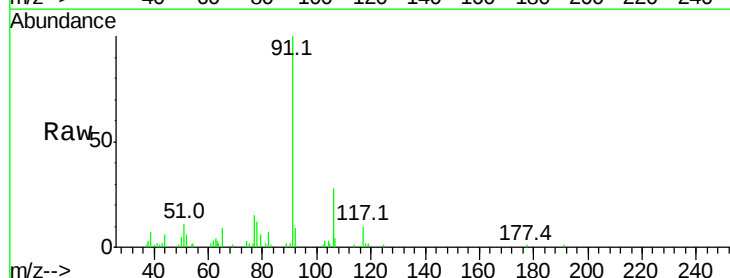
Acq: 16 Jun 2021 11:56

Tgt Ion: 91 Resp: 30731

Ion Ratio Lower Upper

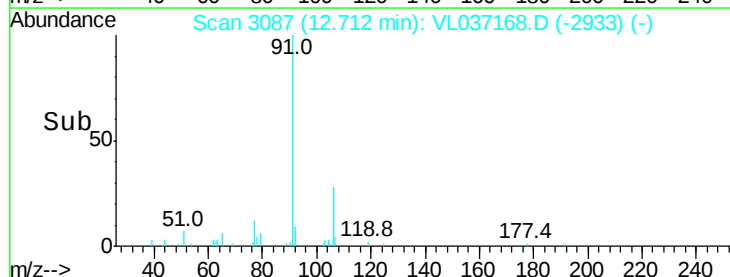
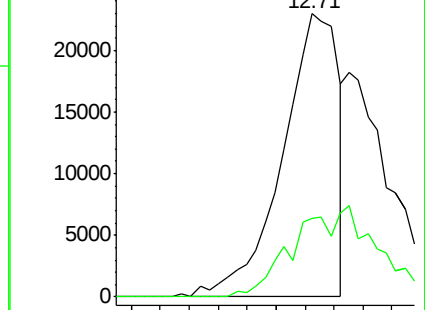
91 100

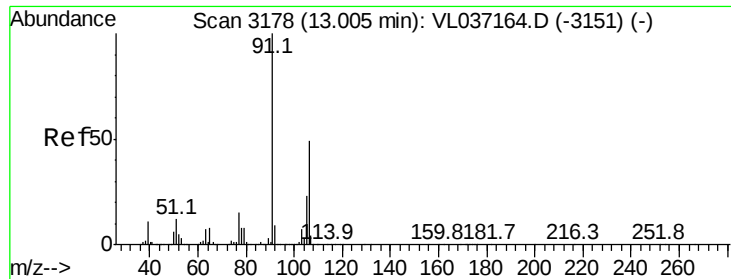
106 28.0 26.3 39.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 0.072 ppbv

RT: 13.00 min Scan# 3177

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

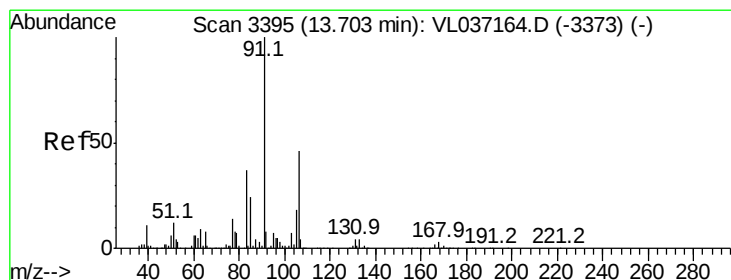
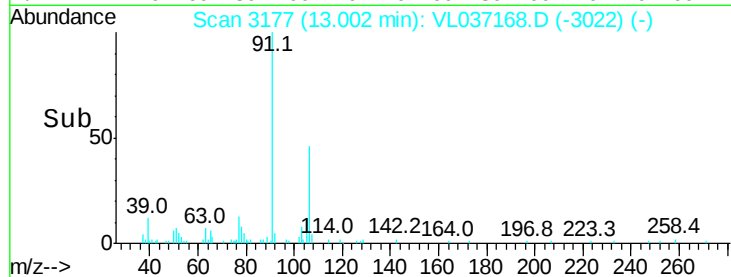
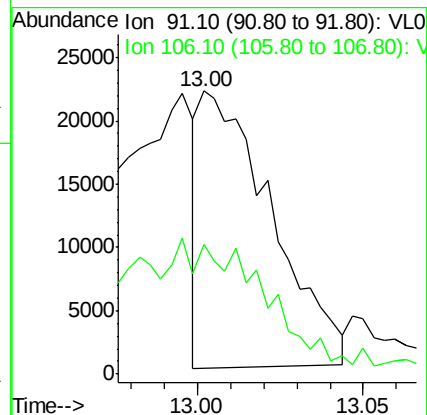
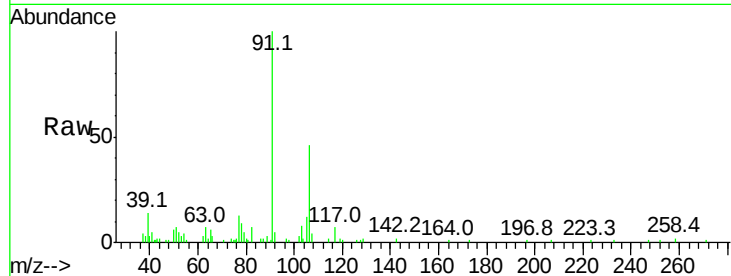
VSTDIC0.1

Tgt Ion: 91 Resp: 32678

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.4#



#60

o-Xylene

Concen: 0.036 ppbv

RT: 13.70 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VL037168.D

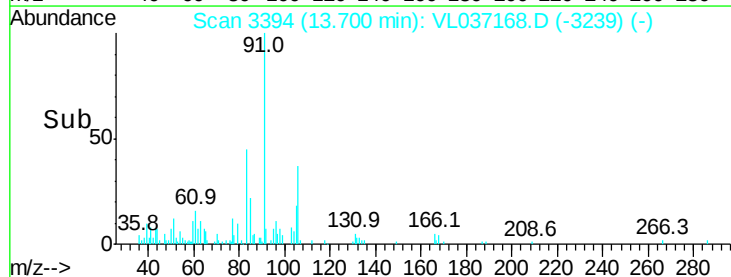
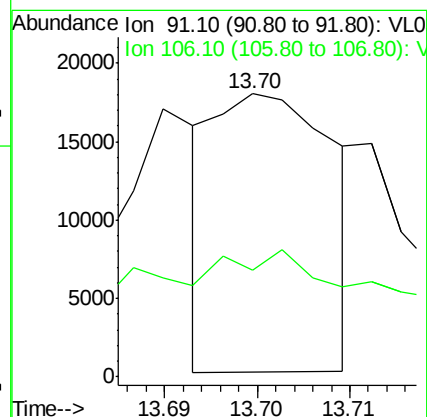
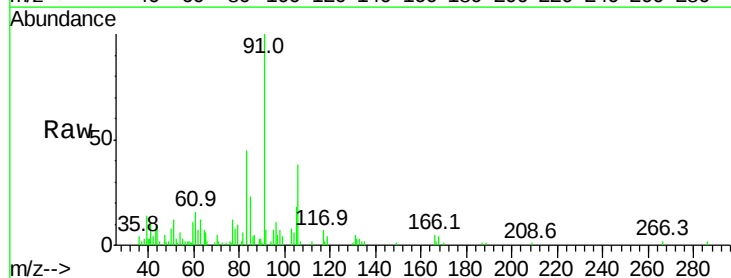
Acq: 16 Jun 2021 11:56

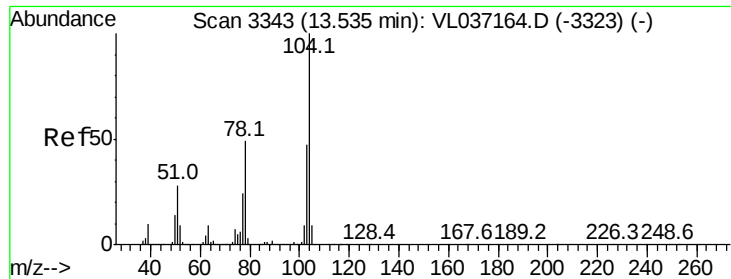
Tgt Ion: 91 Resp: 15726

Ion Ratio Lower Upper

91 100

106 125.0 23.0 69.0#

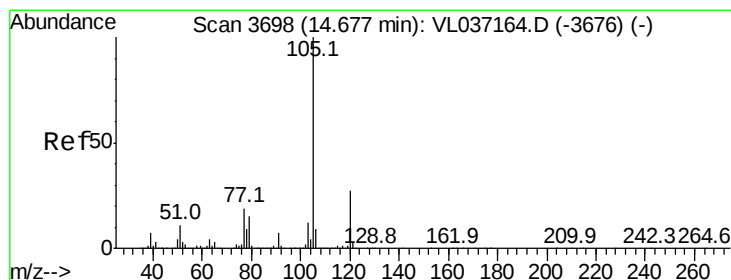
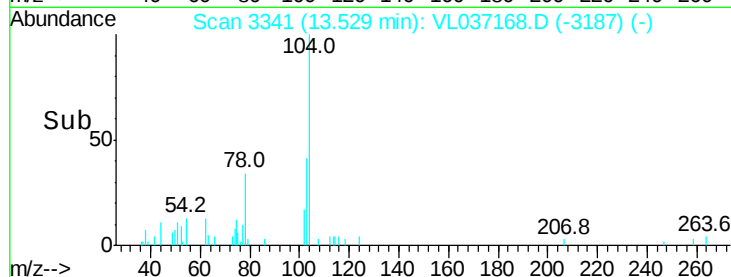
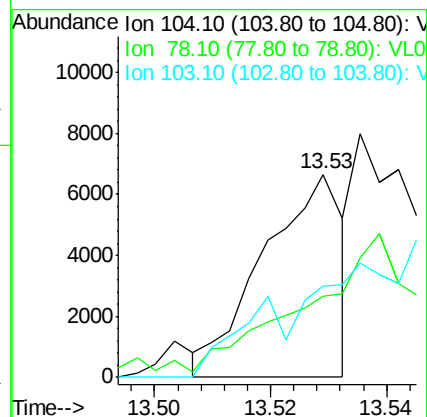
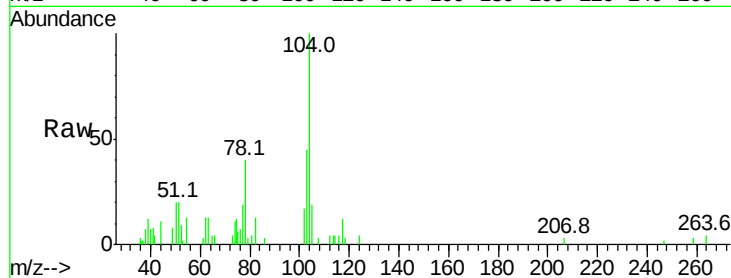




#61
Styrene
Concen: 0.027 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. -0.01 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

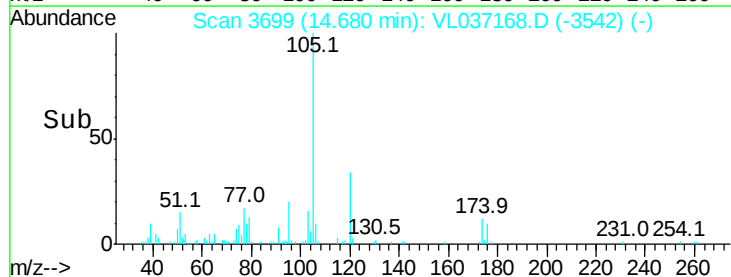
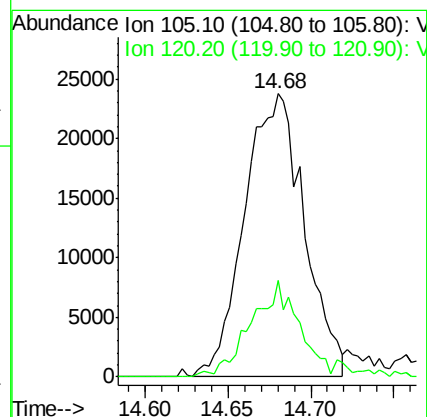
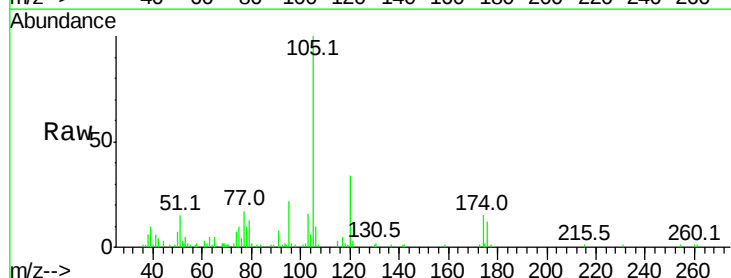
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

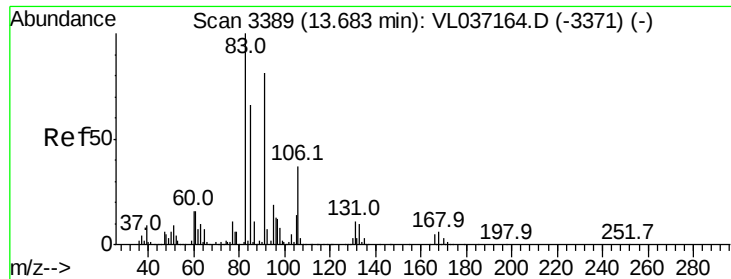
Tgt Ion:104 Resp: 6322
Ion Ratio Lower Upper
104 100
78 0.0 39.7 59.5#
103 0.0 37.6 56.4#



#62
Isopropylbenzene
Concen: 0.095 ppbv
RT: 14.68 min Scan# 3699
Delta R.T. 0.00 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

Tgt Ion:105 Resp: 59423
Ion Ratio Lower Upper
105 100
120 29.7 21.6 32.4

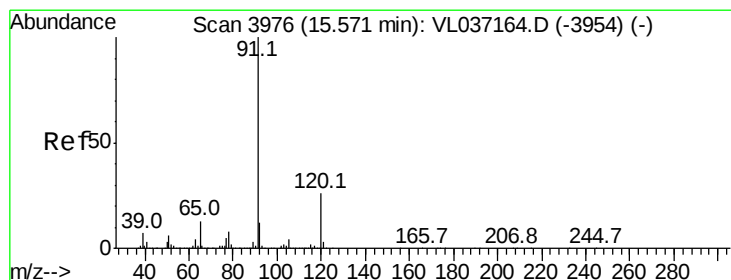
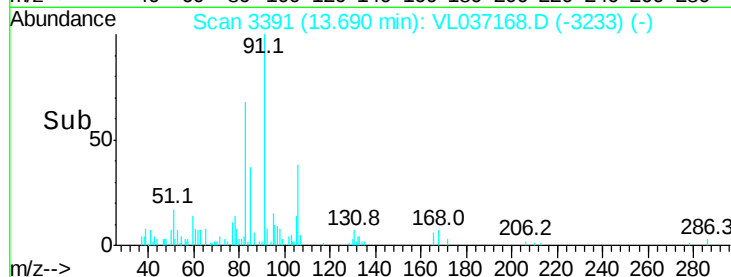
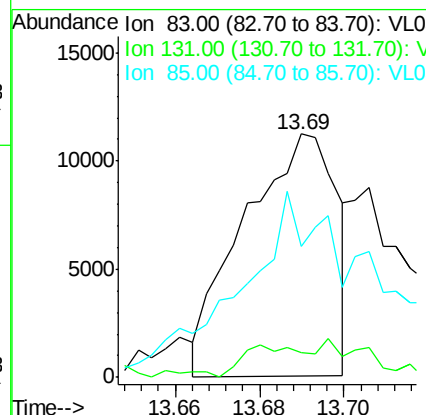
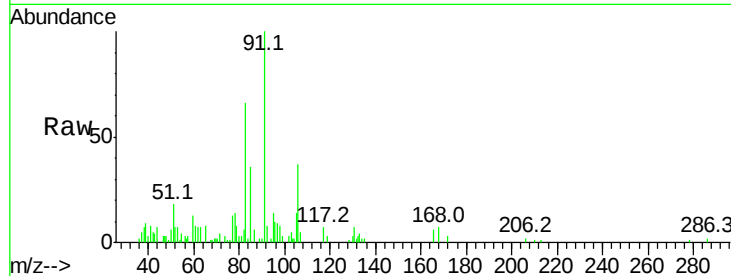




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.060 ppbv
 RT: 13.69 min Scan# 3391
 Delta R.T. 0.01 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

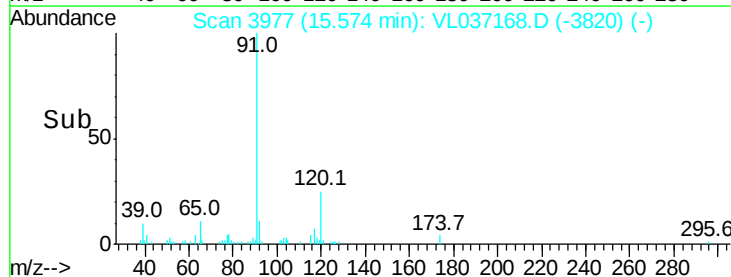
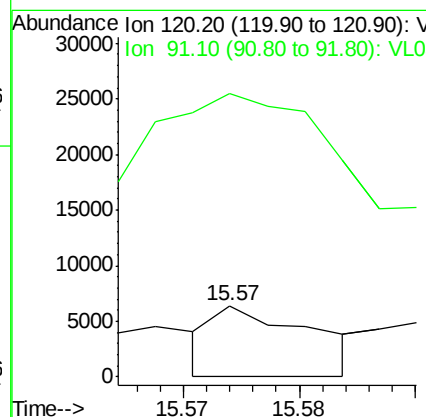
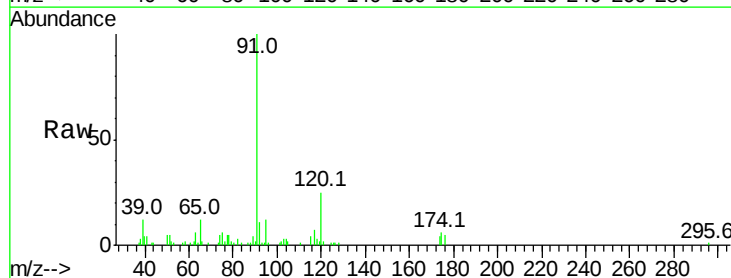
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

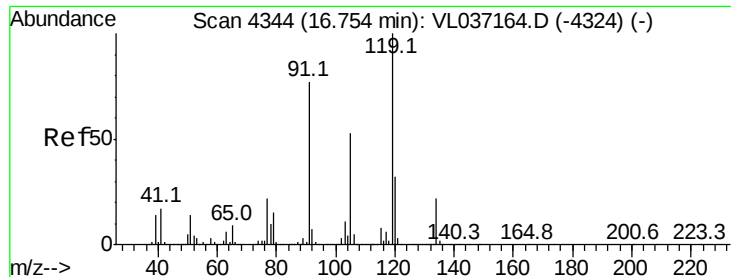
Tgt Ion: 83 Resp: 17164
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.4 16.2#
 85 132.8 33.1 99.2#



#64
 n-propylbenzene
 Concen: 0.024 ppbv
 RT: 15.57 min Scan# 3977
 Delta R.T. 0.00 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

Tgt Ion: 120 Resp: 3747
 Ion Ratio Lower Upper
 120 100
 91 1965.8 343.3 514.9#





#65

tert-Butylbenzene

Concen: 0.035 ppbv

RT: 16.75 min Scan# 4343

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

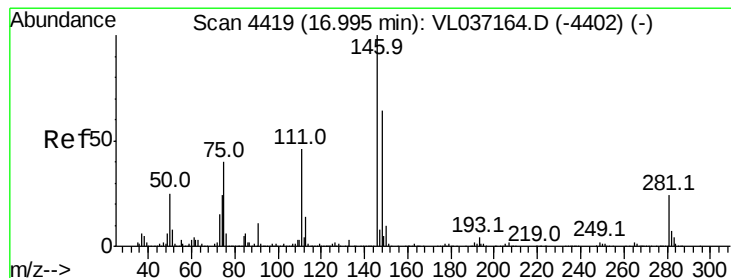
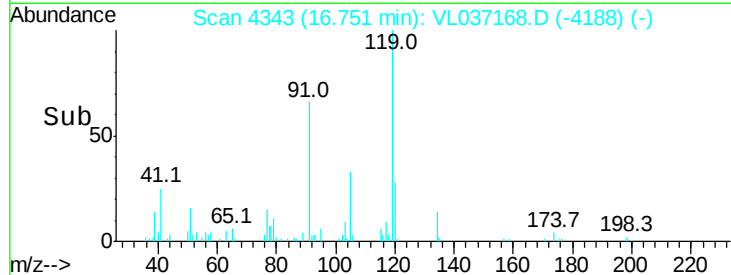
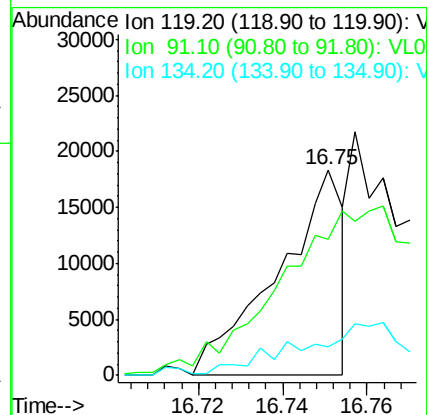
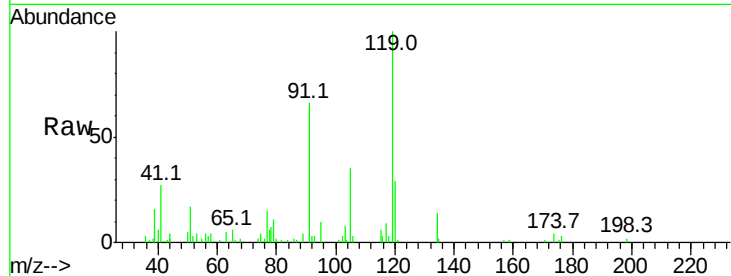
Tgt Ion: 119 Resp: 19822

Ion Ratio Lower Upper

119 100

91 0.0 62.6 93.8#

134 0.0 16.2 24.4#



#66

Benzyl Chloride

Concen: 0.022 ppbv

RT: 16.99 min Scan# 4416

Delta R.T. -0.01 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

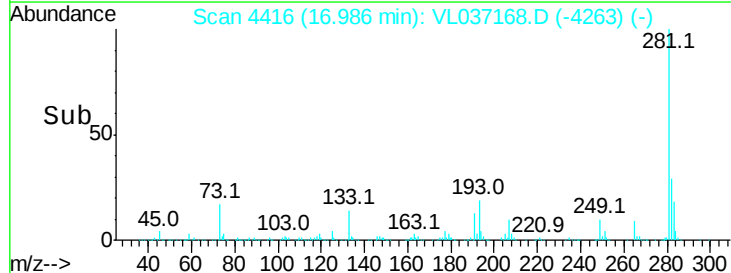
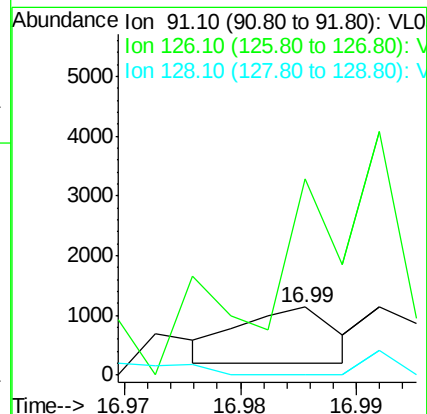
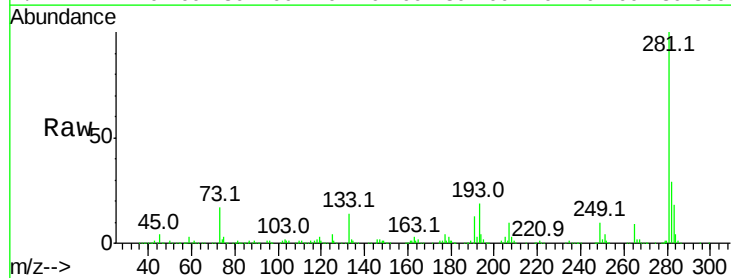
Tgt Ion: 91 Resp: 540

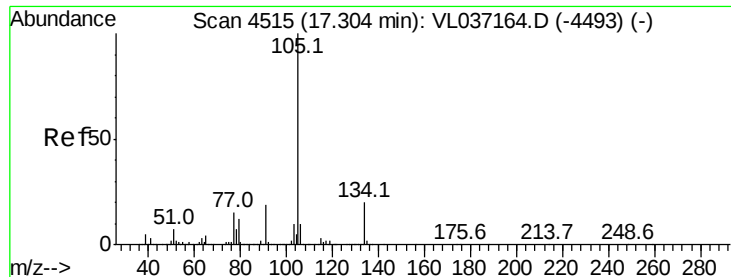
Ion Ratio Lower Upper

91 100

126 774.6 15.5 23.3#

128 49.4 5.7 8.5#





#67

sec-Butylbenzene

Concen: 0.045 ppbv

RT: 17.30 min Scan# 4515

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

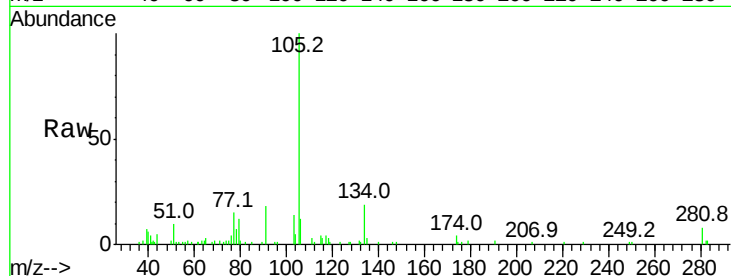
VSTDIC0.1

Tgt Ion:105 Resp: 33366

Ion Ratio Lower Upper

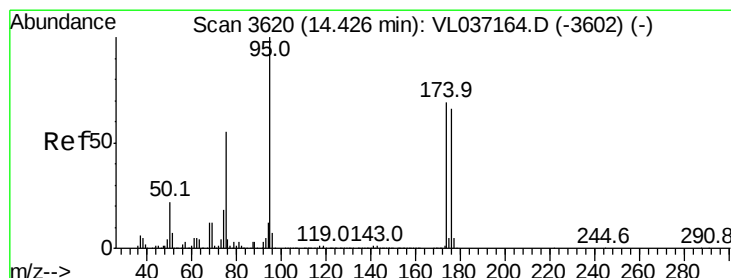
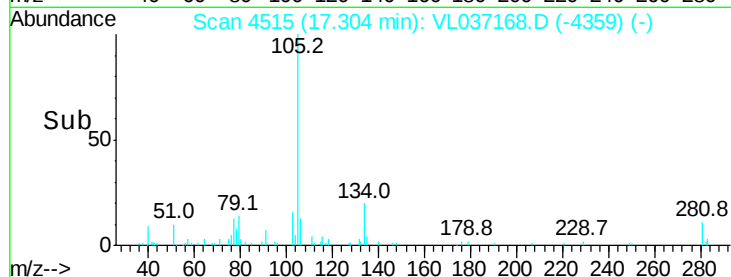
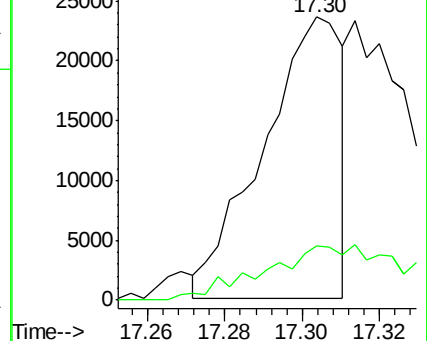
105 100

134 0.0 15.8 23.6#



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: 10.400 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

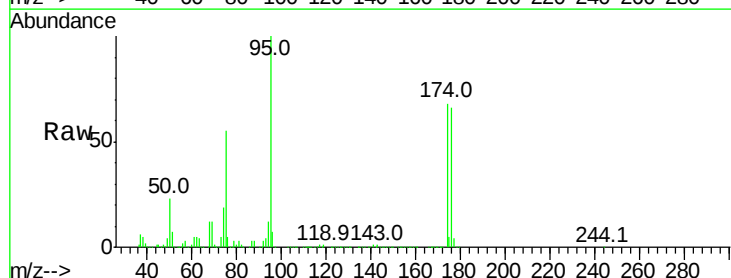
Tgt Ion: 95 Resp: 3027667

Ion Ratio Lower Upper

95 100

174 71.1 57.0 85.4

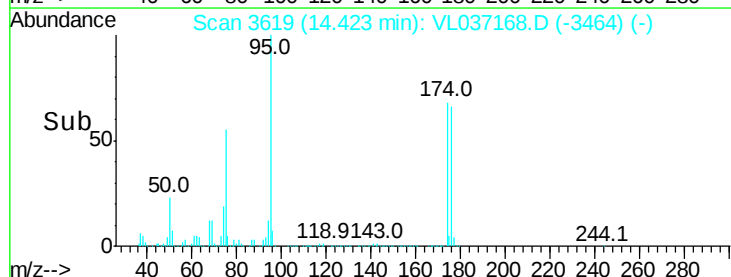
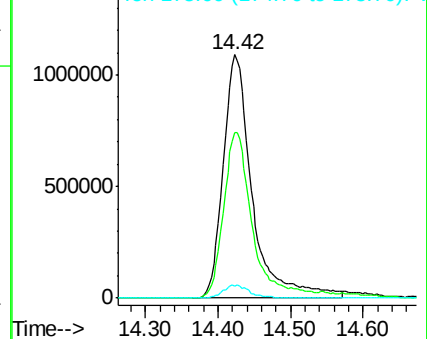
175 5.1 4.4 6.6

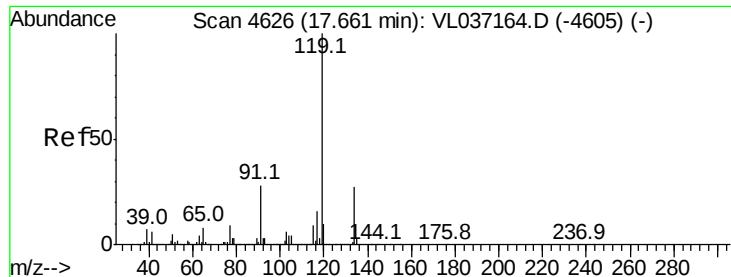


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

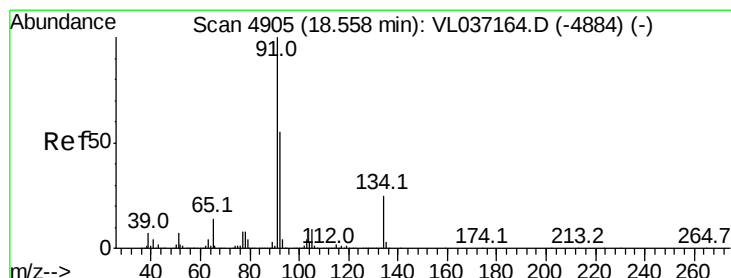
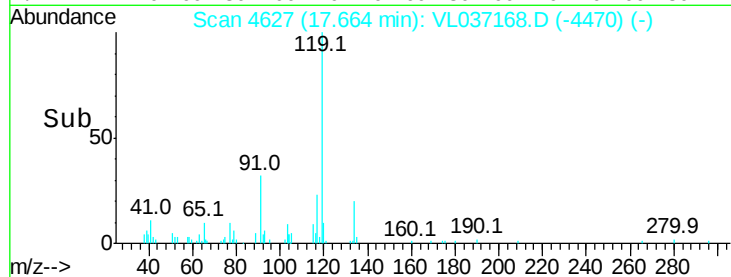
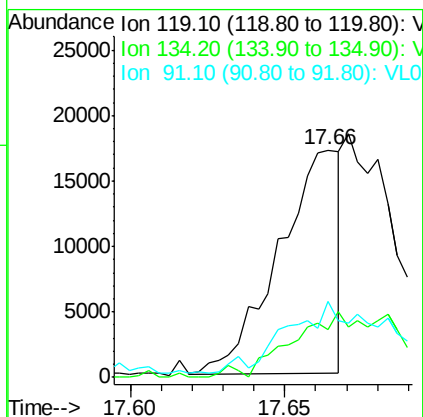
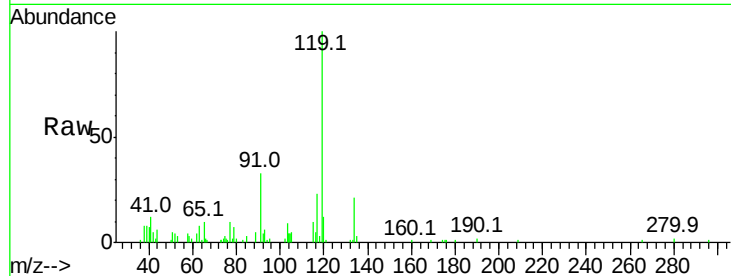




#69
p-Isopropyltoluene
Concen: 0.037 ppbv
RT: 17.66 min Scan# 4627
Delta R.T. 0.00 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

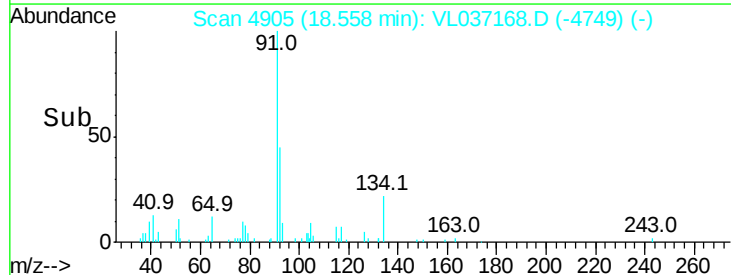
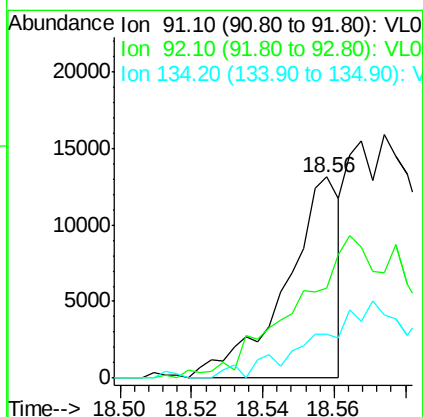
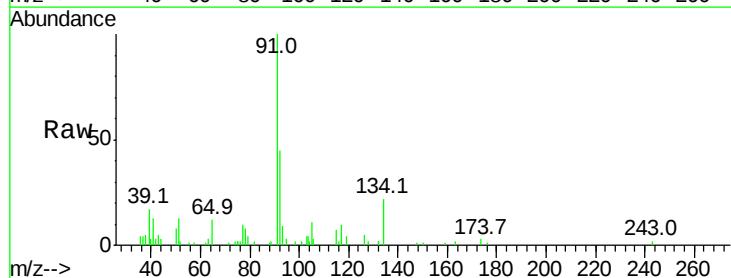
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

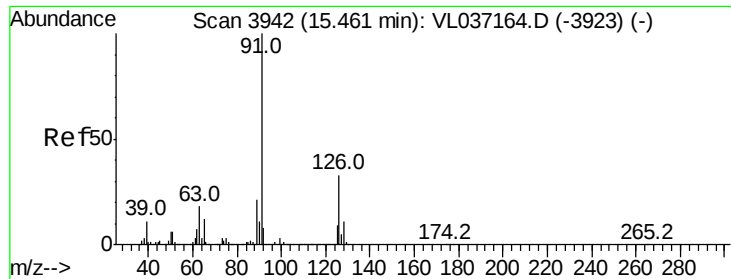
Tgt Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.9	31.3#
91	73.8	22.6	34.0#



#70
n-Butylbenzene
Concen: 0.024 ppbv
RT: 18.56 min Scan# 4905
Delta R.T. 0.00 min
Lab File: VL037168.D
Acq: 16 Jun 2021 11:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	44.0	66.0#
134	0.0	20.2	30.4#





#71

2-Chlorotoluene

Concen: 0.089 ppbv

RT: 15.46 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

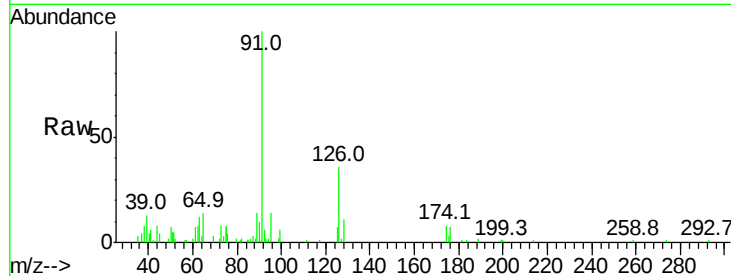
VSTDIC0.1

Tgt Ion: 91 Resp: 39581

Ion Ratio Lower Upper

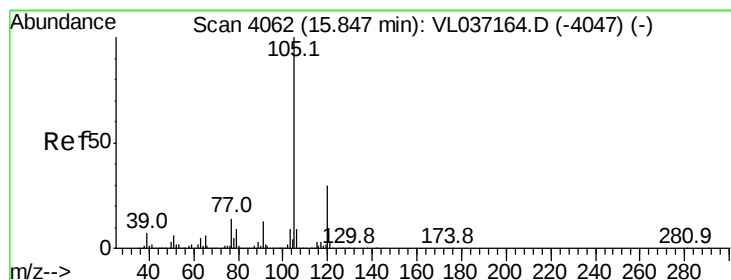
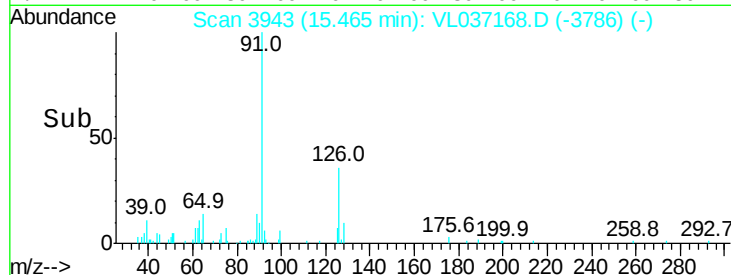
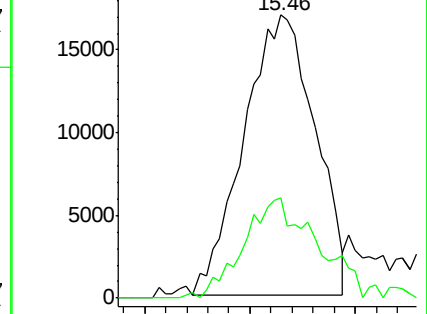
91 100

126 38.8 13.5 54.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.070 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Tgt Ion: 105 Resp: 35774

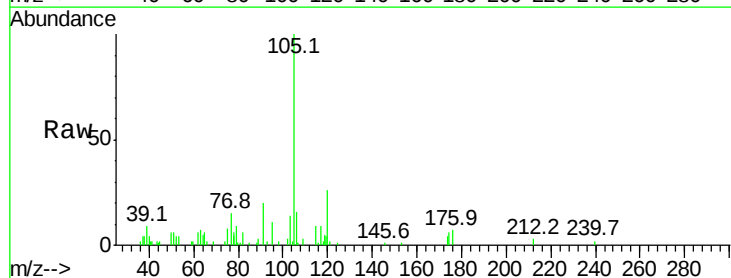
Ion Ratio Lower Upper

105 100

120 38.7 24.7 37.1#

91 18.7 10.2 15.4#

77 20.2 11.0 16.6#

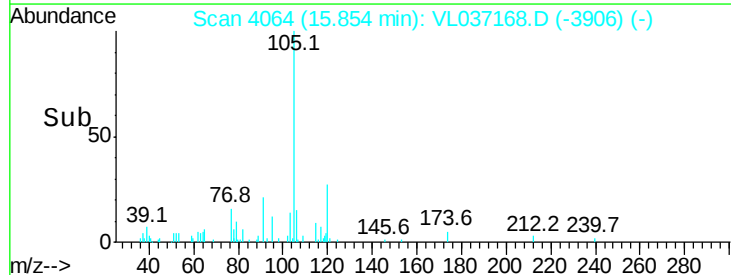
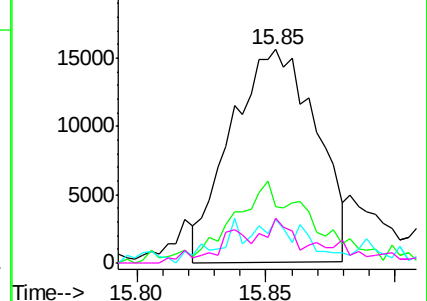


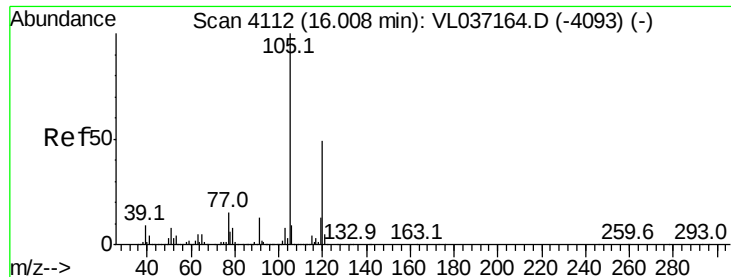
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.041 ppbv

RT: 16.01 min Scan# 4112

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

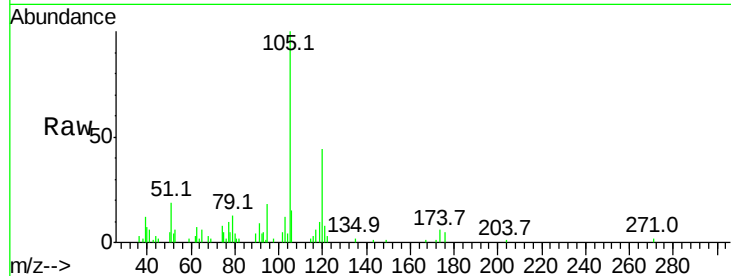
VSTDIC0.1

Tgt Ion:105 Resp: 19721

Ion Ratio Lower Upper

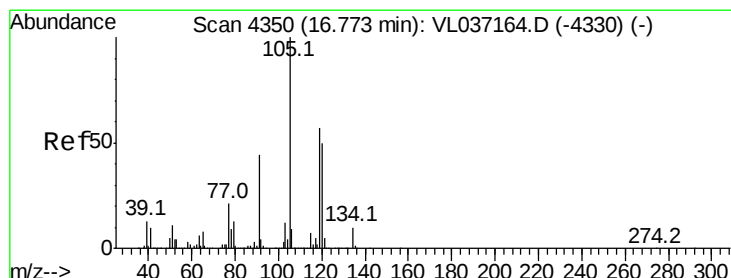
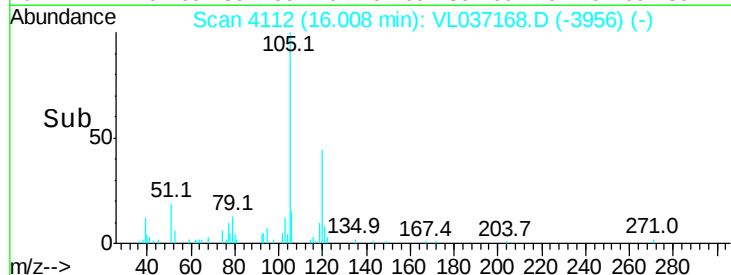
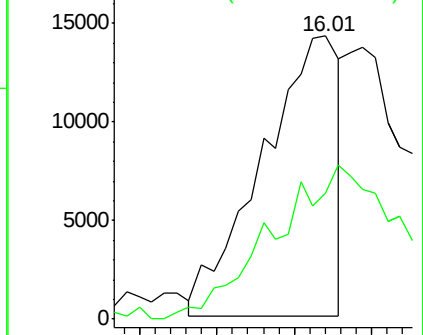
105 100

120 42.8 39.4 59.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.096 ppbv

RT: 16.78 min Scan# 4351

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Tgt Ion:105 Resp: 47075

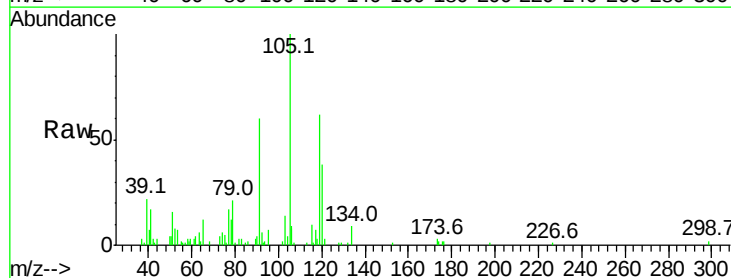
Ion Ratio Lower Upper

105 100

120 33.7 39.8 59.8#

91 51.0 37.0 55.4

77 13.4 17.0 25.4#

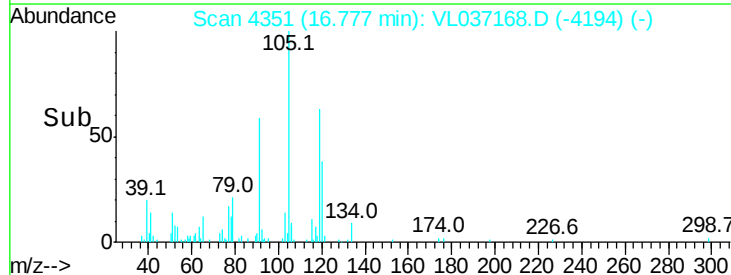
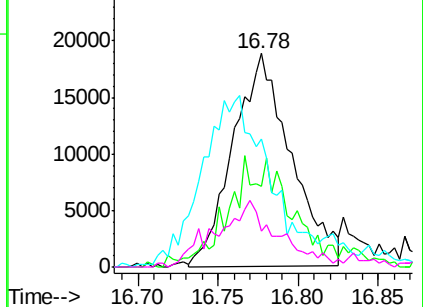


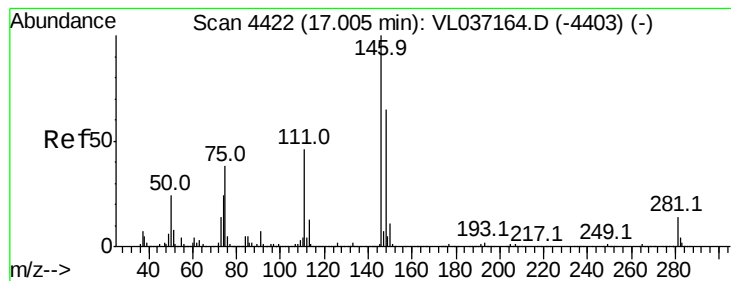
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.032 ppbv

RT: 17.00 min Scan# 4420

Delta R.T. -0.01 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

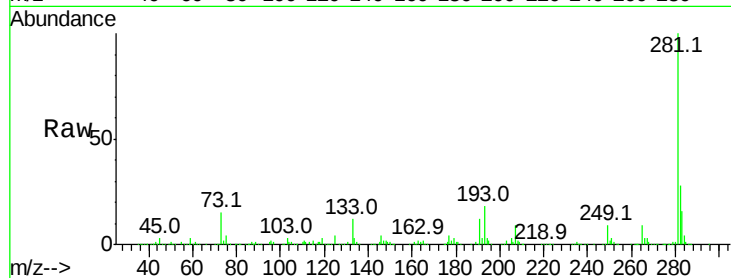
Tgt Ion:146 Resp: 9514

Ion Ratio Lower Upper

146 100

111 237.8 22.2 66.6#

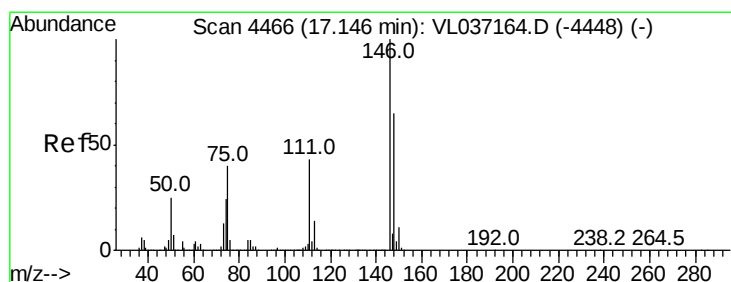
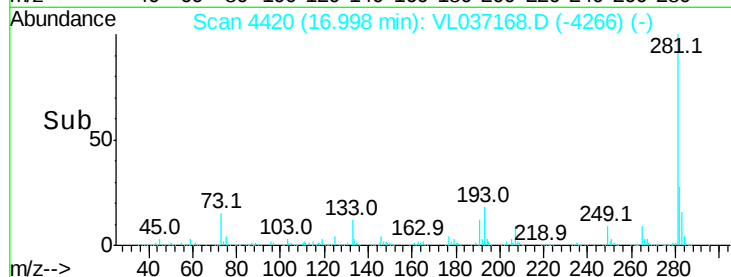
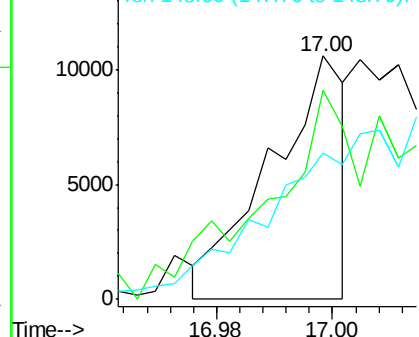
148 0.0 32.4 97.2#



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: 0.036 ppbv

RT: 17.14 min Scan# 4465

Delta R.T. -0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

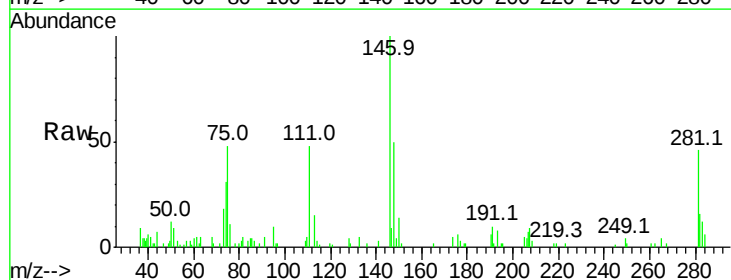
Tgt Ion:146 Resp: 10690

Ion Ratio Lower Upper

146 100

111 158.8 22.7 68.0#

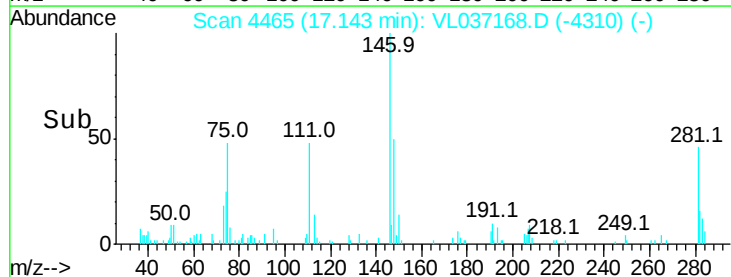
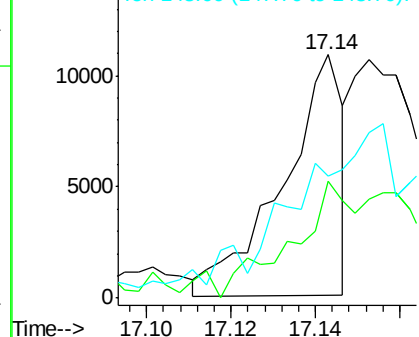
148 0.0 33.7 101.1#

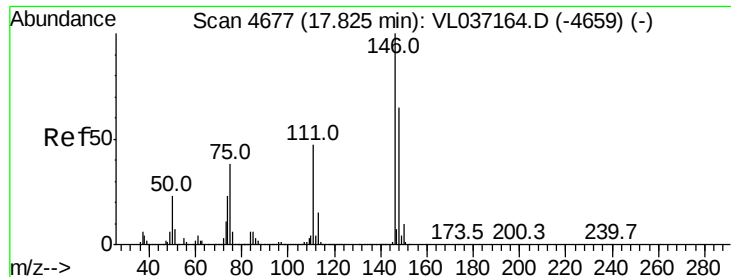


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

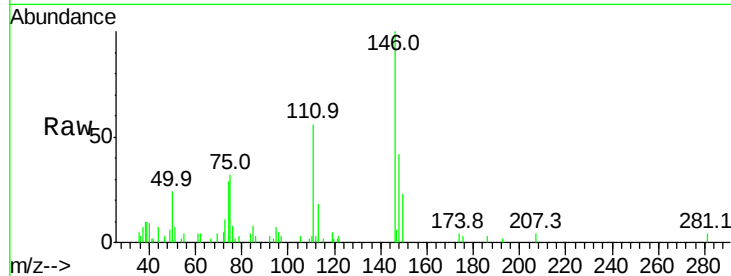




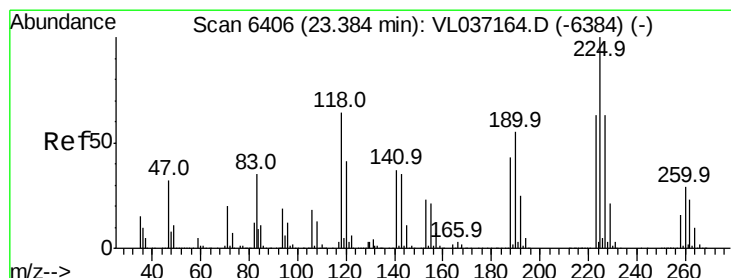
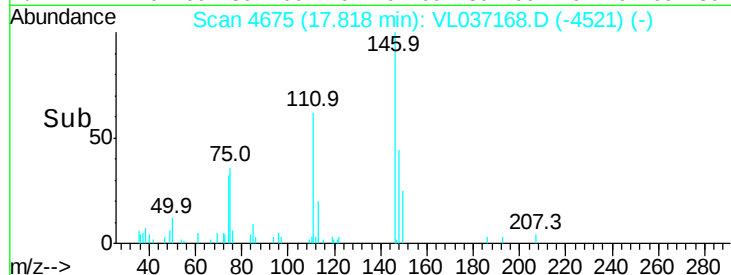
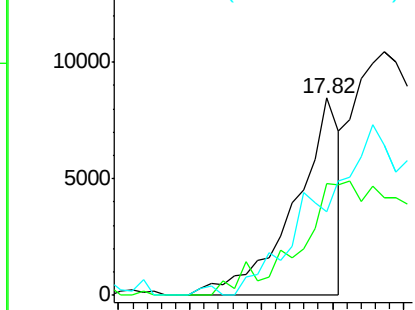
#77
 1,2-Dichlorobenzene
 Concen: 0.025 ppbv
 RT: 17.82 min Scan# 4675
 Delta R.T. -0.01 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:146 Resp: 7422
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.3 69.8#
 148 0.0 32.4 97.0#

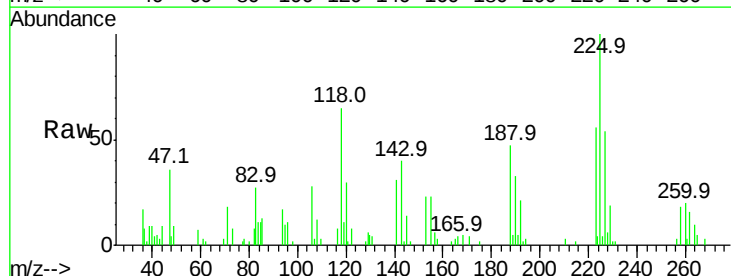


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

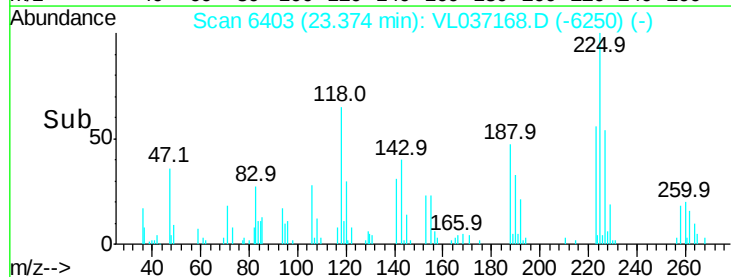
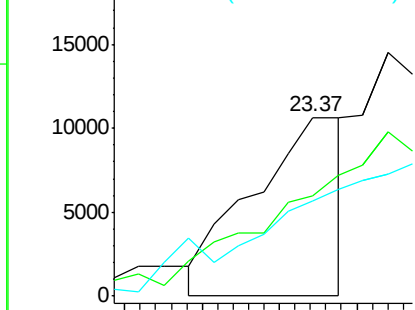


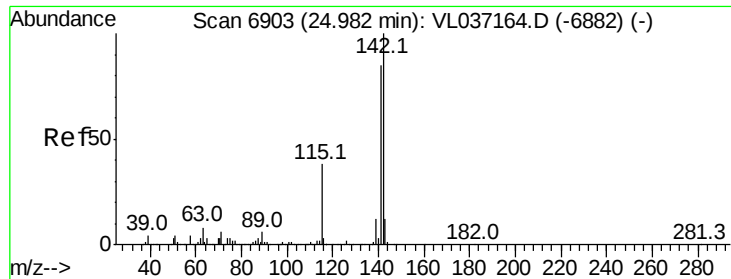
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.042 ppbv
 RT: 23.37 min Scan# 6403
 Delta R.T. -0.01 min
 Lab File: VL037168.D
 Acq: 16 Jun 2021 11:56

Tgt Ion:225 Resp: 8864
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.8 77.8#
 227 0.0 51.4 77.0#



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#80

Naphthalene, 2-methyl-

Concen: 0.029 ppbv

RT: 25.16 min Scan# 6959

Delta R.T. 0.18 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

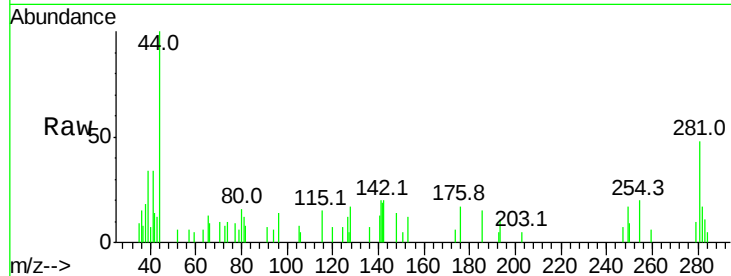
Tgt Ion:142 Resp: 2067

Ion Ratio Lower Upper

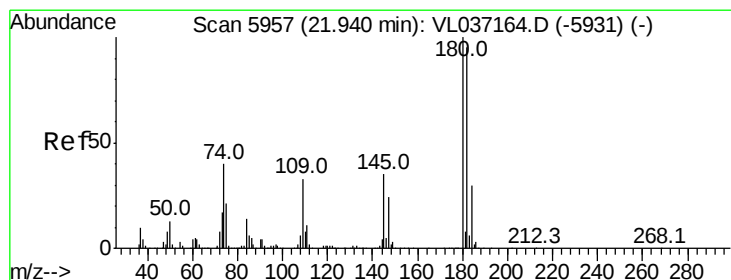
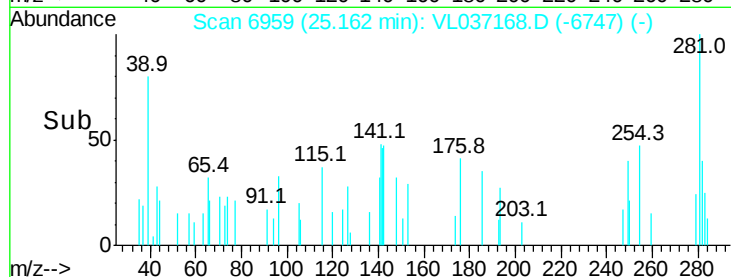
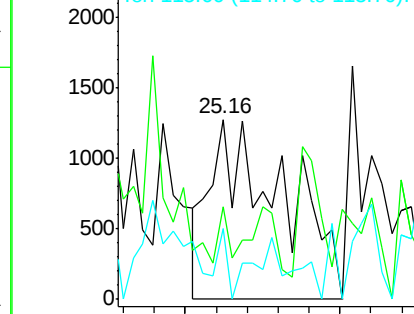
142 100

141 86.4 63.7 95.5

115 32.1 30.6 45.8



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: 0.047 ppbv

RT: 21.94 min Scan# 5958

Delta R.T. 0.00 min

Lab File: VL037168.D

Acq: 16 Jun 2021 11:56

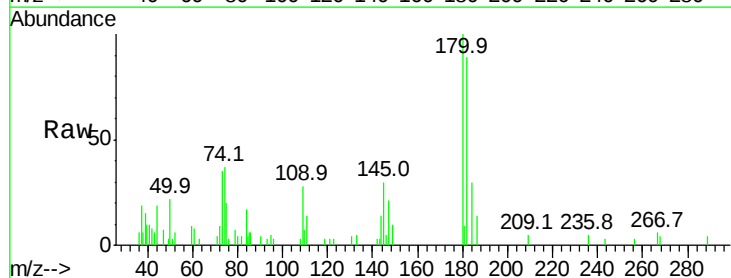
Tgt Ion:180 Resp: 8750

Ion Ratio Lower Upper

180 100

182 0.0 79.3 118.9#

184 0.0 24.7 37.1#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

