

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101220\
 Data File : VL035775.D
 Acq On : 12 Oct 2020 23:37
 Operator : SY/AP
 Sample : L4214-13 LOD 0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Quant Time: Oct 13 02:03:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1019209	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	3939058	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.10	117	3876919	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2839006	9.77	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	32658	0.195 ppbv	97
3) Chlorodifluoromethane	2.98	51	14475	0.132 ppbv	94
4) Chloromethane	3.14	50	8346	0.142 ppbv	98
5) Vinyl Chloride	3.26	62	8460	0.121 ppbv #	85
6) Bromomethane	3.47	94	7673	0.130 ppbv	91
7) Chloroethane	3.55	64	3164	0.124 ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	27381	0.135 ppbv	100
9) Propene	3.01	41	7472	0.188 ppbv	93
10) Heptane	8.13	43	7871	0.071 ppbv	92
11) Trichlorofluoromethane	3.95	101	31065	0.130 ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.48	101	23204	0.130 ppbv	100
14) Bromoethene	3.74	108	9093	0.121 ppbv	96
15) Acetone	3.87	43	27278	0.249 ppbv #	63
16) 1,3-Butadiene	3.32	39	2262	0.056 ppbv #	19
18) 1,1-Dichloroethene	4.29	96	9432	0.121 ppbv #	90
19) Isopropyl Alcohol	3.98	45	3927	0.066 ppbv #	89
20) Methylene Chloride	4.34	84	21971	0.273 ppbv	94
21) Allyl Chloride	4.41	41	6259	0.118 ppbv	90
22) trans-1,2-Dichloroethene	4.89	96	10526	0.128 ppbv	87
23) Vinyl Acetate	5.08	43	16359	0.122 ppbv #	91
24) 1,1-Dichloroethane	5.01	63	18655	0.128 ppbv	96
25) Ethyl Acetate	5.69	43	22734	0.115 ppbv	99
26) Hexane	5.69	57	12282	0.114 ppbv	91
27) Carbon Disulfide	4.55	76	17170	0.107 ppbv #	79
28) Methyl tert-Butyl Ether	5.05	73	17330	0.101 ppbv	100
29) Chloroform	5.75	83	29311	0.133 ppbv	96
31) cis-1,2-Dichloroethene	5.55	61	11539	0.111 ppbv #	82
32) 1,1,1-Trichloroethane	6.51	97	22956	0.119 ppbv	97
34) 2-Butanone	5.26	43	14737	0.113 ppbv #	88
35) Carbon Tetrachloride	7.02	117	22275	0.108 ppbv #	90
36) Benzene	6.89	78	24632	0.096 ppbv	99
37) 1,2-Dichloroethane	6.31	62	8718	0.065 ppbv #	85
38) Trichloroethene	7.84	130	14020	0.109 ppbv	89
39) 1,2-Dichloropropane	7.62	63	9936	0.107 ppbv	91
40) 1,4-Dioxane	7.91	88	3122	0.073 ppbv #	69
42) Bromodichloromethane	7.79	83	21912	0.102 ppbv	93
44) 2,2,4-Trimethylpentane	7.87	57	16437	0.045 ppbv #	45
45) t-1,3-Dichloropropene	9.29	75	6516	0.063 ppbv	99
46) cis-1,3-Dichloropropene	8.71	75	6090	0.048 ppbv	93
47) 1,1,2-Trichloroethane	9.48	97	15490	0.116 ppbv	96
48) Dibromochloromethane	10.31	129	16162	0.080 ppbv	99

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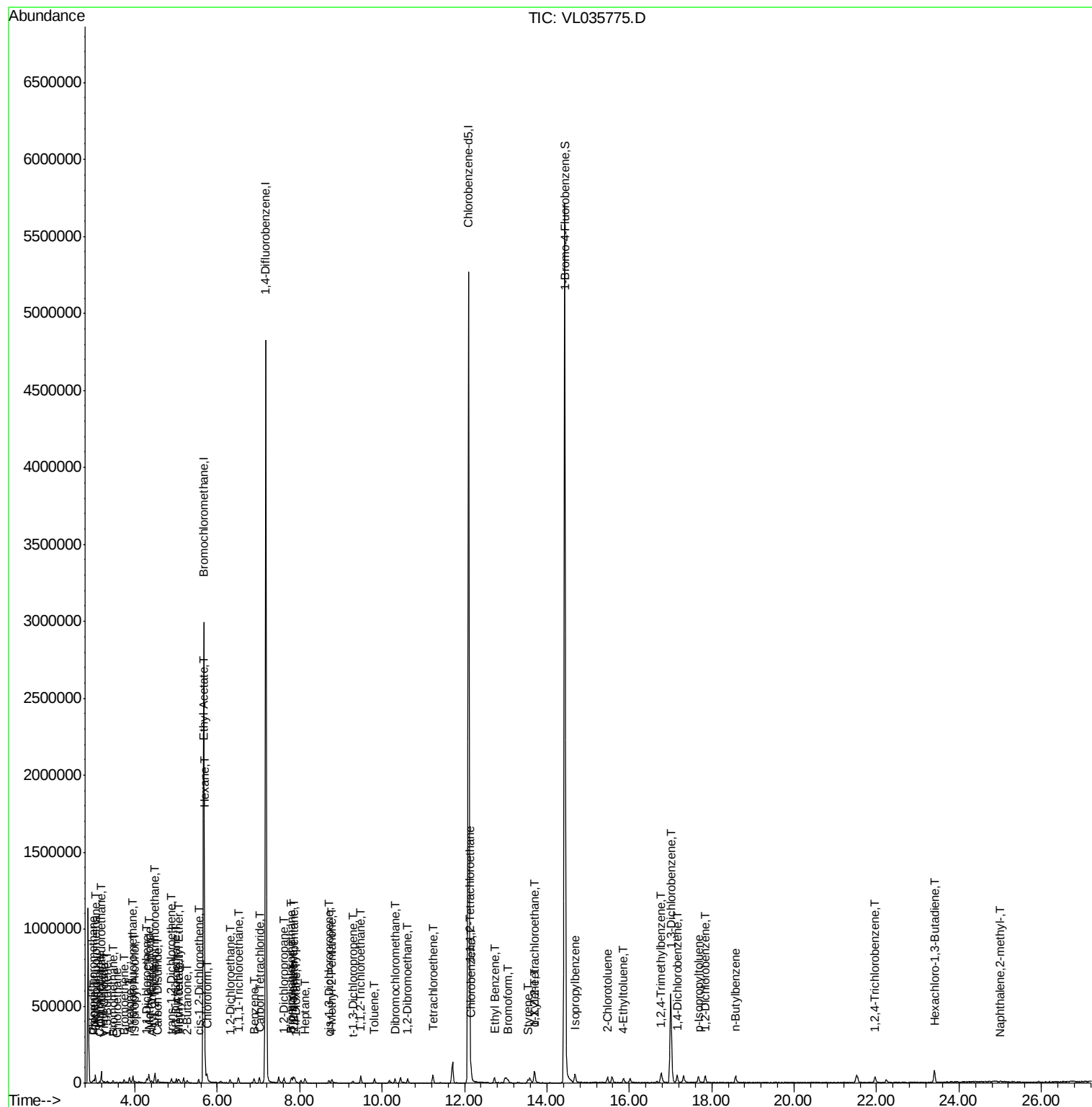
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Bromoform	13.05	173	6630	0.039	ppbv #	32
50) 4-Methyl-2-Pentanone	8.78	43	14204	0.075	ppbv	94
52) Tetrachloroethene	11.23	164	11354	0.092	ppbv	93
53) Toluene	9.81	91	13502	0.045	ppbv #	56
54) 1,2-Dibromoethane	10.62	107	13030	0.065	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.14	131	7999	0.049	ppbv #	1
57) Chlorobenzene	12.16	112	38671	0.132	ppbv #	93
58) Ethyl Benzene	12.72	91	20387	0.052	ppbv	91
60) o-Xylene	13.70	91	17043	0.050	ppbv #	61
61) Styrene	13.54	104	13288	0.056	ppbv	98
62) Isopropylbenzene	14.69	105	43435	0.081	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.69	83	32017	0.114	ppbv	98
69) p-Isopropyltoluene	17.67	119	30635	0.056	ppbv	95
70) n-Butylbenzene	18.58	91	35070	0.063	ppbv	93
71) 2-Chlorotoluene	15.46	91	12906	0.033	ppbv #	39
72) 4-Ethyltoluene	15.86	105	25062	0.062	ppbv #	96
74) 1,2,4-Trimethylbenzene	16.78	105	27512	0.063	ppbv #	95
75) 1,3-Dichlorobenzene	17.01	146	39333	0.133	ppbv	96
76) 1,4-Dichlorobenzene	17.16	146	18538	0.065	ppbv #	51
77) 1,2-Dichlorobenzene	17.84	146	13195	0.047	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.39	225	6594	0.043	ppbv #	18
80) Naphthalene,2-methyl-	25.02	142	2984	0.031	ppbv	94
81) 1,2,4-Trichlorobenzene	21.96	180	8467	0.039	ppbv #	12

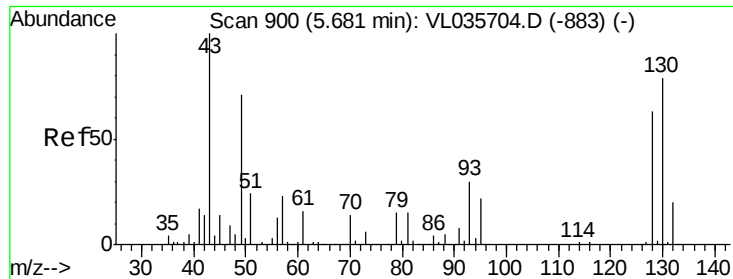
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.02 min

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ClientSampleId :

BFB

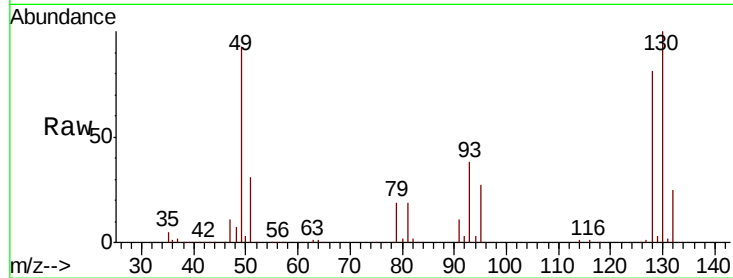
Tot Ion: 49 Resp: 1019209

Ion Ratio Lower Upper

49 100

128 86.3 43.1 129.4

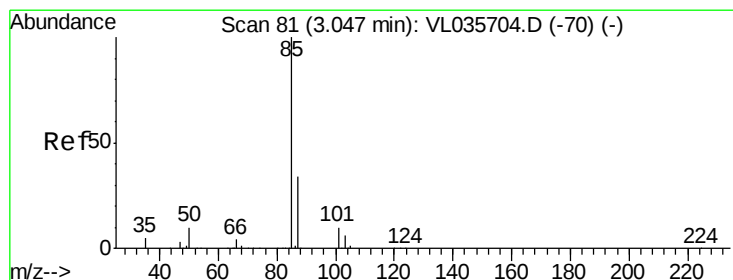
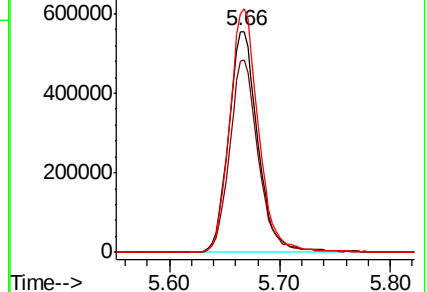
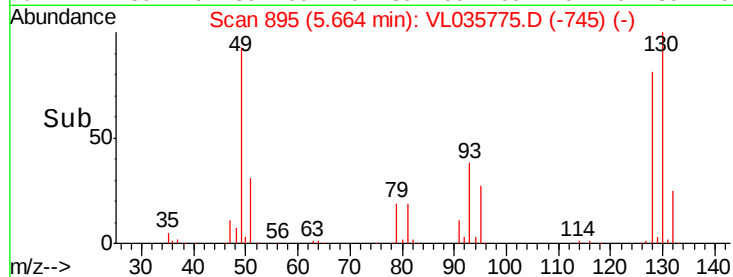
130 110.2 54.9 164.7



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: 0.195 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL035775.D

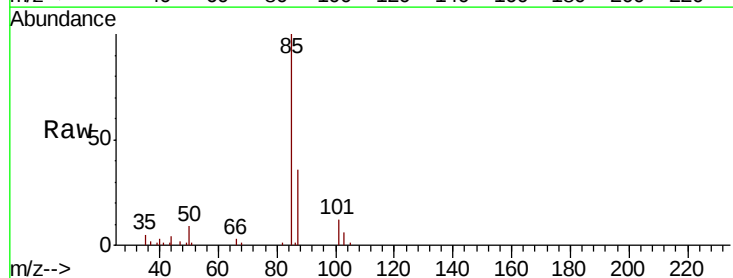
Acq: 12 Oct 2020 23:37

Tgt Ion: 85 Resp: 32658

Ion Ratio Lower Upper

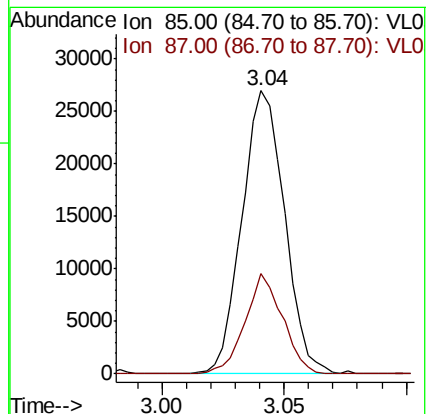
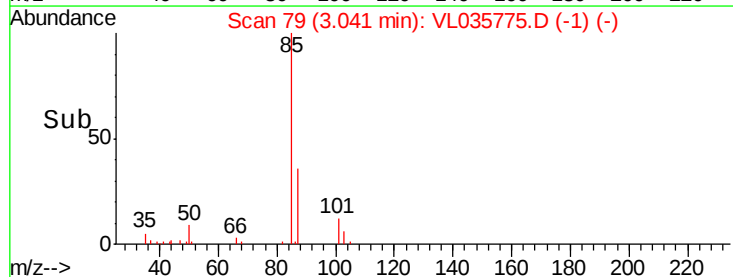
85 100

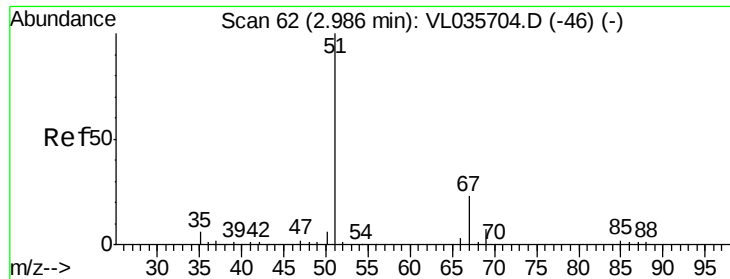
87 35.6 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.132 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

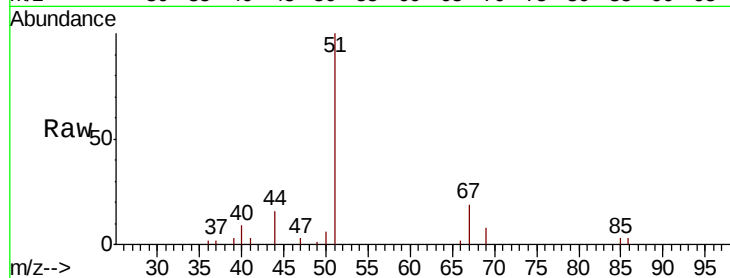
BFB

Tot Ion: 51 Resp: 14475

Ion Ratio Lower Upper

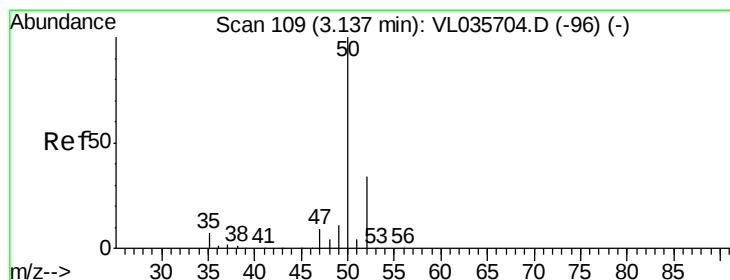
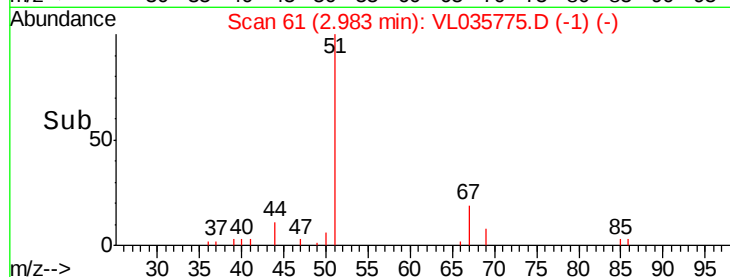
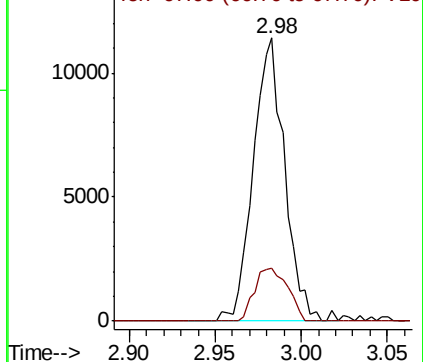
51 100

67 19.6 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.142 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035775.D

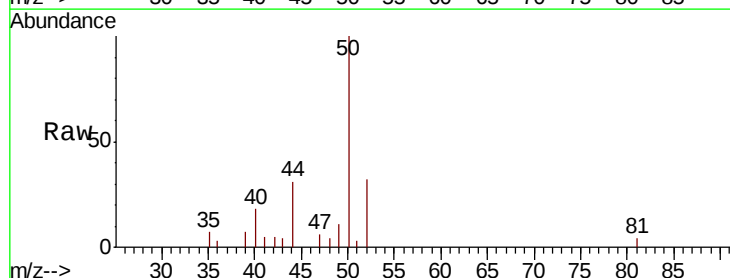
Acq: 12 Oct 2020 23:37

Tgt Ion: 50 Resp: 8346

Ion Ratio Lower Upper

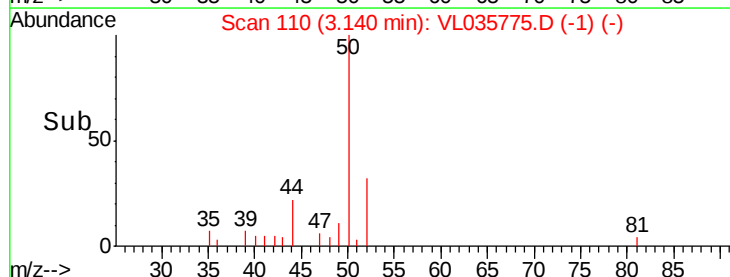
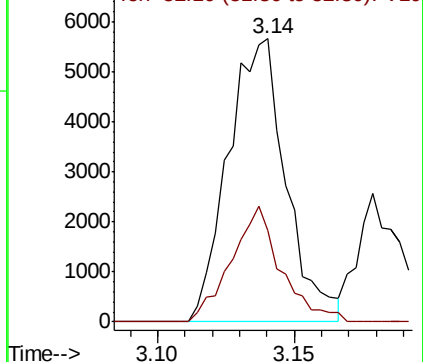
50 100

52 32.1 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.121 ppbv

RT: 3.26 min Scan# 146

Delta R.T. -0.00 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

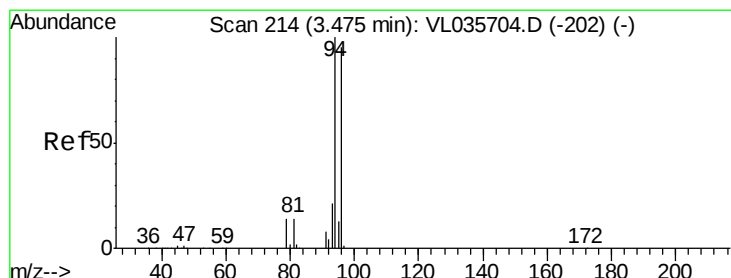
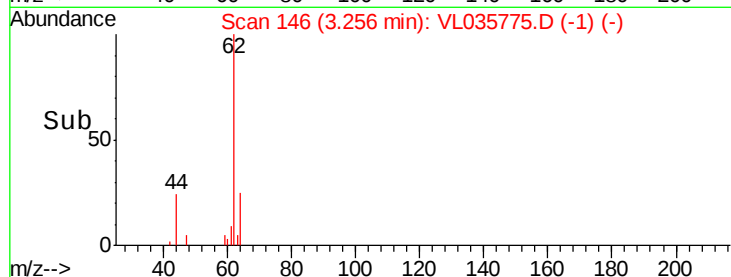
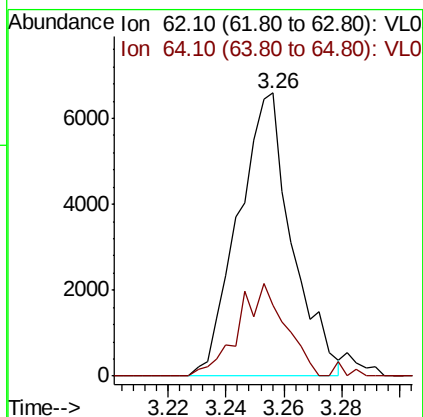
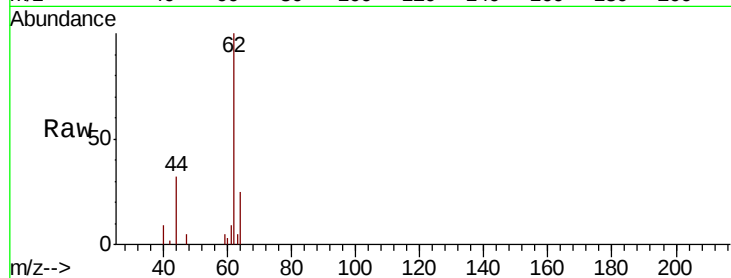
BFB

Tot Ion: 62 Resp: 8460

Ion Ratio Lower Upper

62 100

64 24.9 26.8 40.2#



#6

Bromomethane

Concen: 0.130 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL035775.D

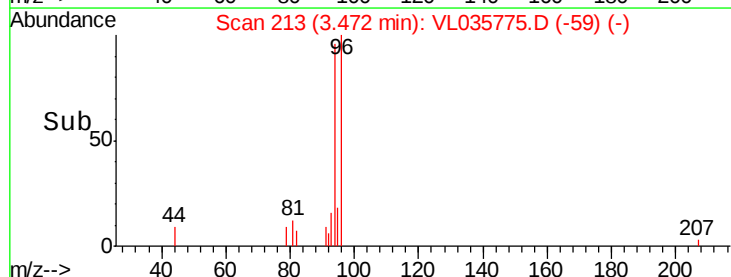
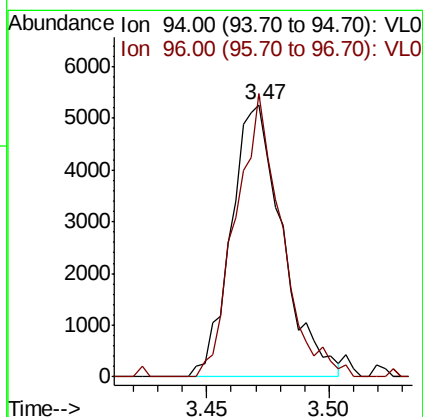
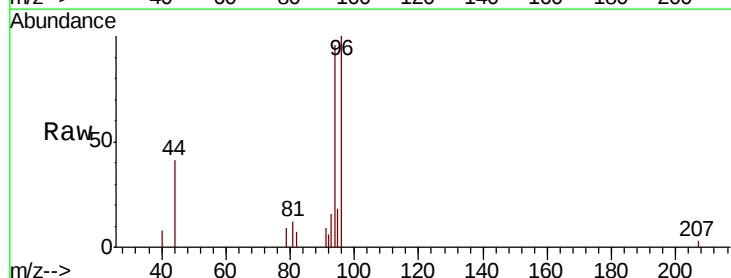
Acq: 12 Oct 2020 23:37

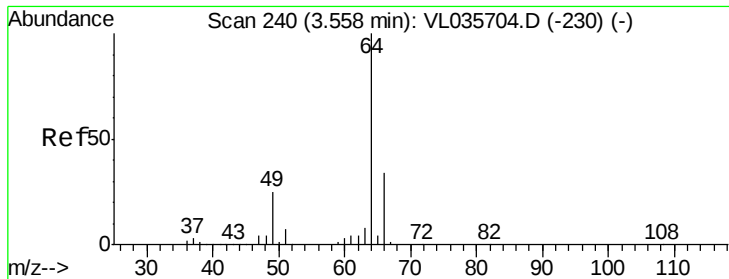
Tgt Ion: 94 Resp: 7673

Ion Ratio Lower Upper

94 100

96 103.9 76.3 114.5





#7

Chloroethane

Concen: 0.124 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

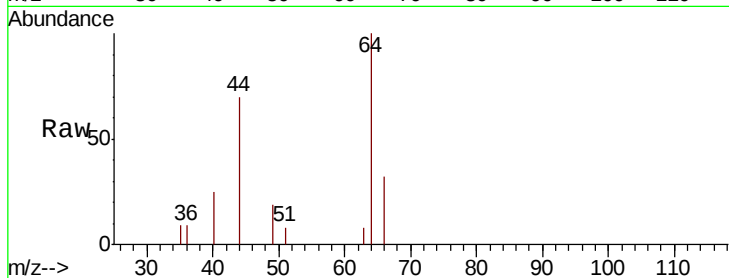
BFB

Tot Ion: 64 Resp: 3164

Ion Ratio Lower Upper

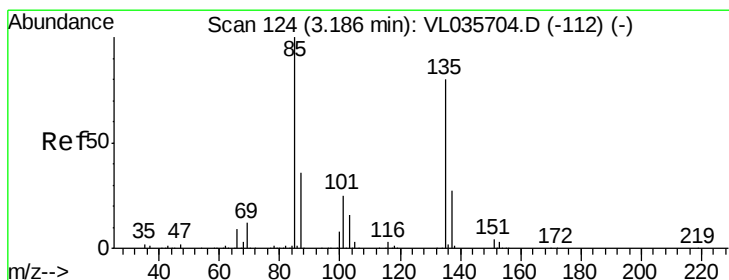
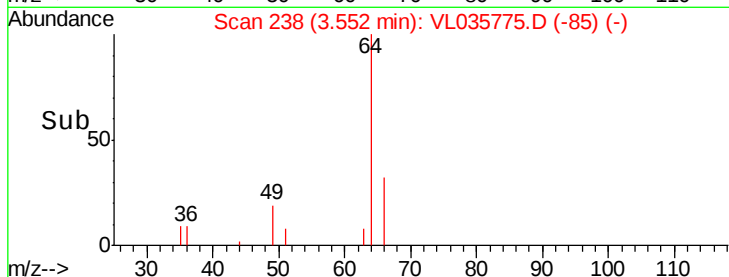
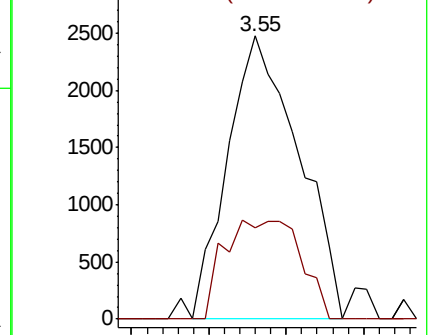
64 100

66 32.4 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.135 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL035775.D

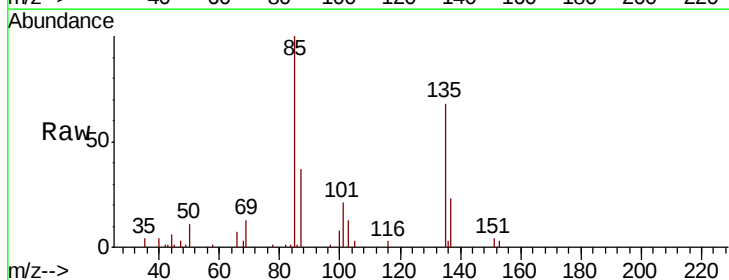
Acq: 12 Oct 2020 23:37

Tgt Ion: 85 Resp: 27381

Ion Ratio Lower Upper

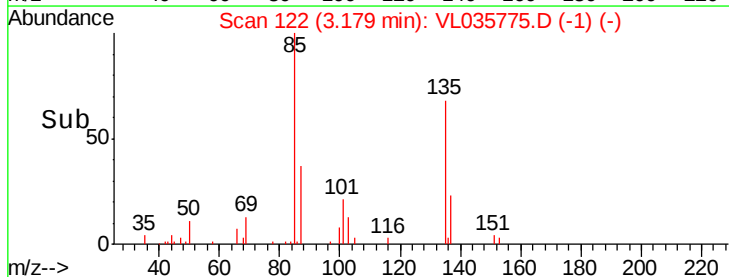
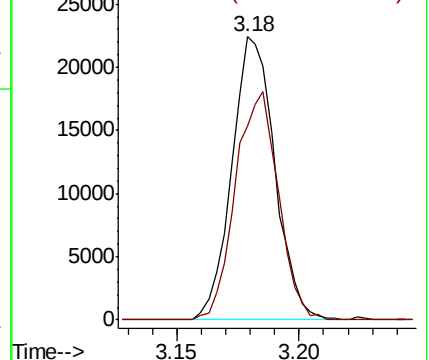
85 100

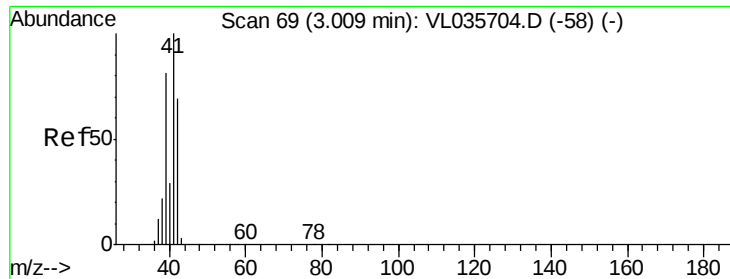
135 80.1 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.188 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

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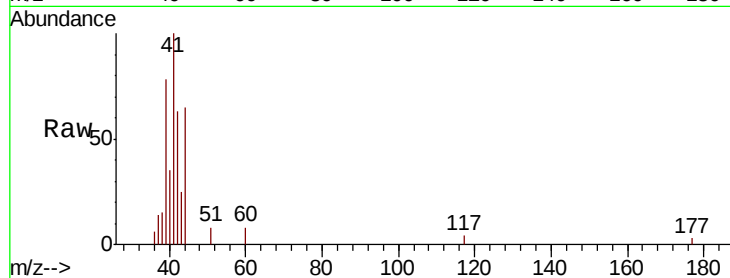
BFB

Tot Ion: 41 Resp: 7472

Ion Ratio Lower Upper

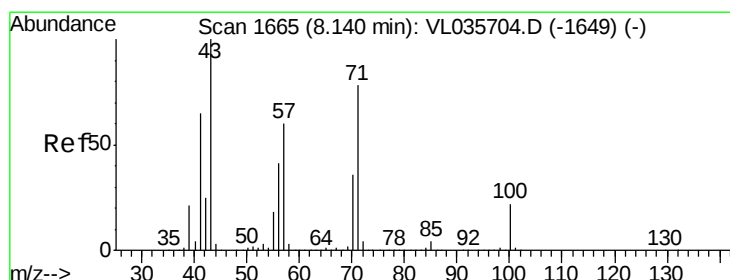
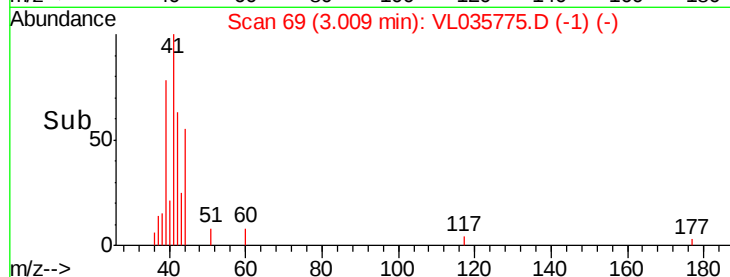
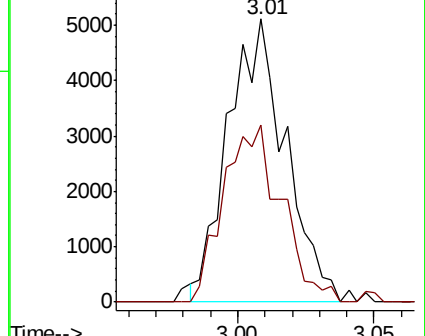
41 100

42 64.1 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.071 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.01 min

Lab File: VL035775.D

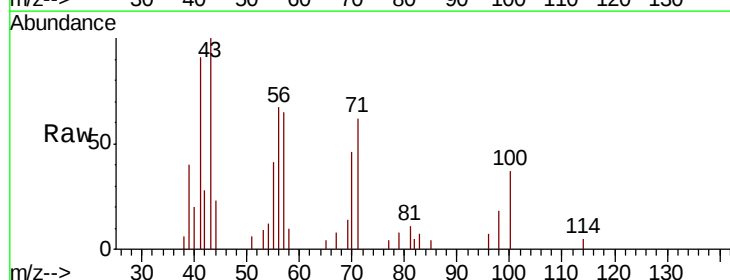
Acq: 12 Oct 2020 23:37

Tgt Ion: 43 Resp: 7871

Ion Ratio Lower Upper

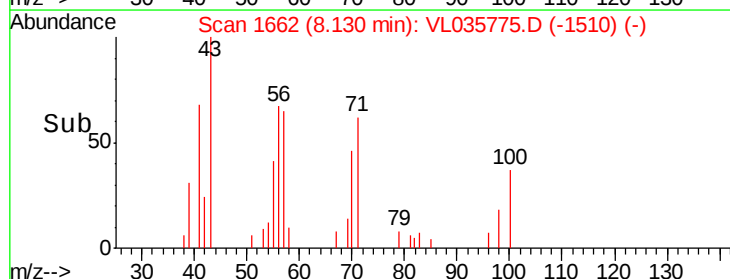
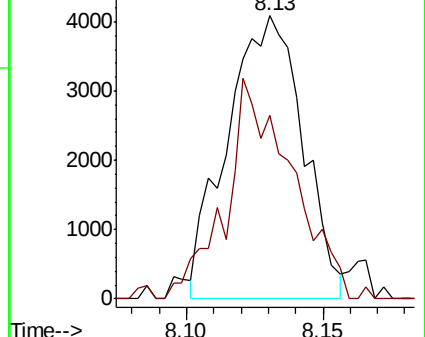
43 100

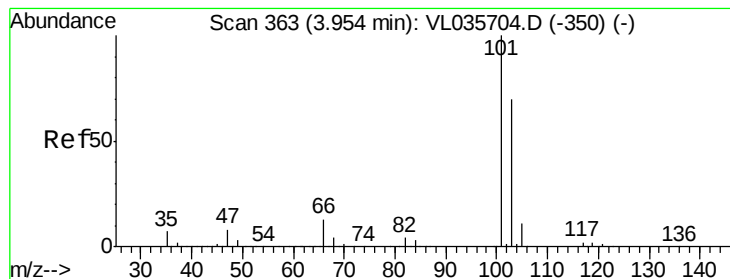
57 68.9 50.4 75.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.130 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

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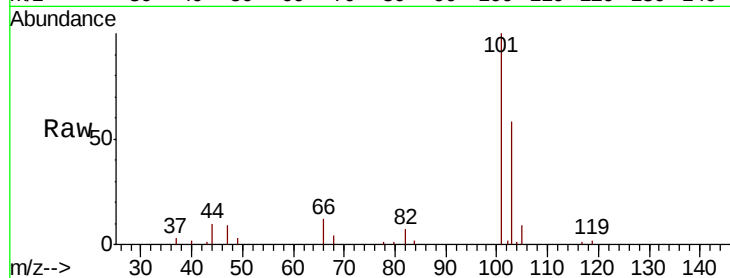
BFB

Tot Ion:101 Resp: 31065

Ion Ratio Lower Upper

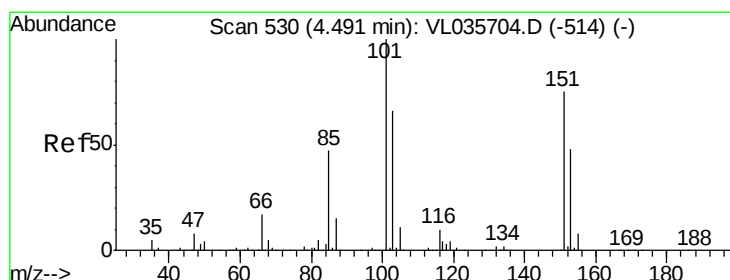
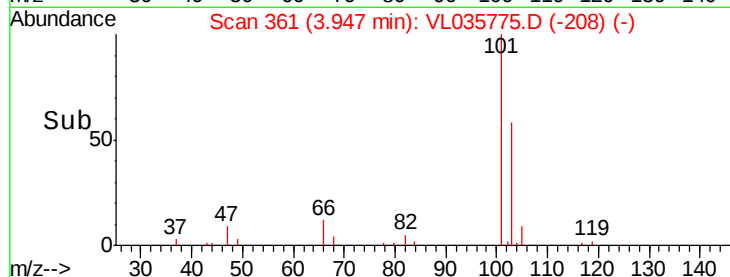
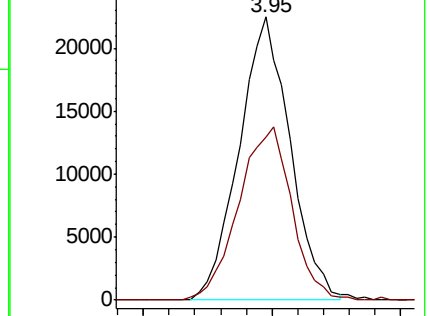
101 100

103 56.8 55.6 83.4



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: 0.130 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.01 min

Lab File: VL035775.D

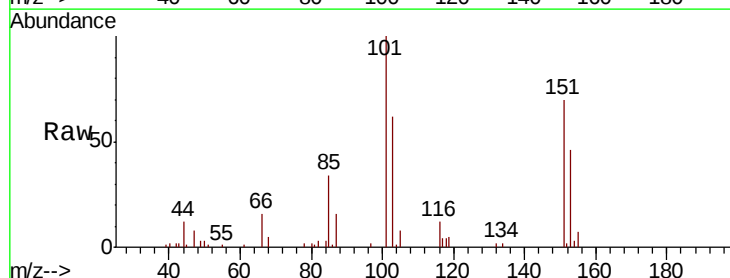
Acq: 12 Oct 2020 23:37

Tgt Ion:101 Resp: 23204

Ion Ratio Lower Upper

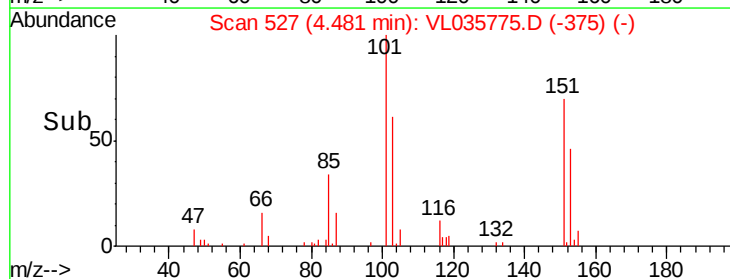
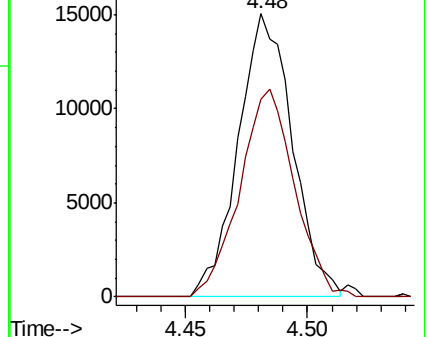
101 100

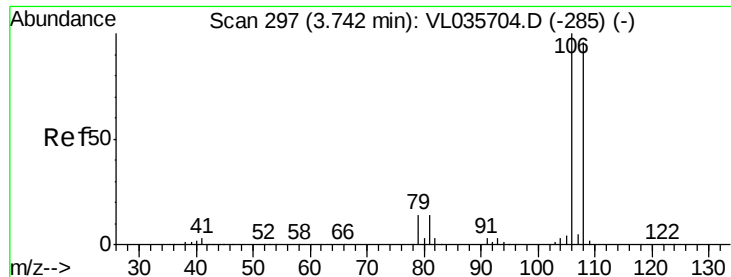
151 74.0 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#14

Bromoethene

Concen: 0.121 ppbv

RT: 3.74 min Scan# 295

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampled :

BFB

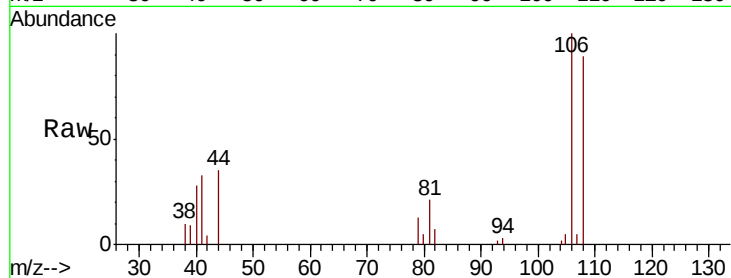
Tot Ion:108 Resp: 9093

Ion Ratio Lower Upper

108 100

106 109.2 84.6 126.8

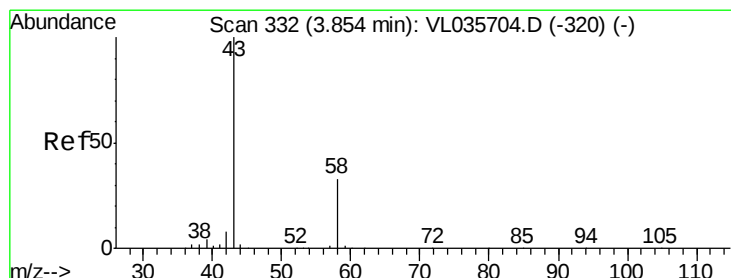
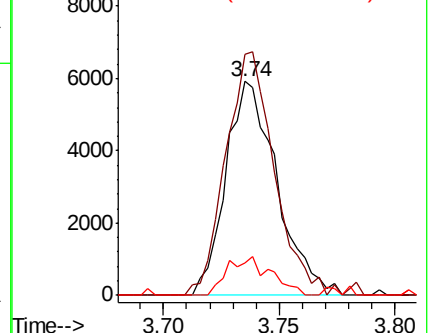
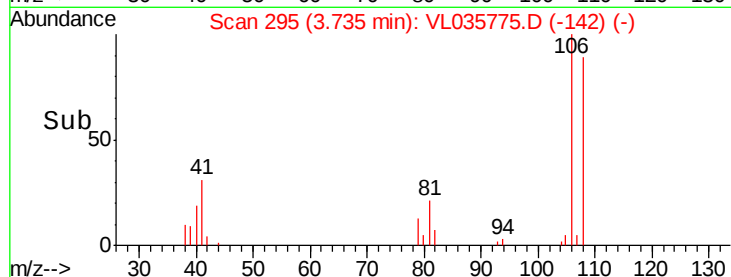
79 16.9 11.6 17.4



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0



#15

Acetone

Concen: 0.249 ppbv

RT: 3.87 min Scan# 336

Delta R.T. 0.01 min

Lab File: VL035775.D

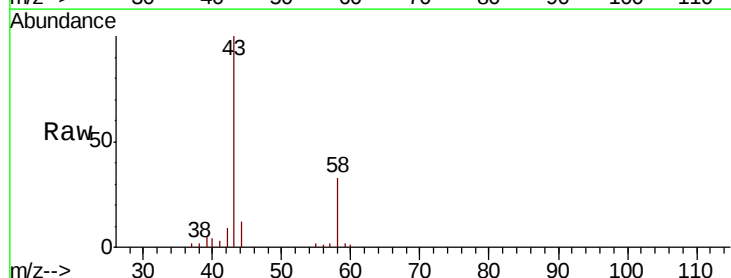
Acq: 12 Oct 2020 23:37

Tgt Ion: 43 Resp: 27278

Ion Ratio Lower Upper

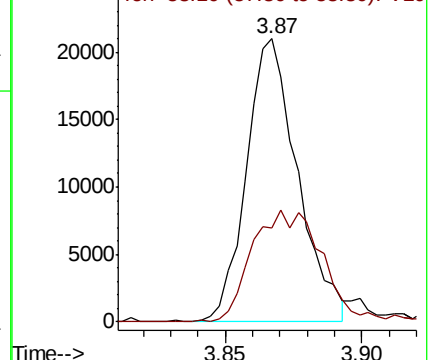
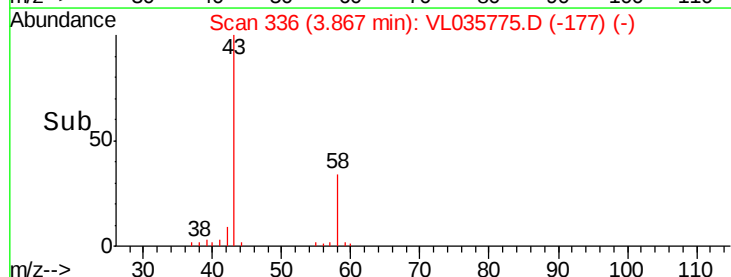
43 100

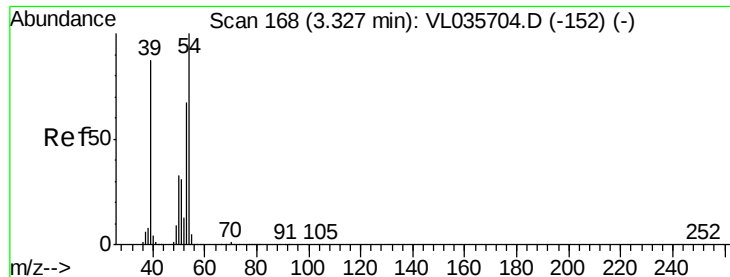
58 55.1 27.3 40.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.056 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

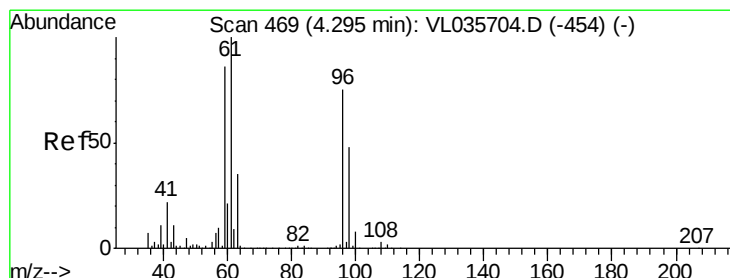
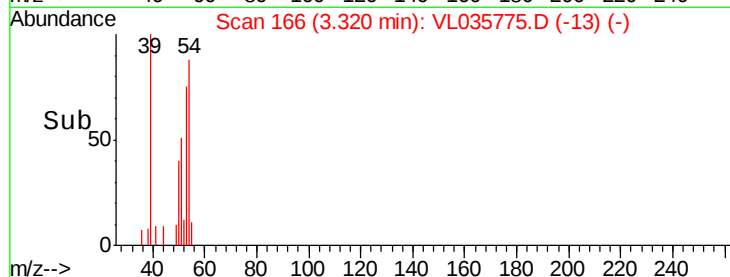
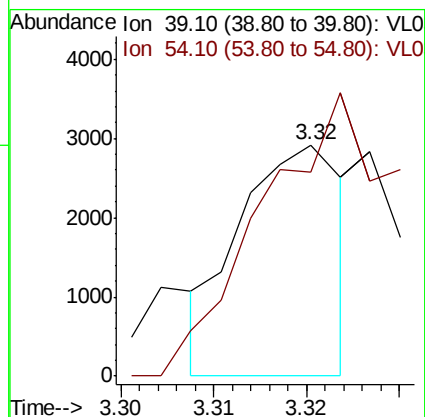
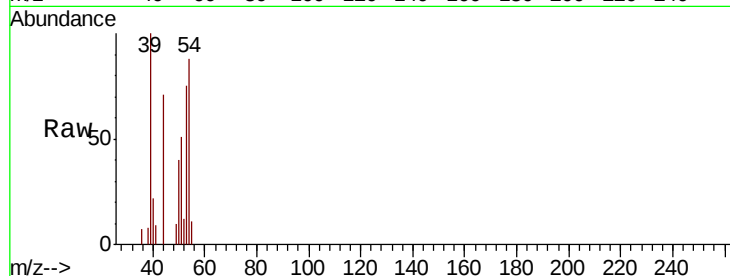
BFB

Tot Ion: 39 Resp: 2262

Ion Ratio Lower Upper

39 100

54 194.6 87.4 131.0#



#18

1,1-Dichloroethene

Concen: 0.121 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

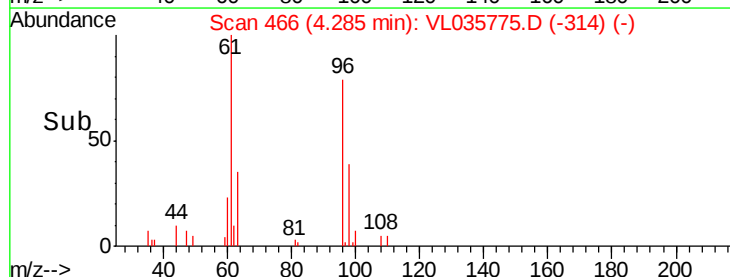
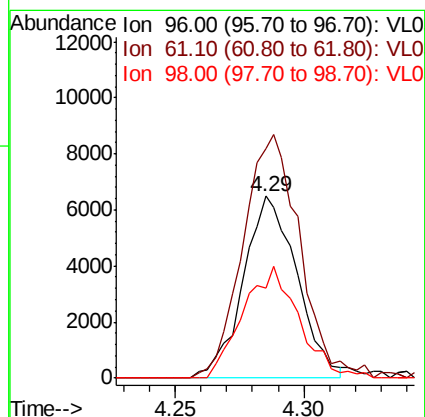
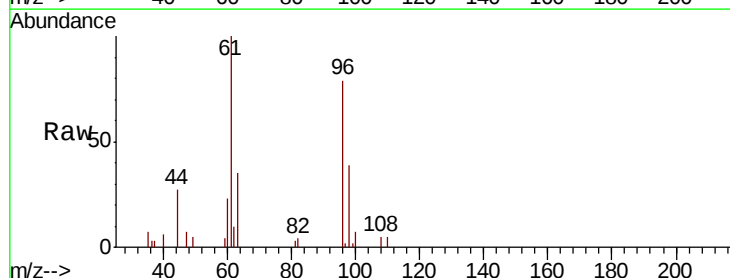
Tgt Ion: 96 Resp: 9432

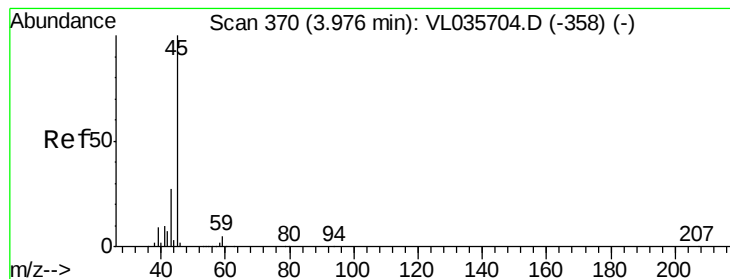
Ion Ratio Lower Upper

96 100

61 126.0 106.7 160.1

98 49.6 50.8 76.2#





#19

Isopropyl Alcohol

Concen: 0.066 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

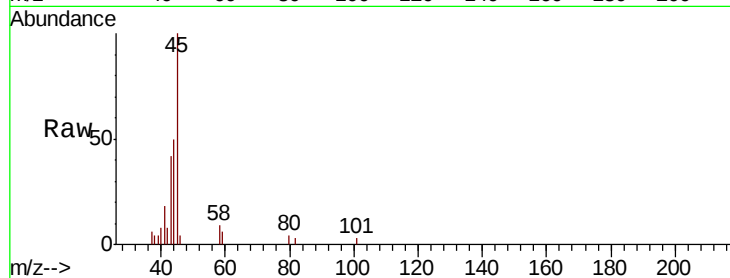
BFB

Tot Ion: 45 Resp: 3927

Ion Ratio Lower Upper

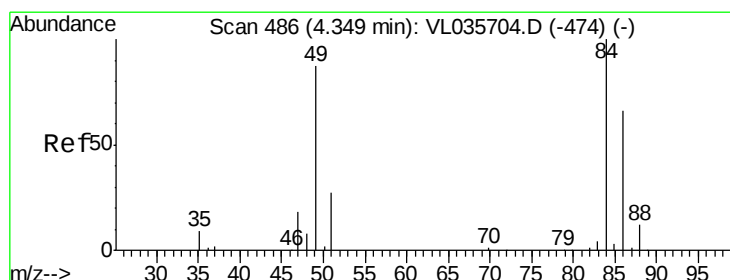
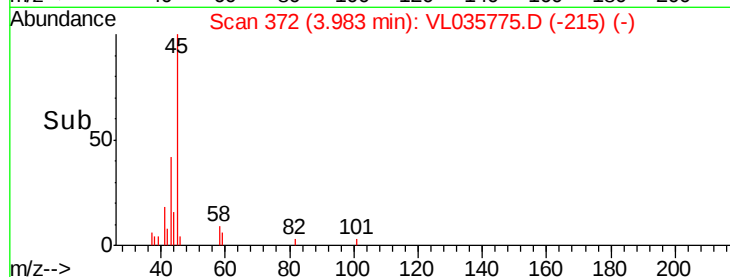
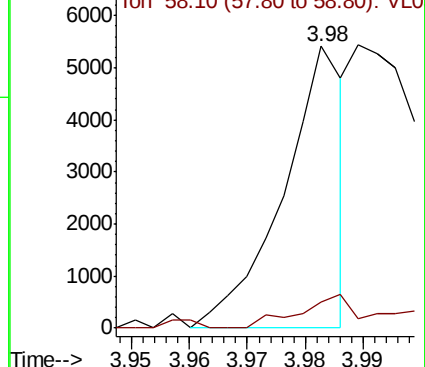
45 100

58 0.0 2.8 4.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.273 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Tgt Ion: 84 Resp: 21971

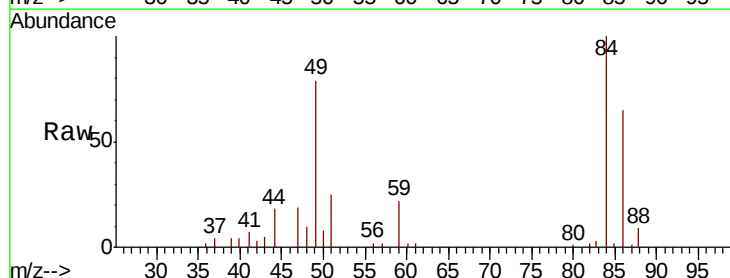
Ion Ratio Lower Upper

84 100

49 77.0 69.8 104.6

51 25.4 21.8 32.8

86 65.5 52.6 78.8

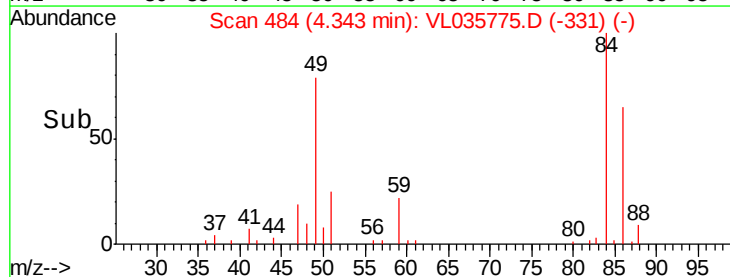
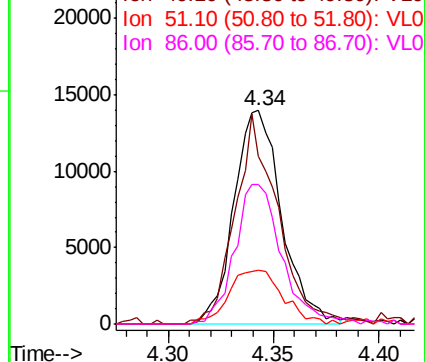


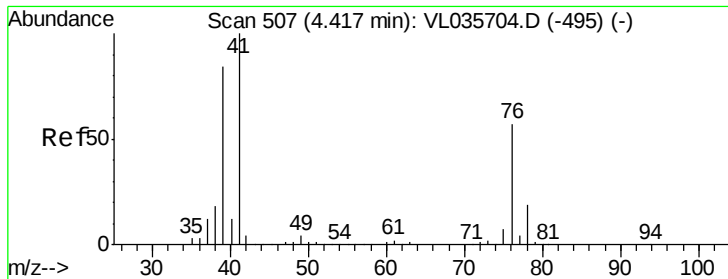
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

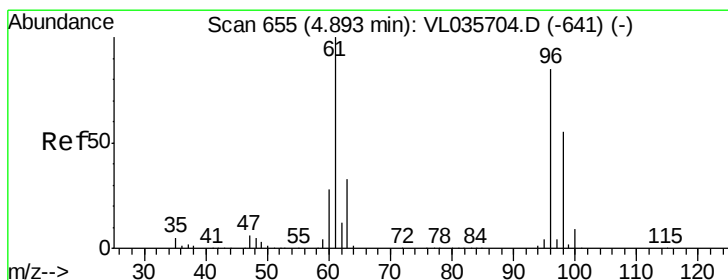
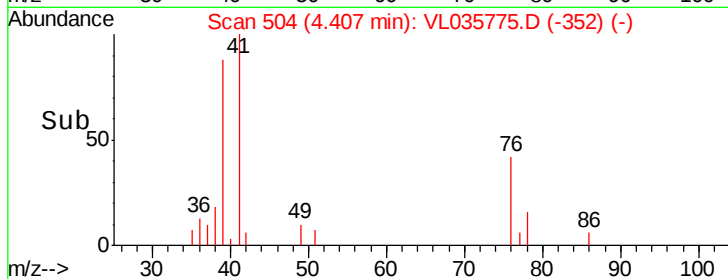
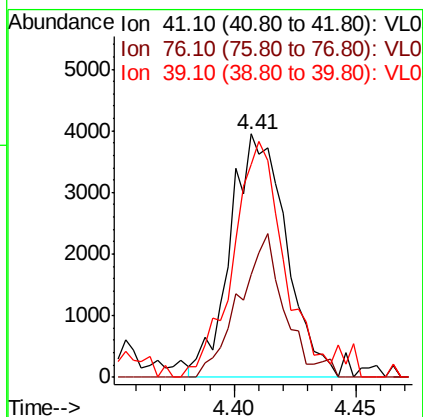
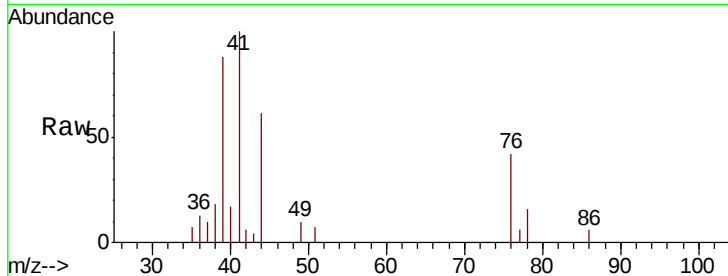




#21
Allvl Chloride
Concen: 0.118 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.01 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

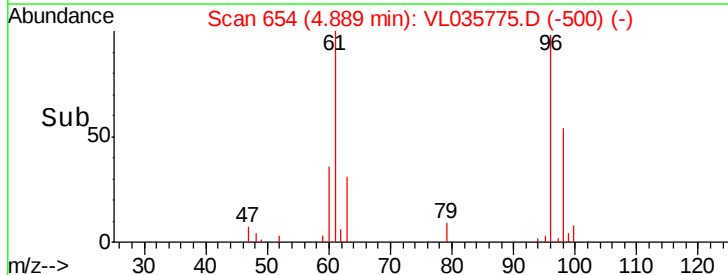
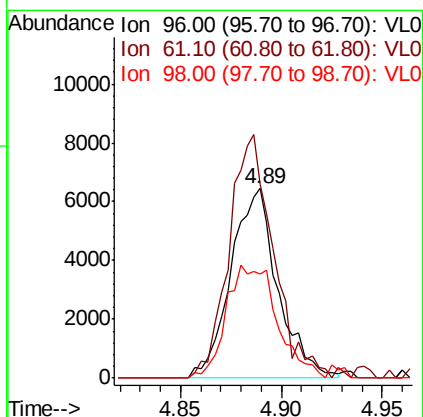
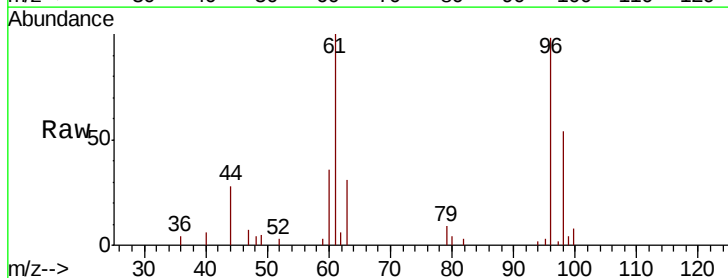
Instrument :
MSVOA_L
ClientSampleId :
BFB

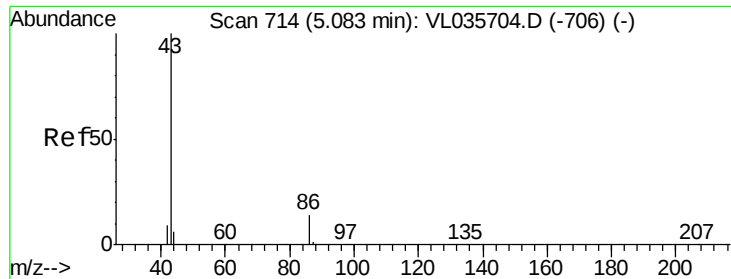
Tot Ion: 41 Resp: 6259
Ion Ratio Lower Upper
41 100
76 48.2 44.8 67.2
39 93.9 68.4 102.6



#22
trans-1,2-Dichloroethene
Concen: 0.128 ppbv
RT: 4.89 min Scan# 654
Delta R.T. -0.00 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Tgt Ion: 96 Resp: 10526
Ion Ratio Lower Upper
96 100
61 102.0 93.7 140.5
98 55.2 51.2 76.8





#23

Vinyl Acetate

Concen: 0.122 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampled :

BFB

Tot Ion: 43 Resp: 16359

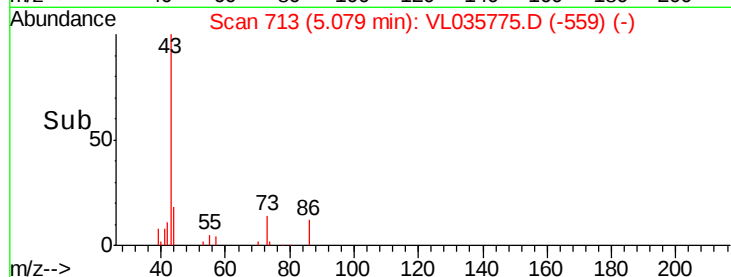
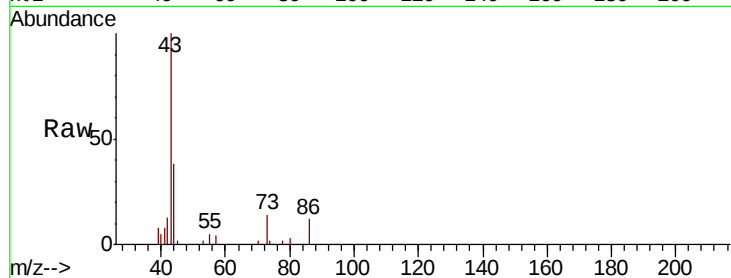
Ion Ratio Lower Upper

43 100

86 11.9 9.7 14.5

42 13.2 7.9 11.9#

44 15.1 4.8 7.2#

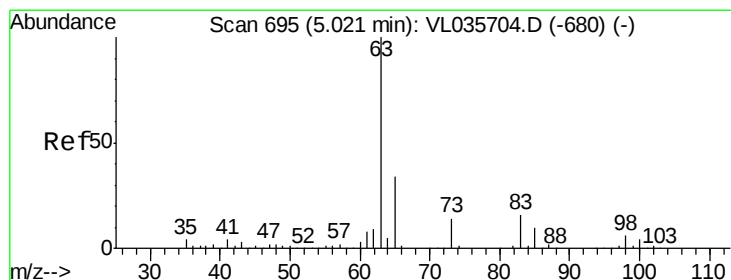
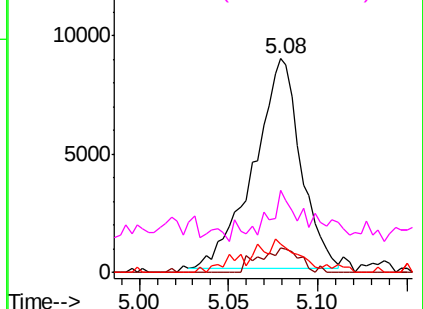


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.128 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

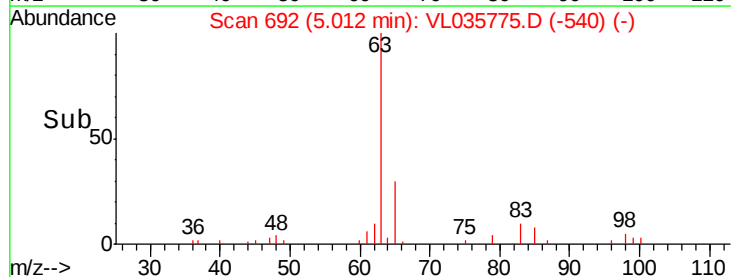
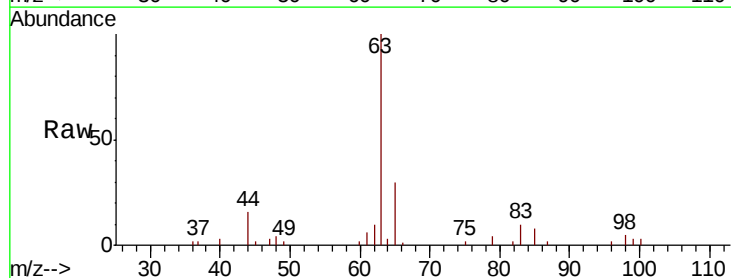
Tgt Ion: 63 Resp: 18655

Ion Ratio Lower Upper

63 100

98 4.9 3.3 9.8

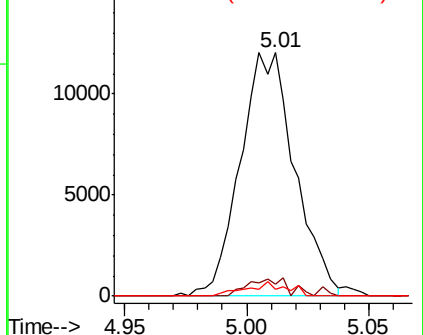
100 2.9 2.0 5.8

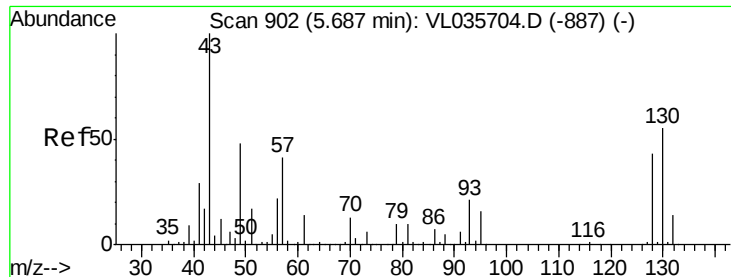


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

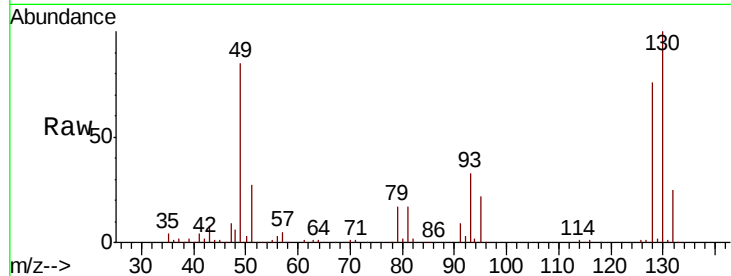




#25
Ethyl Acetate
Concen: 0.115 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Instrument :
MSVOA_L
ClientSampleId :
BFB

Tot Ion:	43	Resp:	22734
Ion	Ratio	Lower	Upper
43	100		
45	11.1	8.6	12.8
61	11.9	10.4	15.6
70	11.0	8.9	13.3



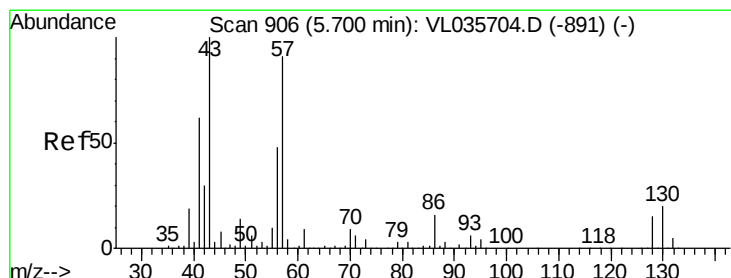
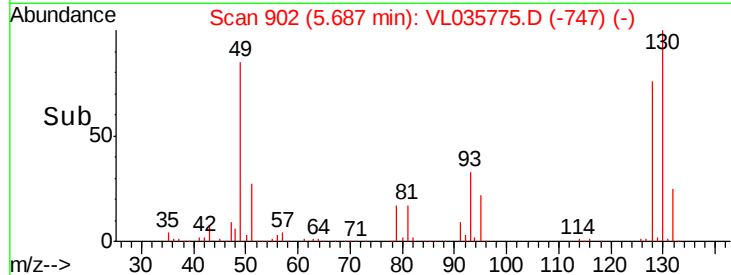
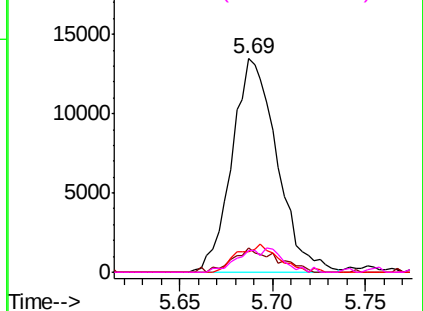
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

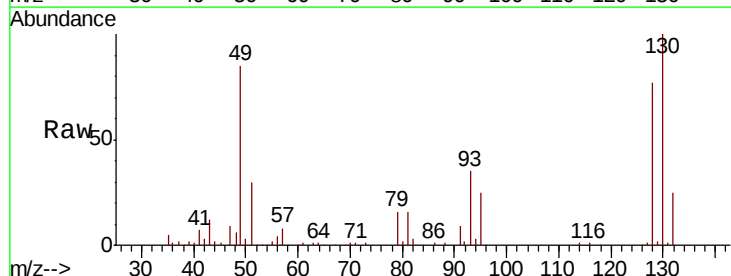
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.114 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Tgt Ion:	57	Resp:	12282
Ion	Ratio	Lower	Upper
57	100		
41	86.3	57.9	86.9
43	186.2	143.8	215.6
56	63.7	43.0	64.6



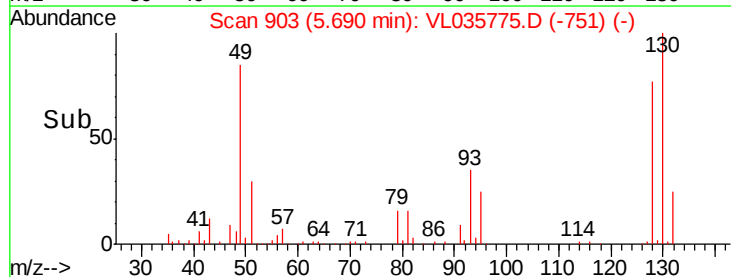
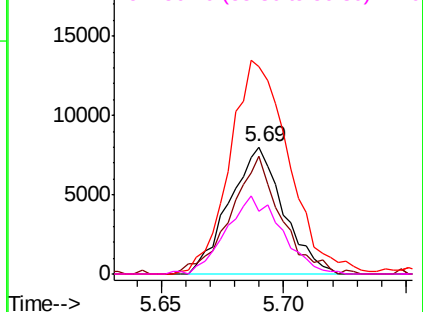
Abundance

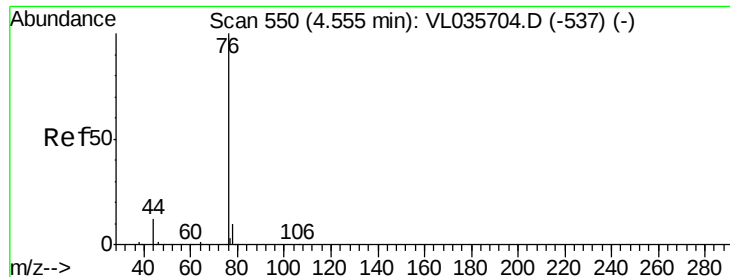
Ion 57.10 (56.80 to 57.80): VL0

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: 0.107 ppbv

RT: 4.55 min Scan# 548

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

BFB

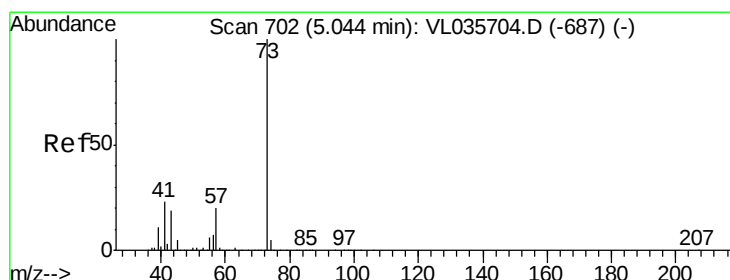
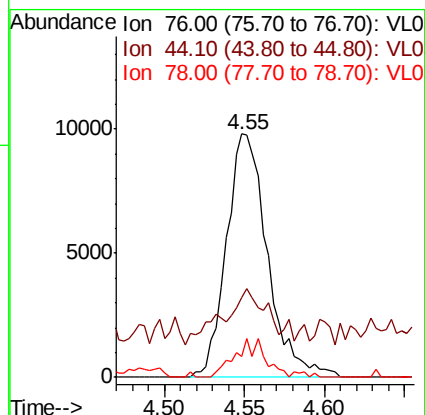
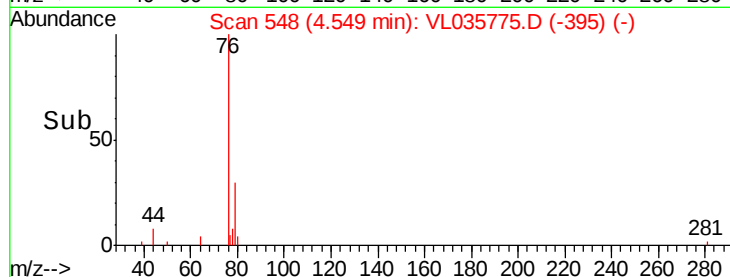
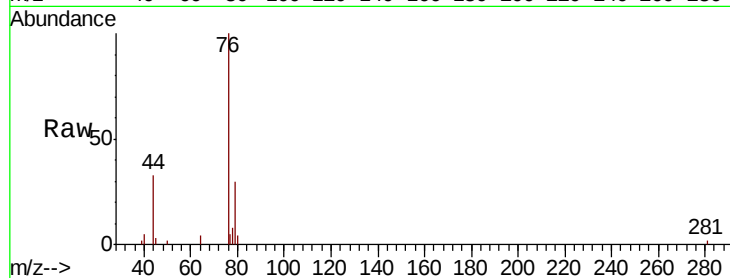
Tot Ion: 76 Resp: 17170

Ion Ratio Lower Upper

76 100

44 24.5 9.7 14.5#

78 12.5 7.8 11.8#



#28

Methyl tert-Butyl Ether

Concen: 0.101 ppbv

RT: 5.05 min Scan# 705

Delta R.T. 0.01 min

Lab File: VL035775.D

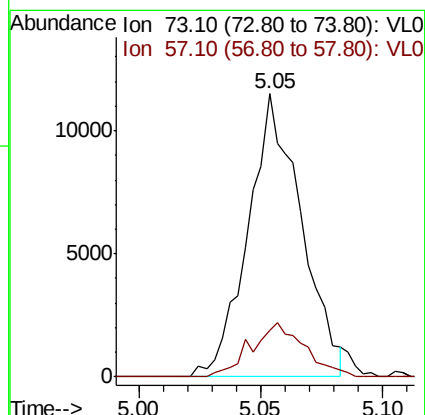
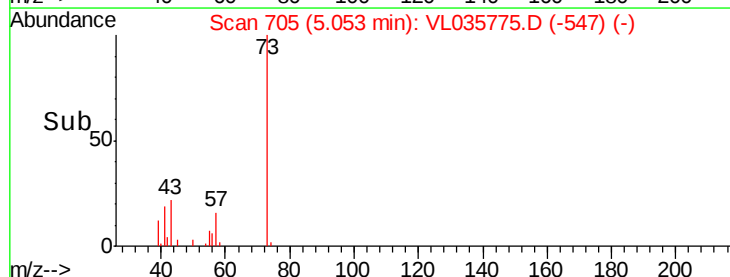
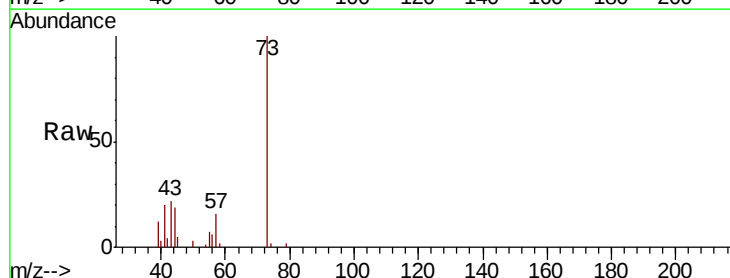
Acq: 12 Oct 2020 23:37

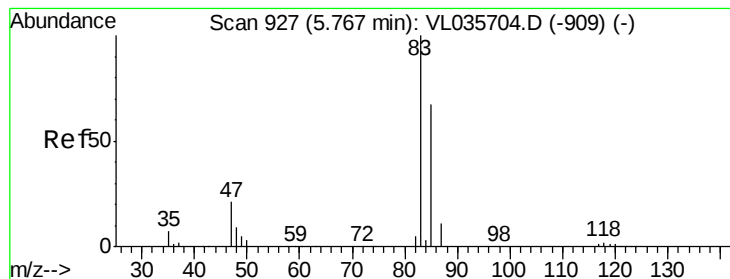
Tgt Ion: 73 Resp: 17330

Ion Ratio Lower Upper

73 100

57 19.5 15.6 23.4





#29

Chloroform

Concen: 0.133 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

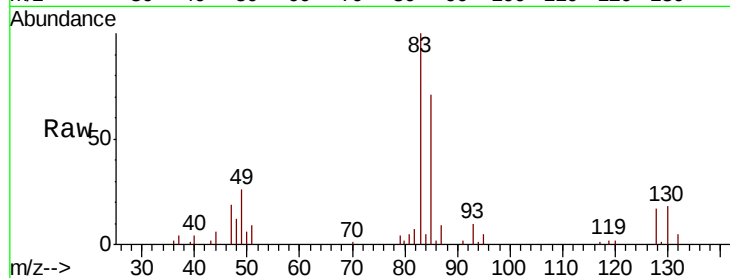
BFB

Tot Ion: 83 Resp: 29311

Ion Ratio Lower Upper

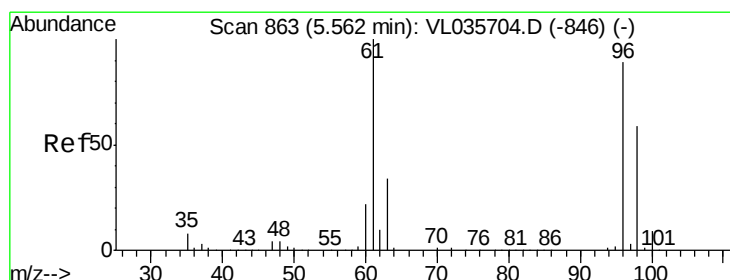
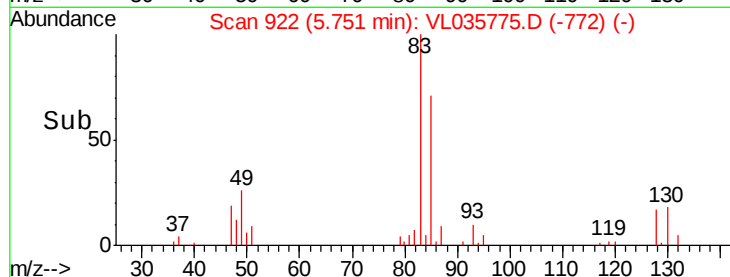
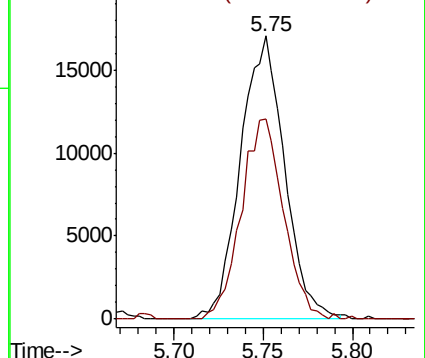
83 100

85 70.9 54.0 81.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#31

cis-1,2-Dichloroethene

Concen: 0.111 ppbv

RT: 5.55 min Scan# 859

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

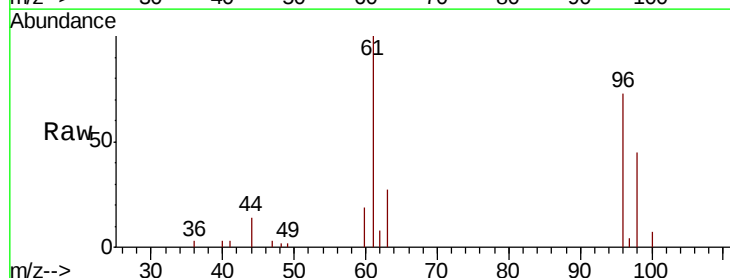
Tgt Ion: 61 Resp: 11539

Ion Ratio Lower Upper

61 100

96 73.4 71.4 107.2

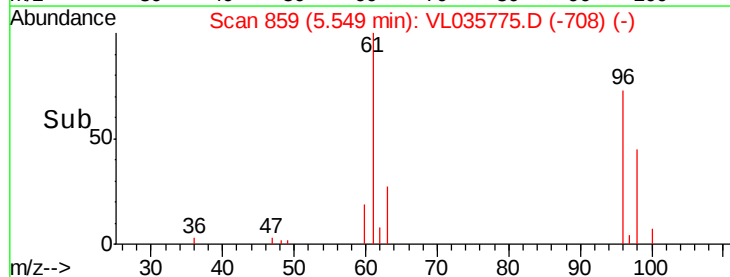
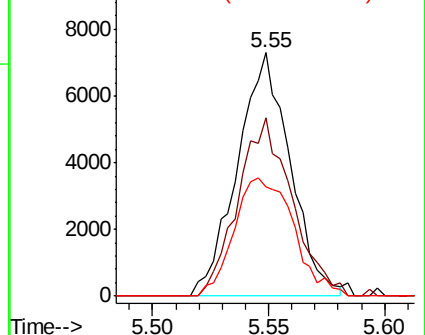
98 44.8 47.4 71.2#

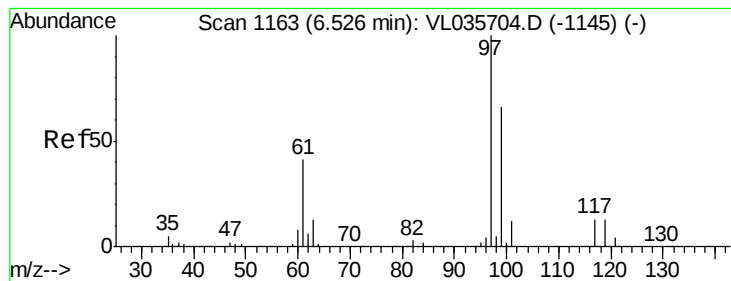


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.119 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

BFB

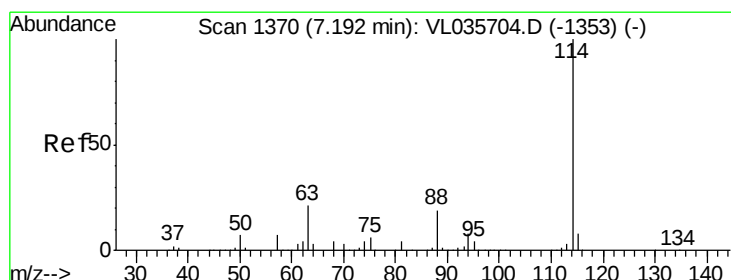
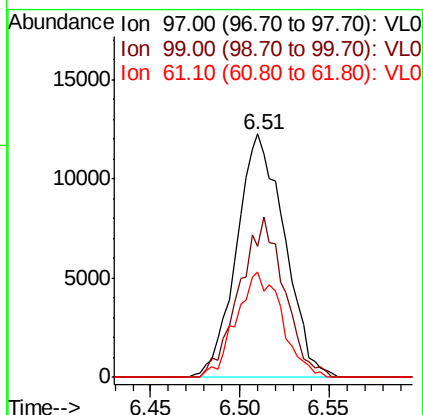
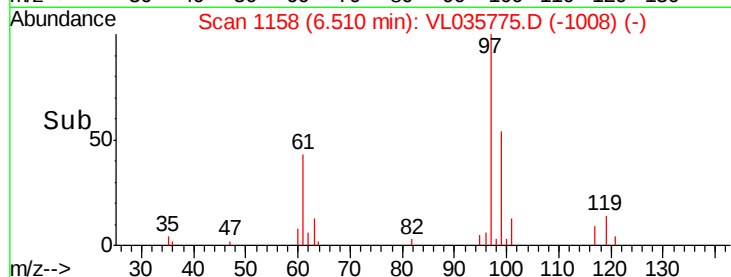
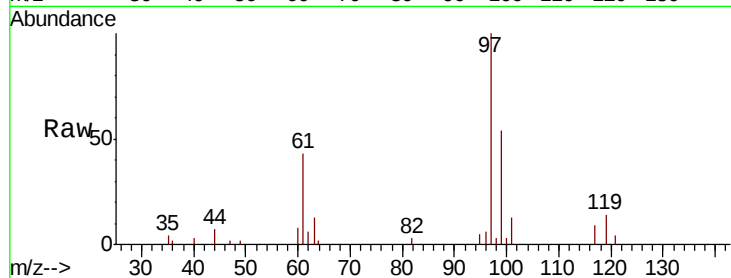
Tot Ion: 97 Resp: 22956

Ion Ratio Lower Upper

97 100

99 61.6 52.7 79.1

61 41.1 32.7 49.1



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

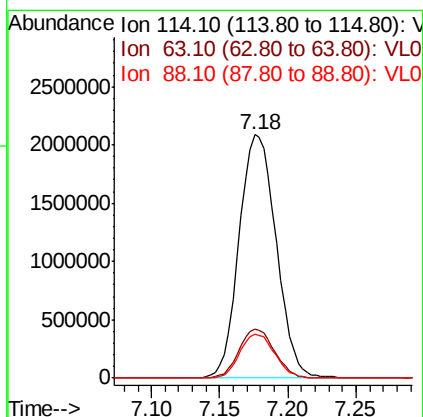
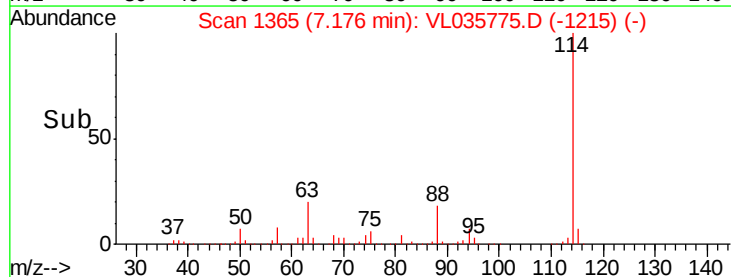
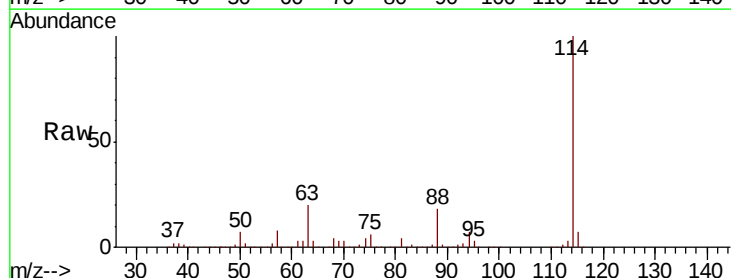
Tgt Ion: 114 Resp: 3939058

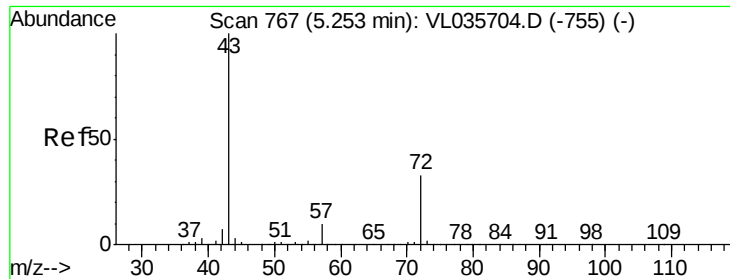
Ion Ratio Lower Upper

114 100

63 19.5 16.1 24.1

88 17.2 14.1 21.1





#34

2-Butanone

Concen: 0.113 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

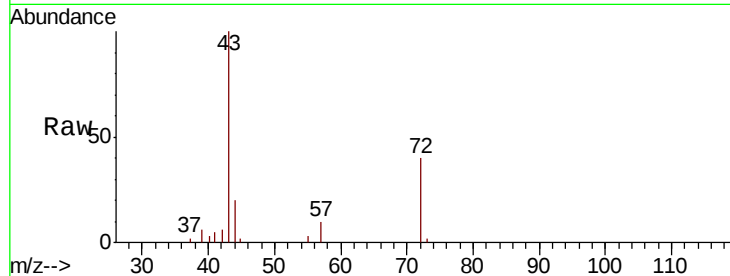
BFB

Tot Ion: 43 Resp: 14737

Ion Ratio Lower Upper

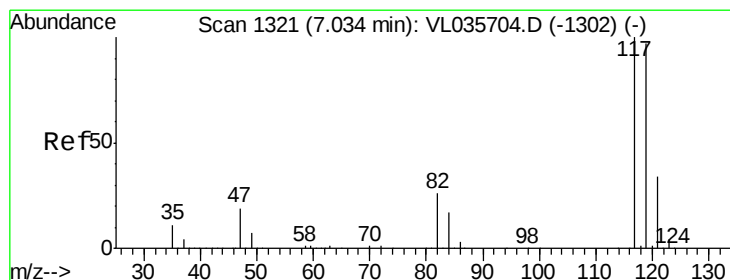
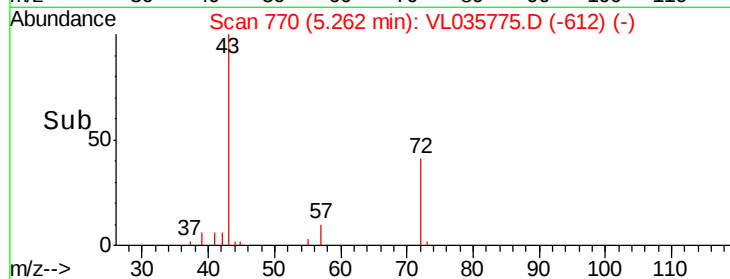
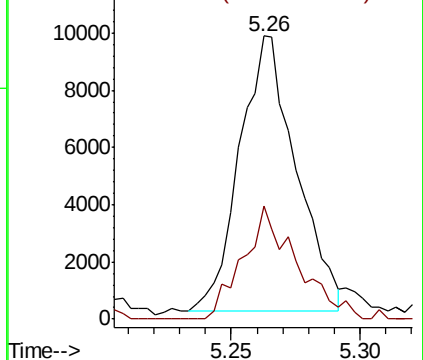
43 100

72 39.4 26.1 39.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.108 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

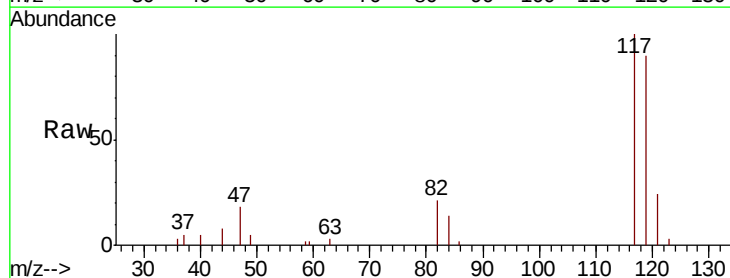
Tgt Ion: 117 Resp: 22275

Ion Ratio Lower Upper

117 100

119 89.7 77.7 116.5

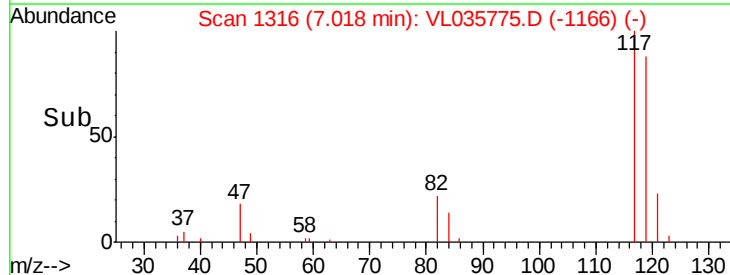
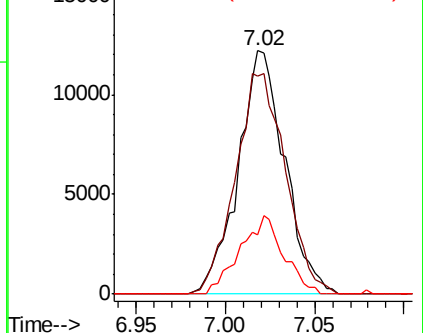
121 24.3 26.9 40.3#

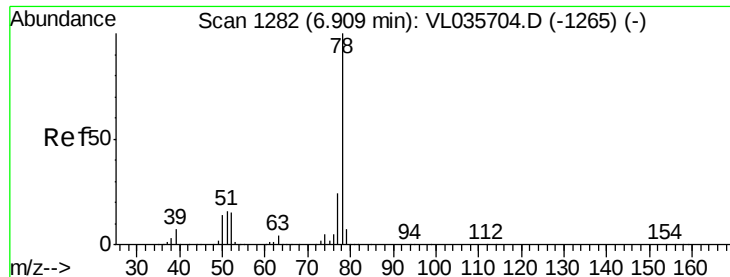


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.096 ppbv

RT: 6.89 min Scan# 1277

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

BFB

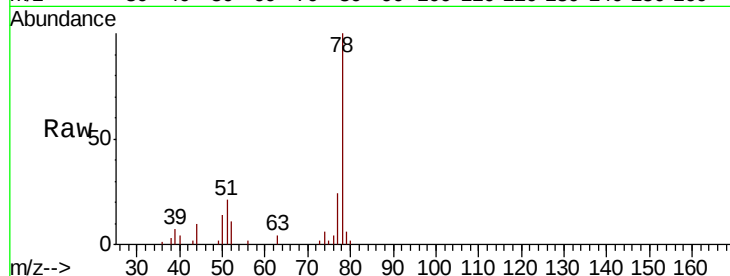
Tot Ion: 78 Resp: 24632

Ion Ratio Lower Upper

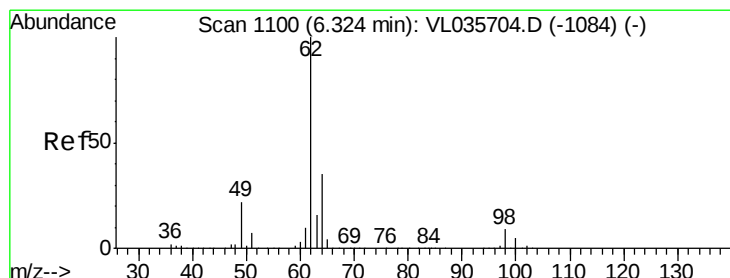
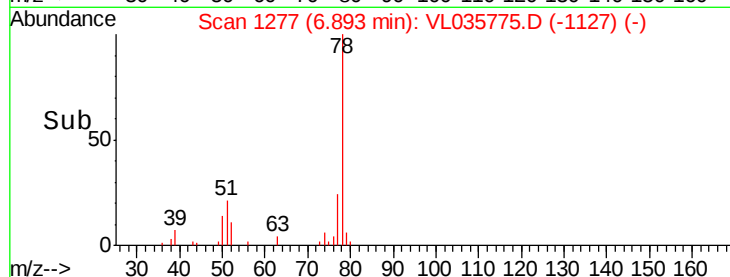
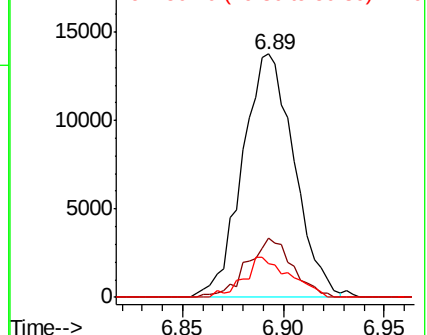
78 100

77 24.3 19.3 28.9

50 13.7 11.6 17.4



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: 0.065 ppbv

RT: 6.31 min Scan# 1096

Delta R.T. -0.01 min

Lab File: VL035775.D

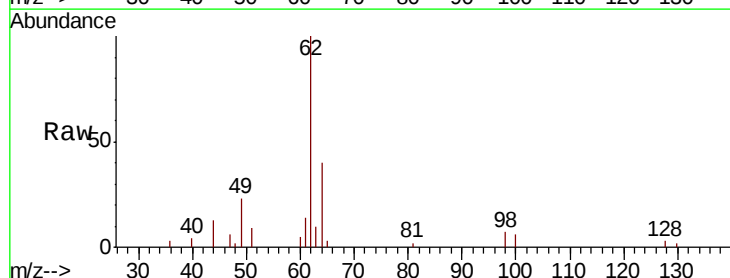
Acq: 12 Oct 2020 23:37

Tgt Ion: 62 Resp: 8718

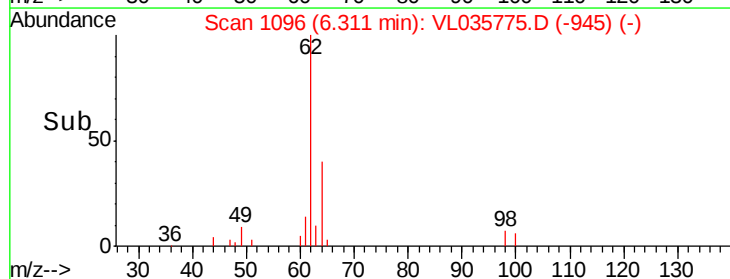
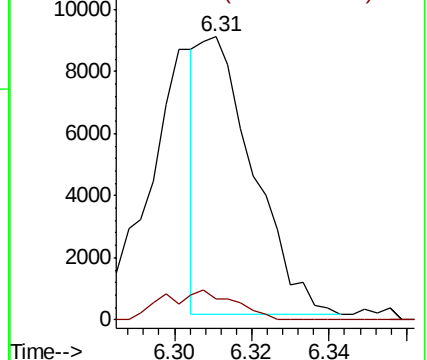
Ion Ratio Lower Upper

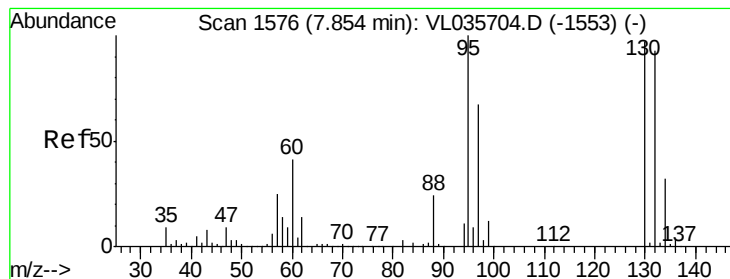
62 100

98 13.9 6.9 10.3#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.109 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

BFB

Tot Ion:130 Resp: 14020

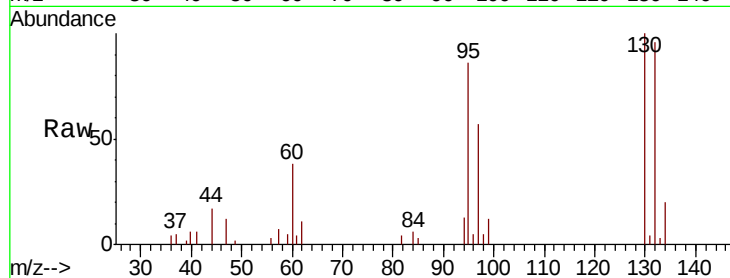
Ion Ratio Lower Upper

130 100

95 84.3 82.4 123.6

132 96.4 76.8 115.2

97 56.5 55.4 83.2

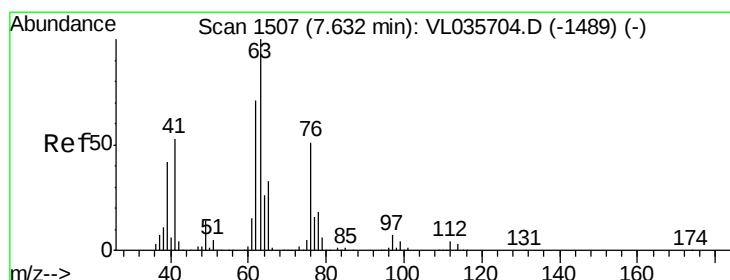
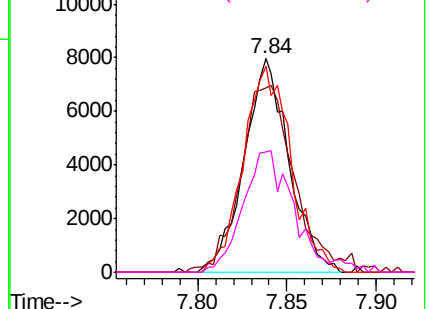
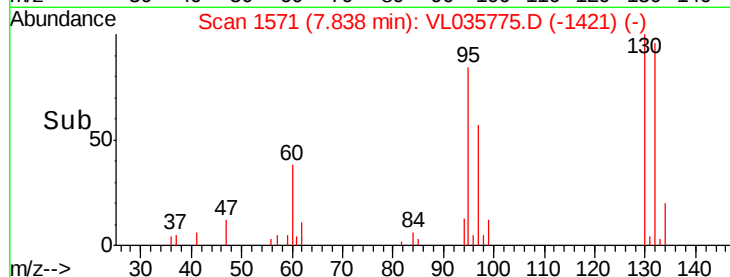


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.107 ppbv

RT: 7.62 min Scan# 1502

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

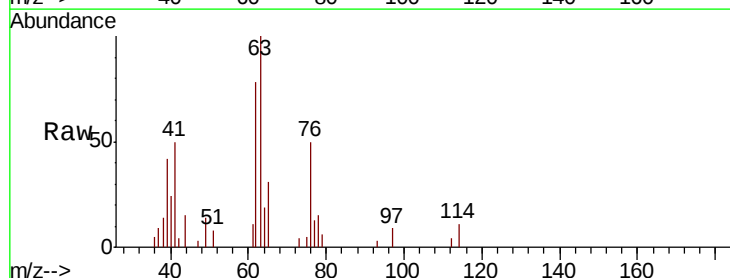
Tgt Ion: 63 Resp: 9936

Ion Ratio Lower Upper

63 100

41 49.4 42.6 63.8

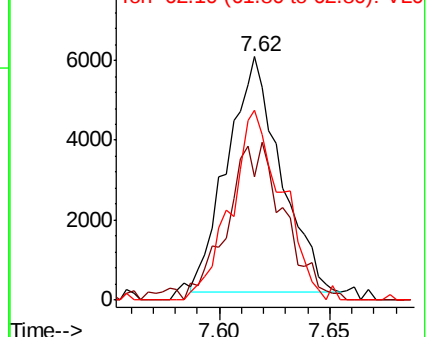
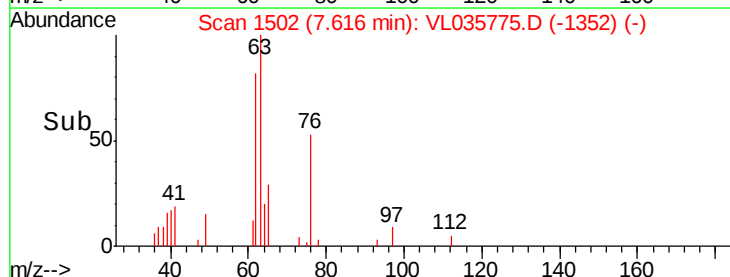
62 80.6 56.5 84.7

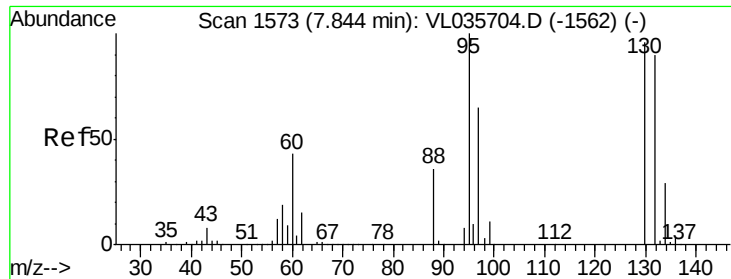


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

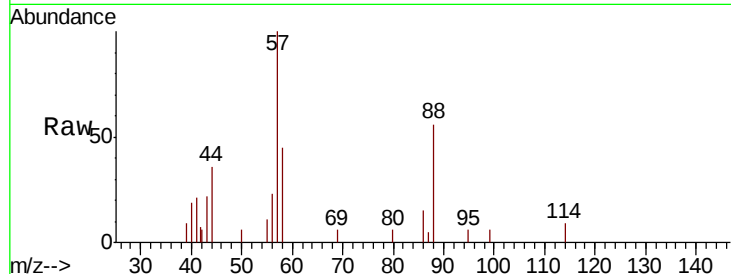




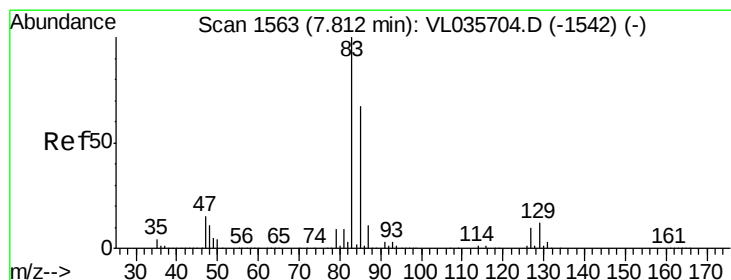
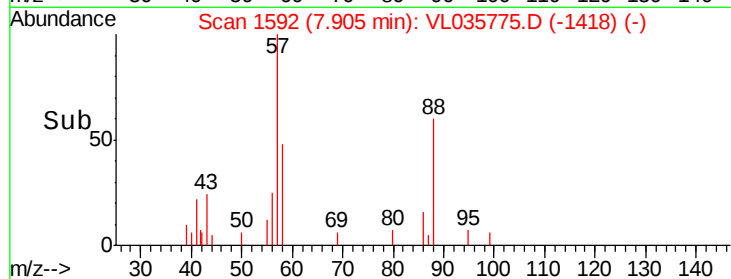
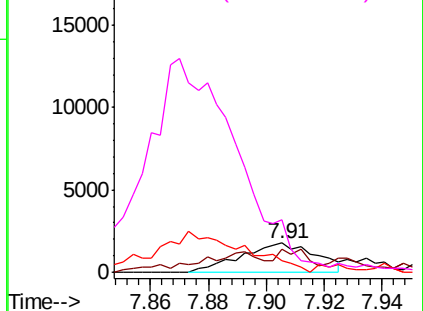
#40
 1,4-Dioxane
 Concen: 0.073 ppbv
 RT: 7.91 min Scan# 1592
 Delta R.T. 0.06 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

Tot Ion: 88 Resp: 3122
 Ion Ratio Lower Upper
 88 100
 58 134.0 76.2 114.4#
 43 185.0 123.4 185.2
 57 935.5 652.5 978.7

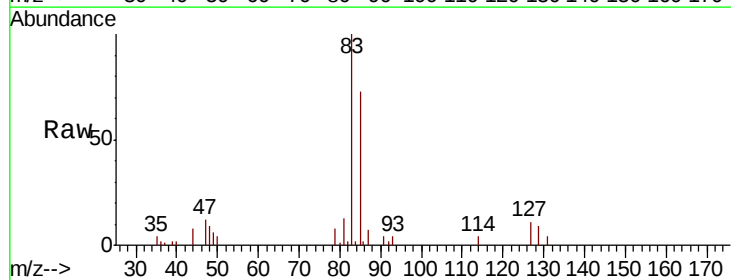


Abundance Ion 88.10 (87.80 to 88.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0

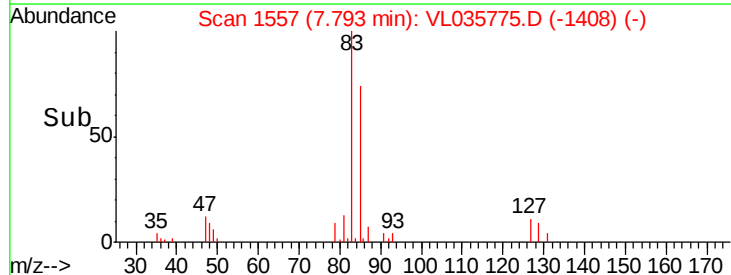
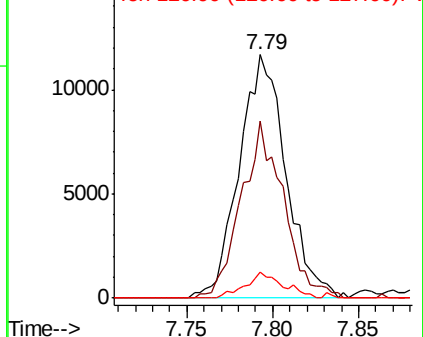


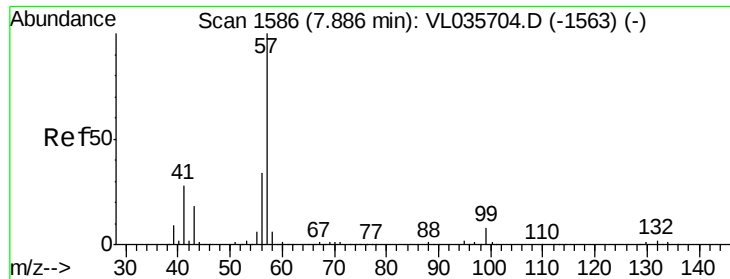
#42
 Bromodichloromethane
 Concen: 0.102 ppbv
 RT: 7.79 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

Tgt Ion: 83 Resp: 21912
 Ion Ratio Lower Upper
 83 100
 85 72.7 53.4 80.0
 127 10.6 7.8 11.6



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

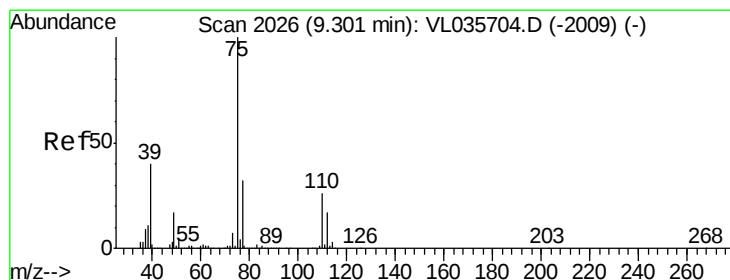
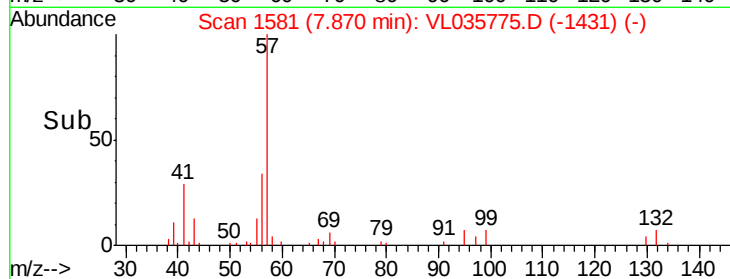
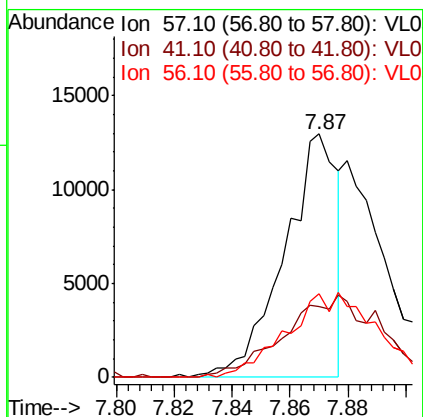
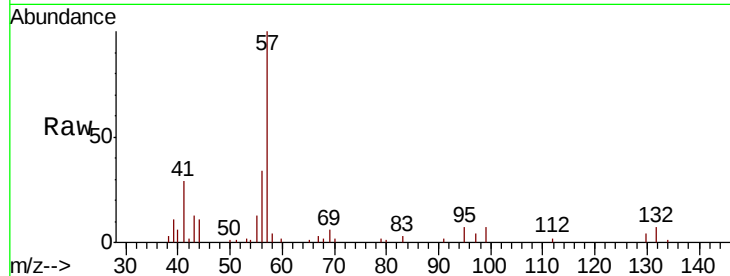




#44
 2,2,4-Trimethylpentane
 Concen: 0.045 ppbv
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

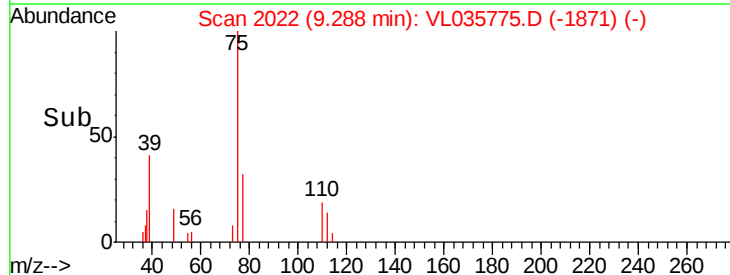
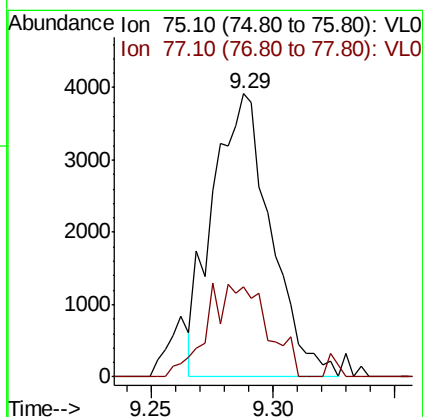
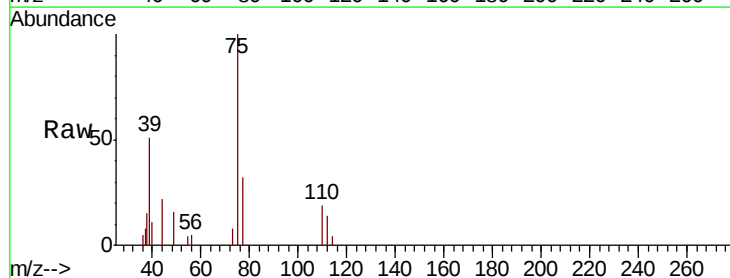
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

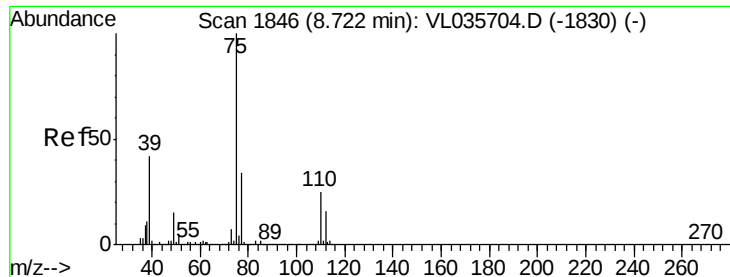
Tot Ion	57	Resp	16437
Ion Ratio	100	Lower	Upper
41	0.0	21.2	31.8#
56	0.0	25.8	38.8#



#45
 t-1,3-Dichloropropene
 Concen: 0.063 ppbv
 RT: 9.29 min Scan# 2022
 Delta R.T. -0.01 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

Tgt Ion	75	Resp	6516
Ion Ratio	100	Lower	Upper
77	31.7	25.9	38.9

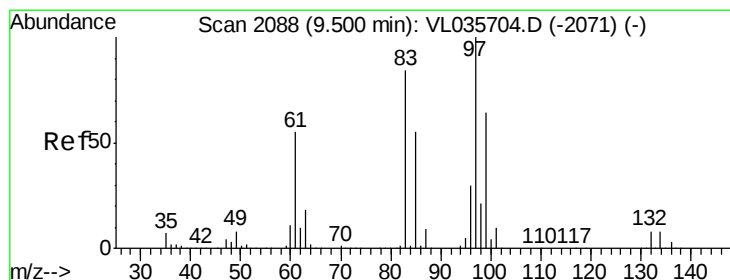
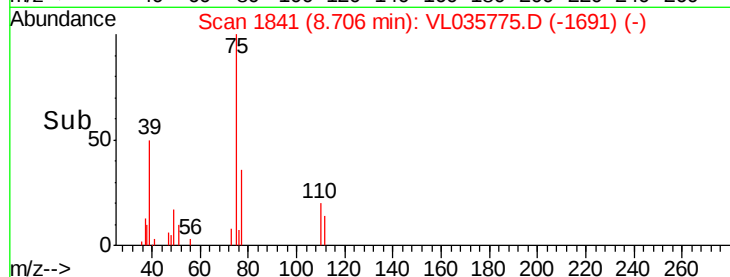
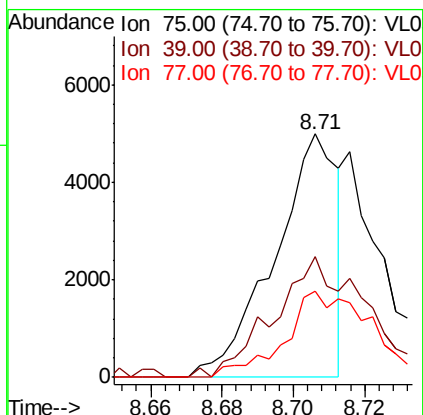
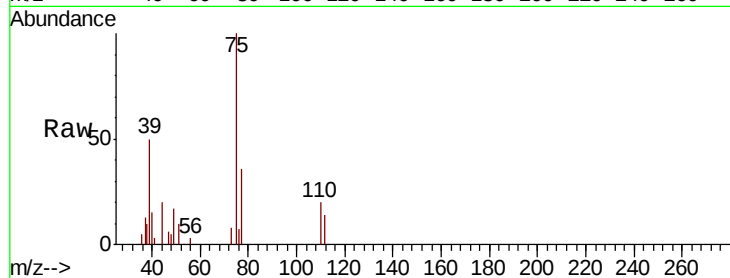




#46
 cis-1,3-Dichloropropene
 Concen: 0.048 ppbv
 RT: 8.71 min Scan# 1841
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

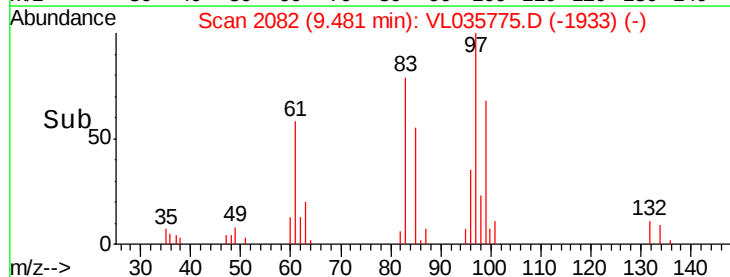
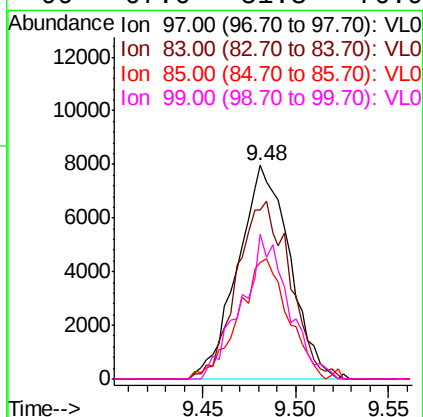
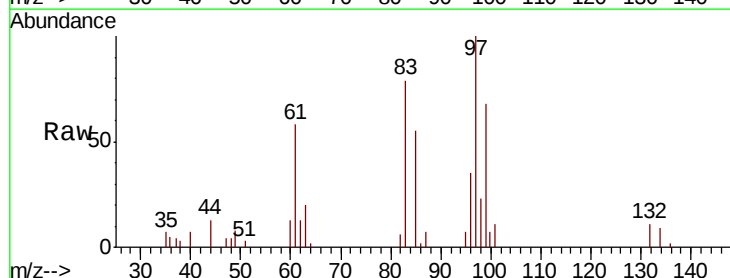
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

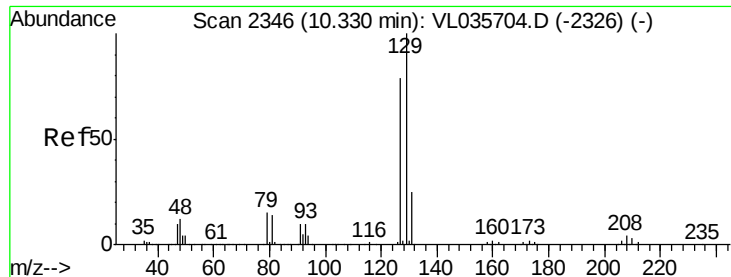
Tot Ion:	75	Resp:	6090
Ion	Ratio	Lower	Upper
75	100		
39	49.5	33.9	50.9
77	35.6	27.4	41.0



#47
 1,1,2-Trichloroethane
 Concen: 0.116 ppbv
 RT: 9.48 min Scan# 2082
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

Tgt Ion:	97	Resp:	15490
Ion	Ratio	Lower	Upper
97	100		
83	79.4	67.1	100.7
85	54.7	43.9	65.9
99	67.6	51.3	76.9

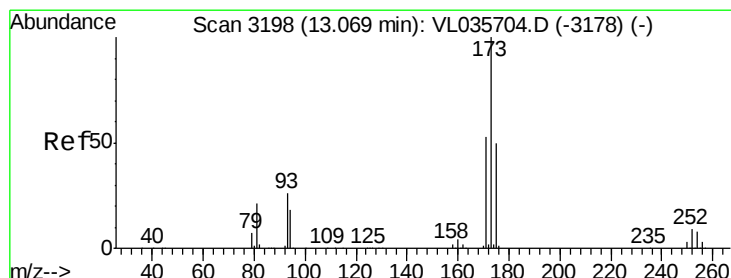
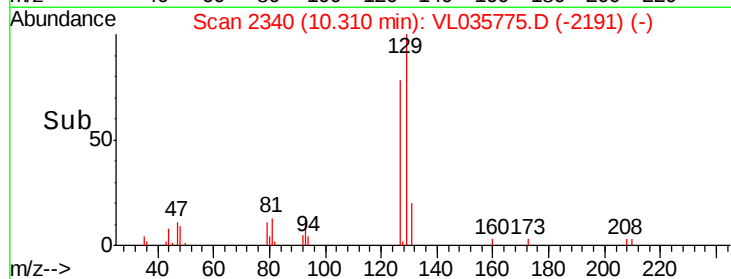
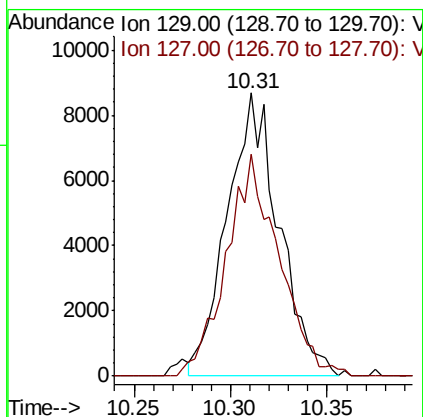
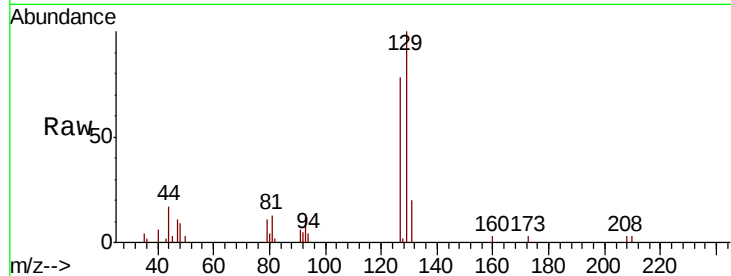




#48
 Dibromochloromethane
 Concen: 0.080 ppbv
 RT: 10.31 min Scan# 2340
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

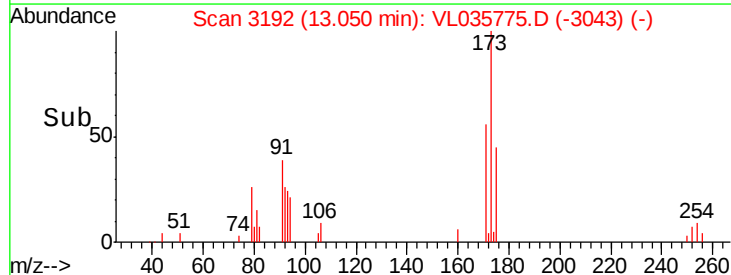
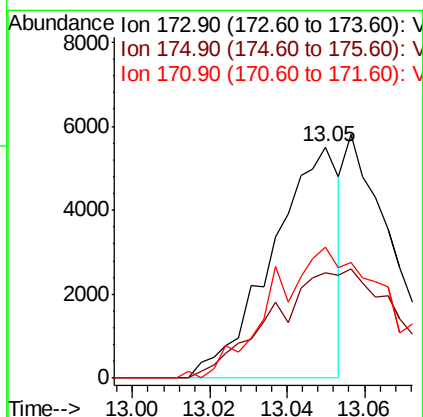
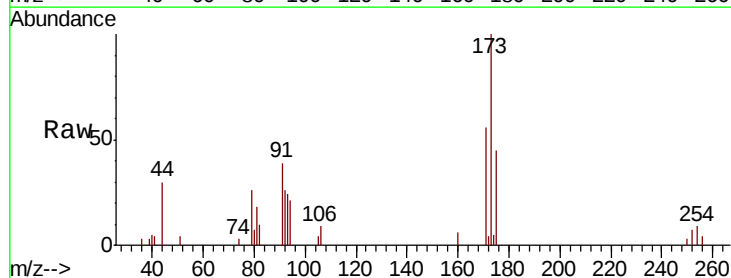
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

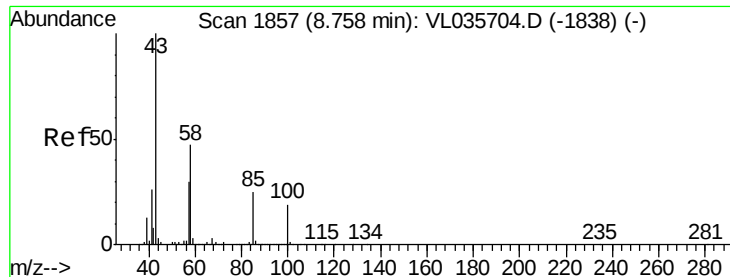
Tot Ion:129 Resp: 16162
 Ion Ratio Lower Upper
 129 100
 127 79.3 39.4 118.1



#49
 Bromoform
 Concen: 0.039 ppbv
 RT: 13.05 min Scan# 3192
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

Tgt Ion:173 Resp: 6630
 Ion Ratio Lower Upper
 173 100
 175 0.0 39.8 59.6#
 171 98.9 42.8 64.2#

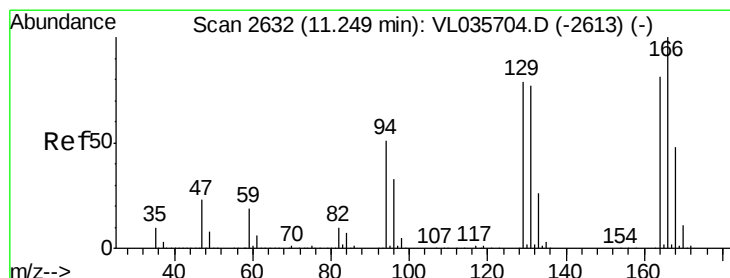
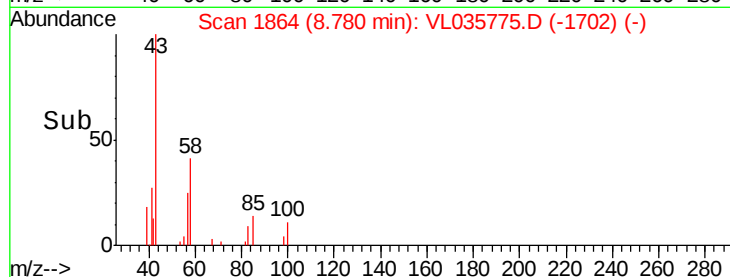
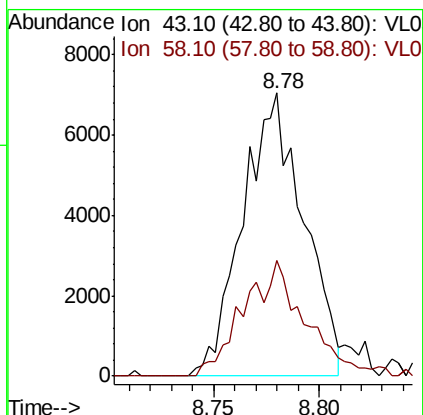
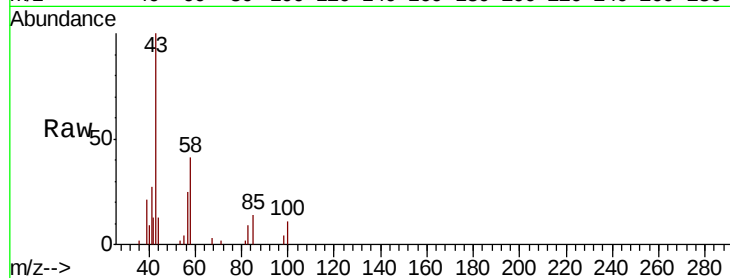




#50
4-Methyl-2-Pentanone
Concen: 0.075 ppbv
RT: 8.78 min Scan# 1864
Delta R.T. 0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

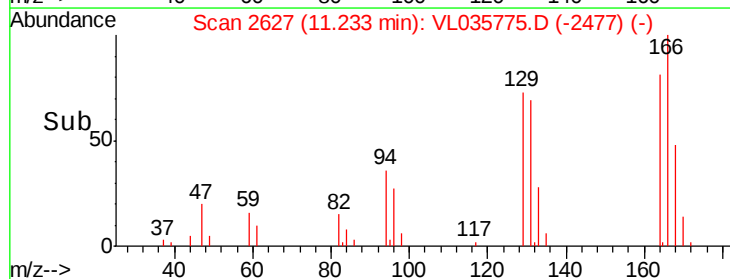
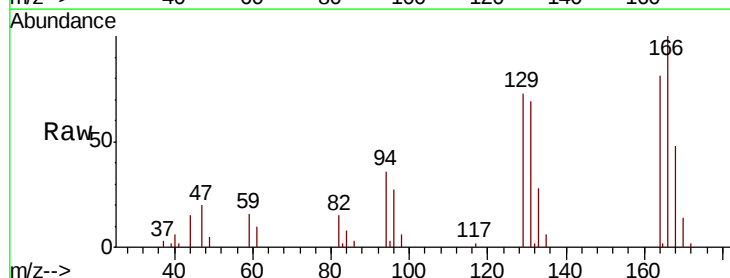
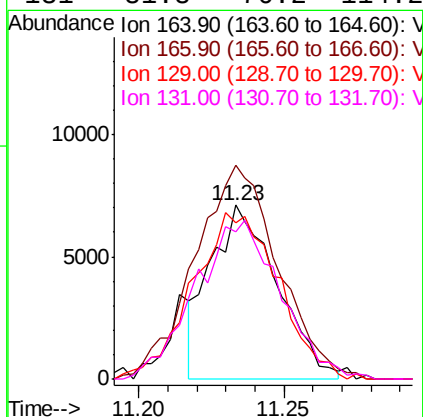
Instrument :
MSVOA_L
ClientSampled :
BFB

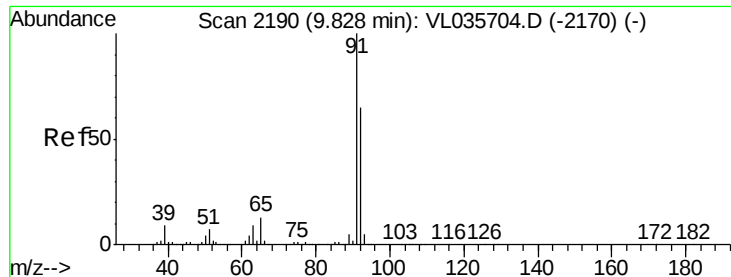
Tot Ion: 43 Resp: 14204
Ion Ratio Lower Upper
43 100
58 41.7 36.6 54.8



#52
Tetrachloroethene
Concen: 0.092 ppbv
RT: 11.23 min Scan# 2627
Delta R.T. -0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Tgt Ion: 164 Resp: 11354
Ion Ratio Lower Upper
164 100
166 122.3 98.7 148.1
129 91.0 78.4 117.6
131 81.8 76.2 114.2





#53

Toluene

Concen: 0.045 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampled :

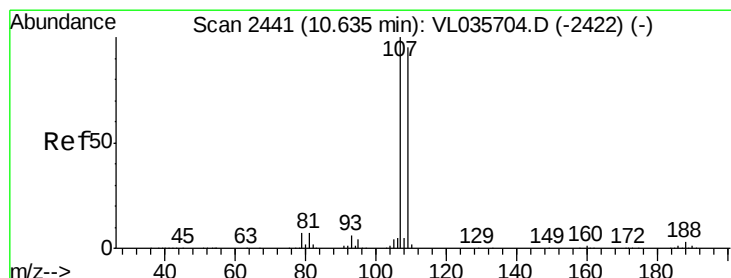
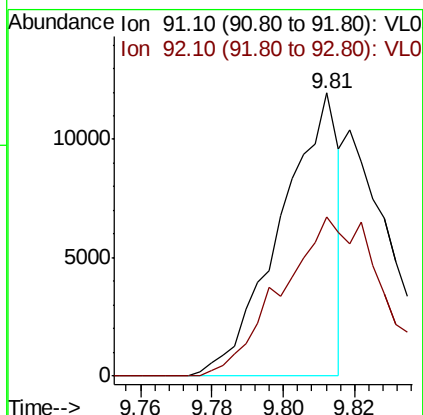
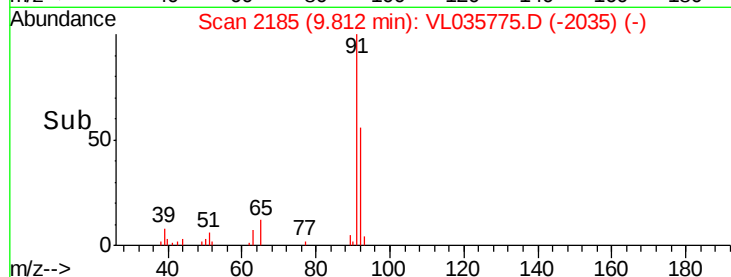
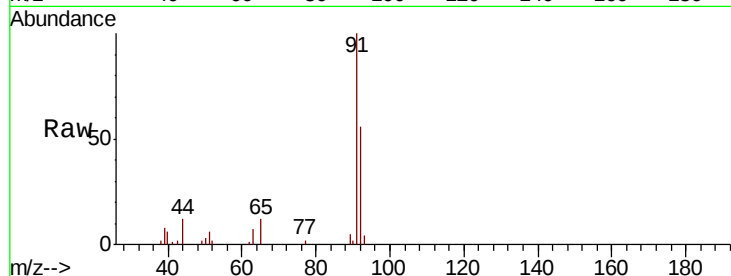
BFB

Tot Ion: 91 Resp: 13502

Ion Ratio Lower Upper

91 100

92 96.7 50.0 75.0#



#54

1,2-Dibromoethane

Concen: 0.065 ppbv

RT: 10.62 min Scan# 2435

Delta R.T. -0.02 min

Lab File: VL035775.D

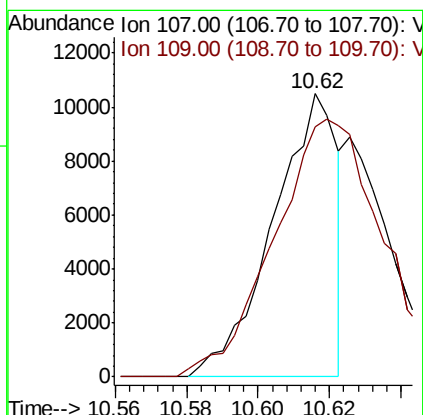
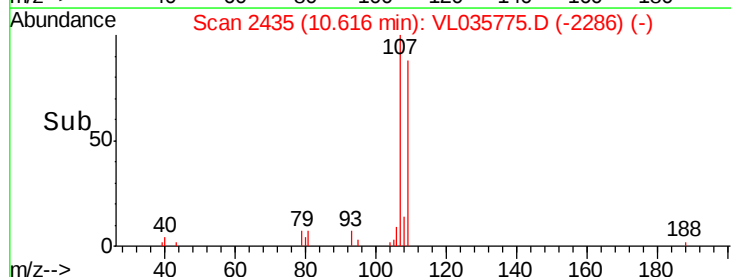
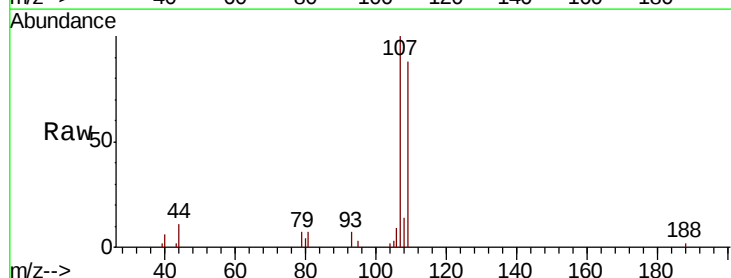
Acq: 12 Oct 2020 23:37

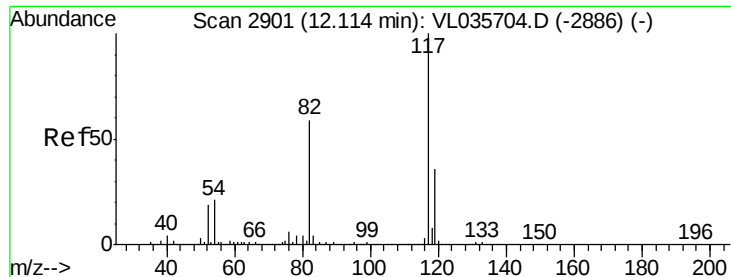
Tgt Ion: 107 Resp: 13030

Ion Ratio Lower Upper

107 100

109 85.6 76.0 114.0

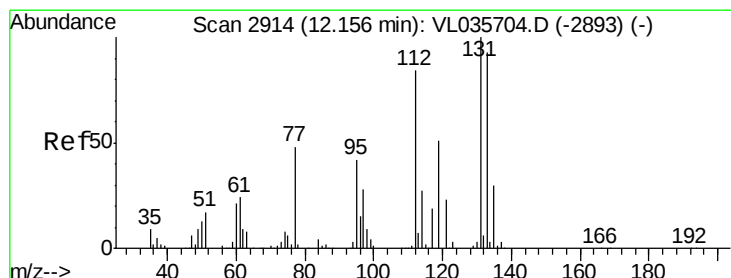
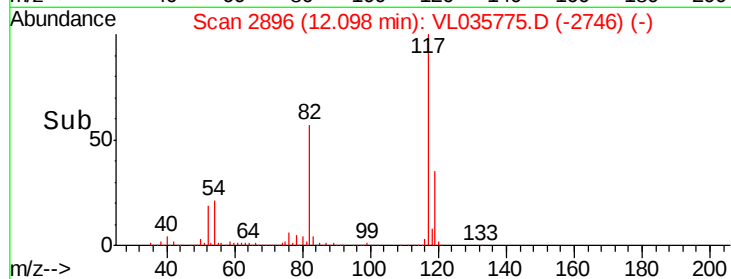
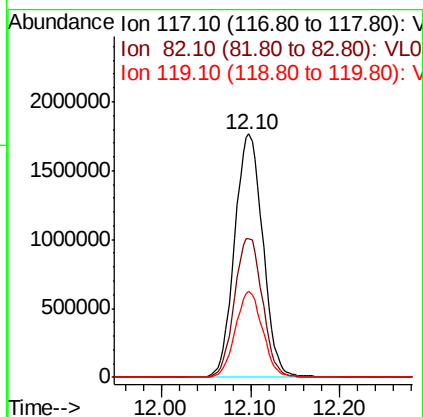
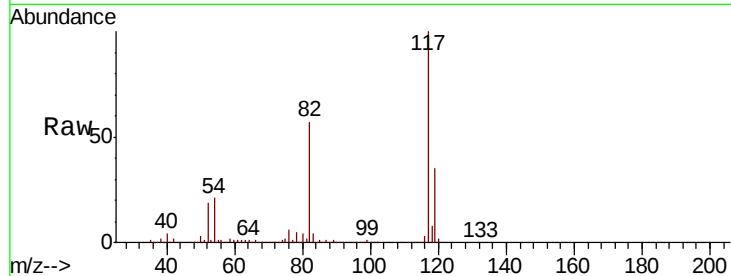




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

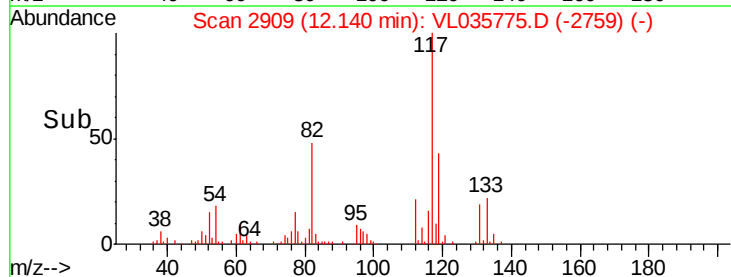
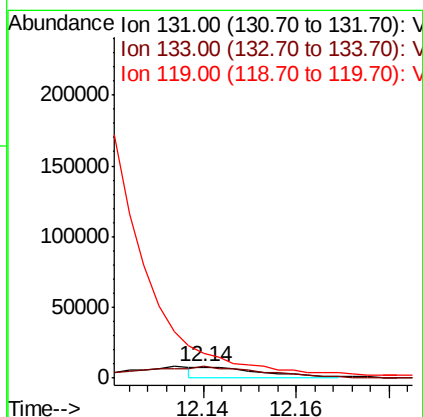
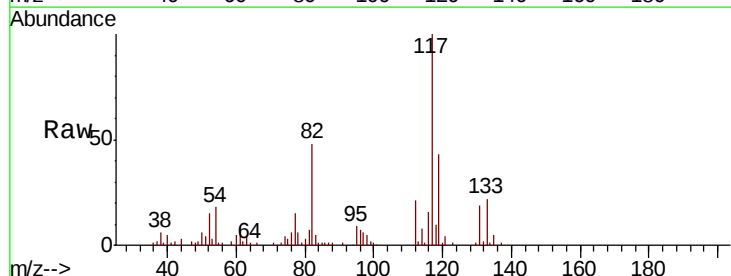
Instrument :
MSVOA_L
ClientSampled :
BFB

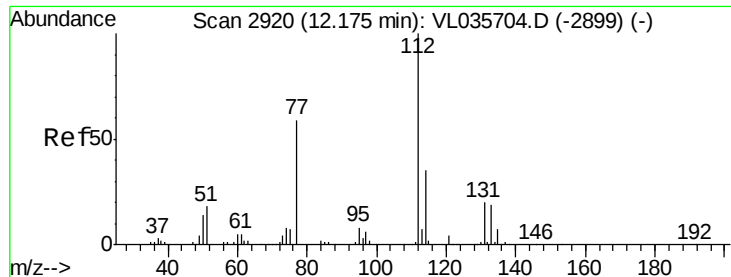
Tot Ion:117 Resp: 3876919
Ion Ratio Lower Upper
117 100
82 57.1 46.1 69.1
119 34.3 28.0 42.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.049 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Tgt Ion:131 Resp: 7999
Ion Ratio Lower Upper
131 100
133 211.3 76.2 114.4#
119 0.0 52.4 78.6#

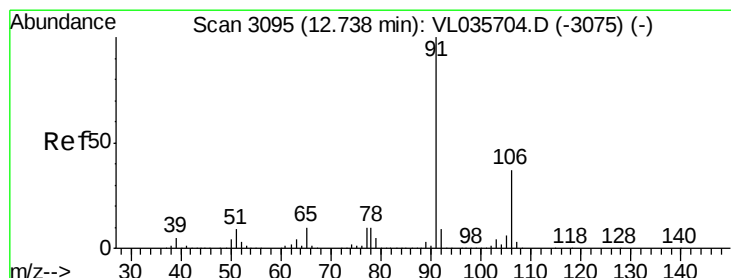
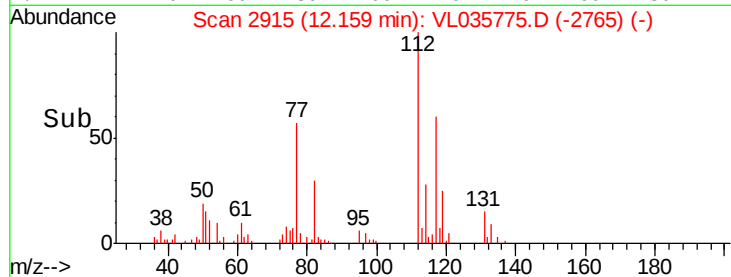
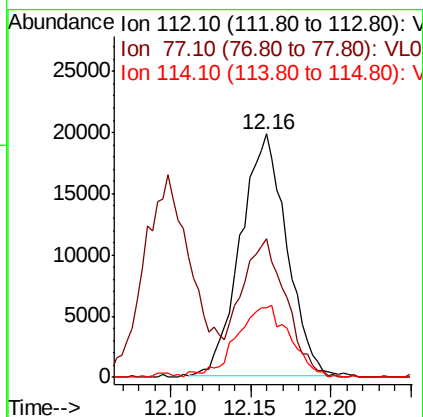
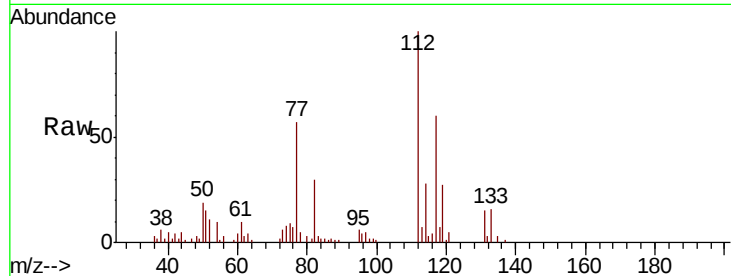




#57
Chlorobenzene
Concen: 0.132 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. -0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

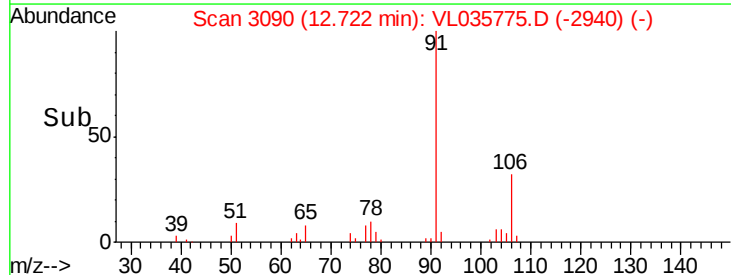
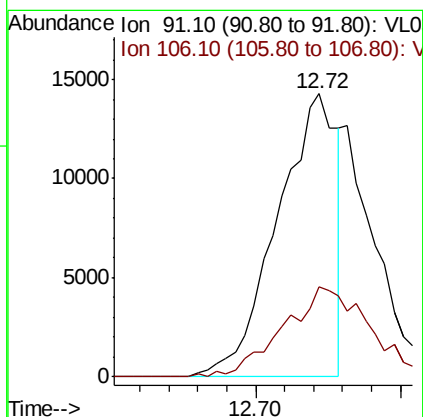
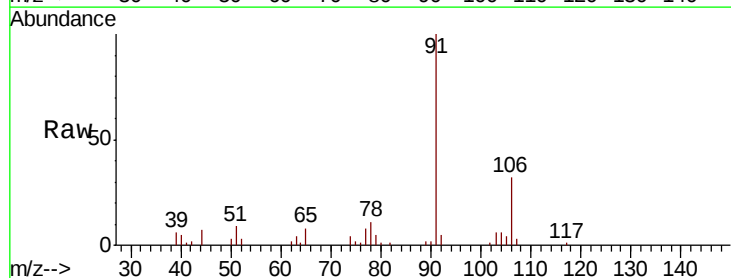
Instrument :
MSVOA_L
ClientSampleId :
BFB

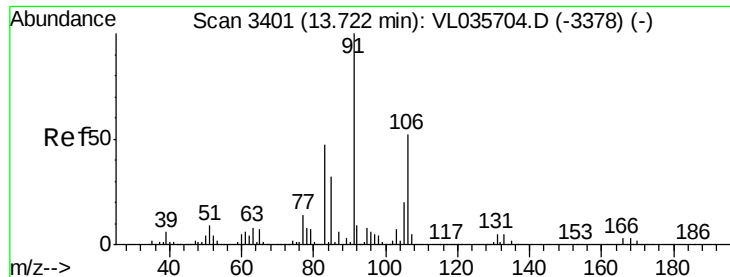
Tot Ion:112 Resp: 38671
Ion Ratio Lower Upper
112 100
77 57.7 48.2 72.2
114 27.9 31.9 39.1#



#58
Ethyl Benzene
Concen: 0.052 ppbv
RT: 12.72 min Scan# 3090
Delta R.T. -0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Tgt Ion: 91 Resp: 20387
Ion Ratio Lower Upper
91 100
106 31.6 29.7 44.5

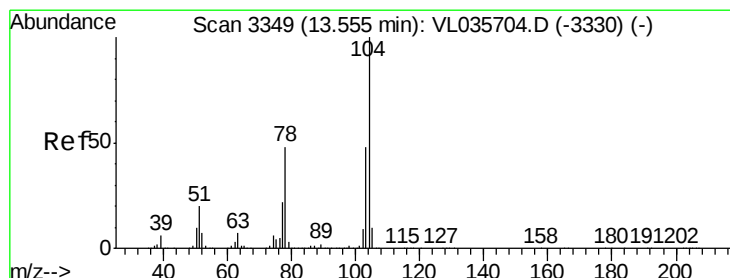
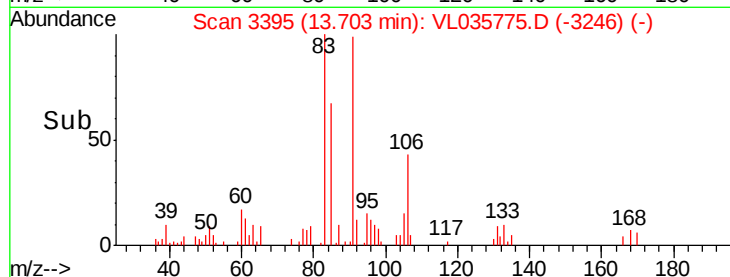
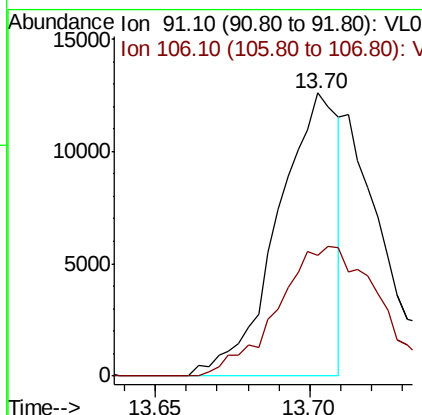
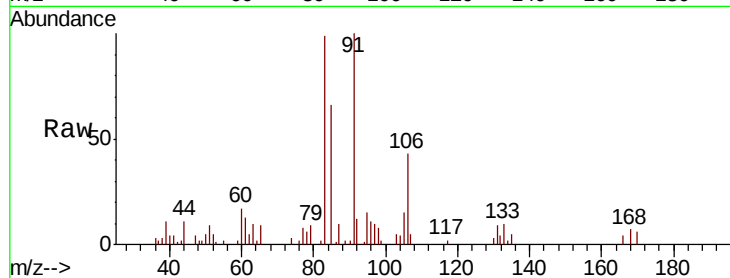




#60
o-Xylene
Concen: 0.050 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. -0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

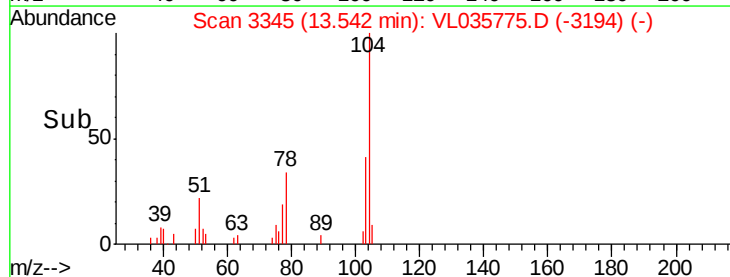
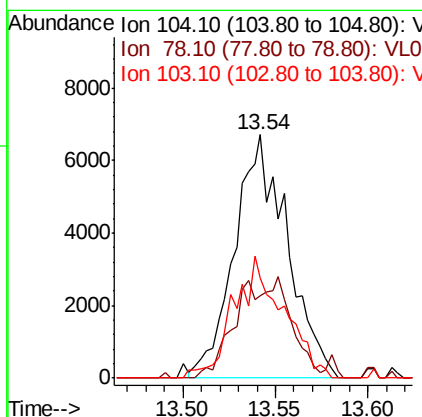
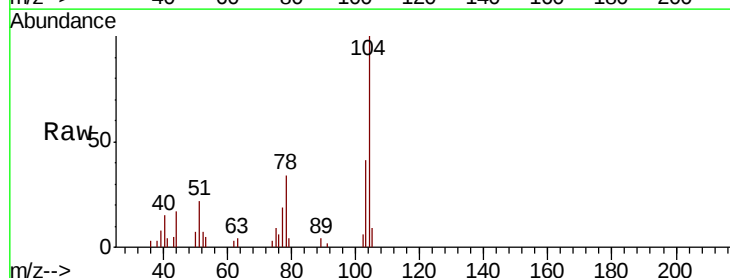
Instrument :
MSVOA_L
ClientSampleId :
BFB

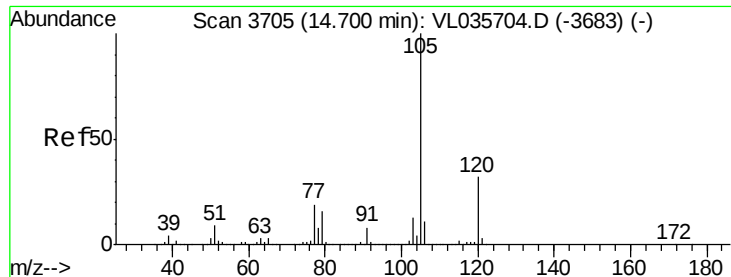
Tot Ion: 91 Resp: 17043
Ion Ratio Lower Upper
91 100
106 77.0 25.0 75.0#



#61
Styrene
Concen: 0.056 ppbv
RT: 13.54 min Scan# 3345
Delta R.T. -0.01 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Tgt Ion: 104 Resp: 13288
Ion Ratio Lower Upper
104 100
78 44.8 37.2 55.8
103 47.2 38.2 57.2





#62

Isopropylbenzene

Concen: 0.081 ppbv

RT: 14.69 min Scan# 3701

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

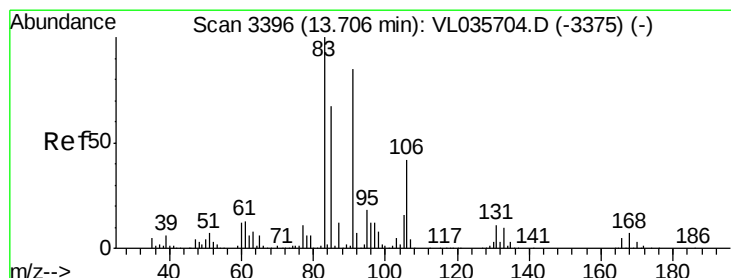
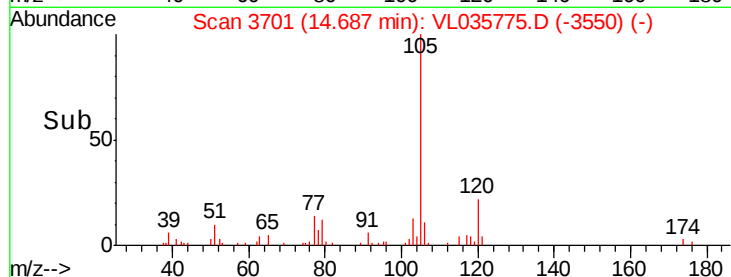
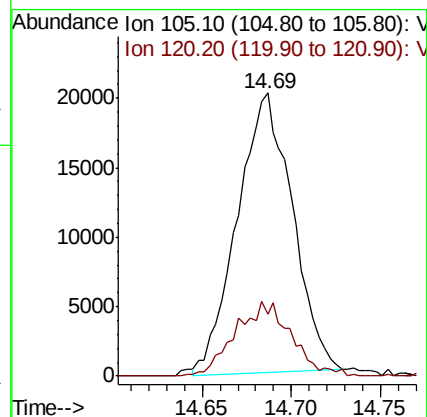
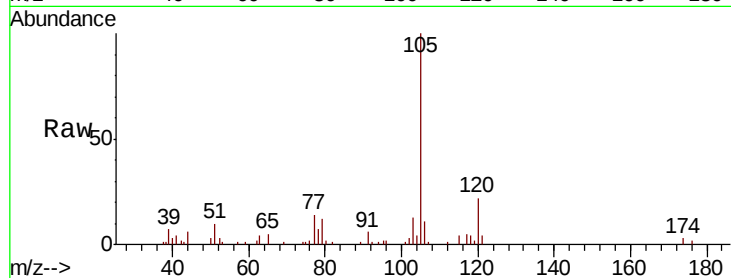
BFB

Tot Ion:105 Resp: 43435

Ion Ratio Lower Upper

105 100

120 27.1 24.1 36.1



#63

1,1,2,2-Tetrachloroethane

Concen: 0.114 ppbv

RT: 13.69 min Scan# 3392

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

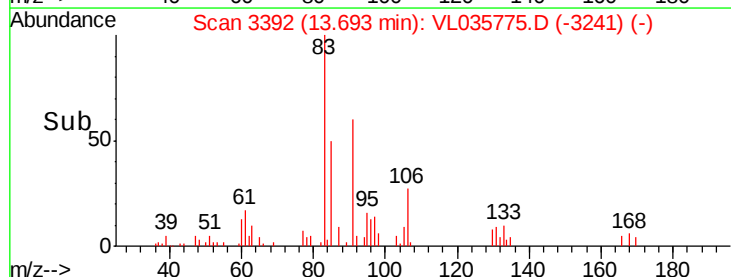
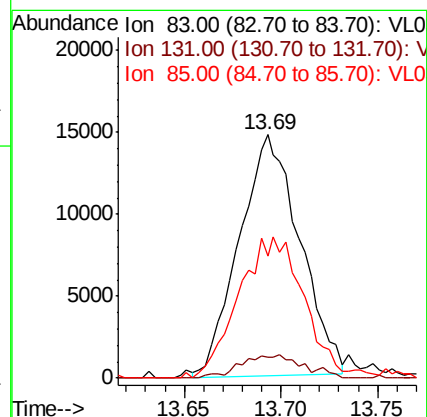
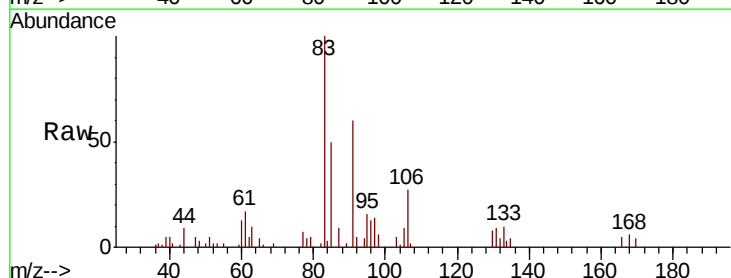
Tgt Ion: 83 Resp: 32017

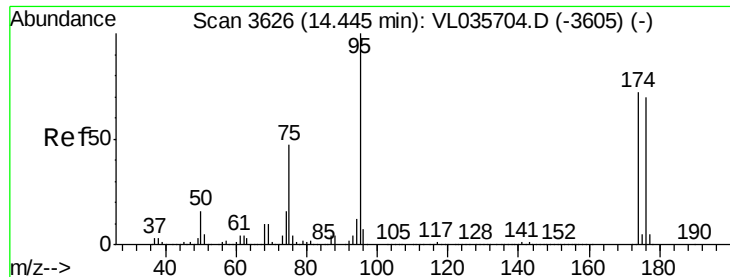
Ion Ratio Lower Upper

83 100

131 9.9 5.3 16.1

85 64.8 33.4 100.2

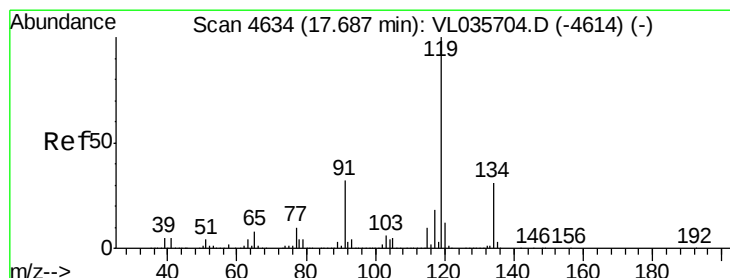
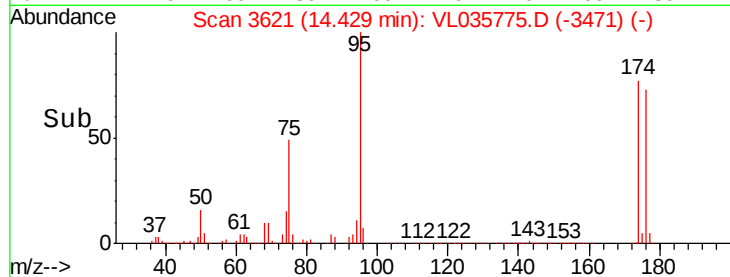
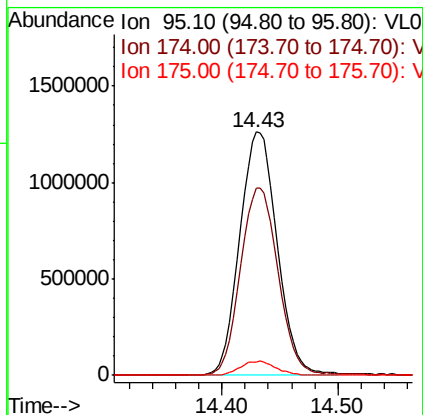
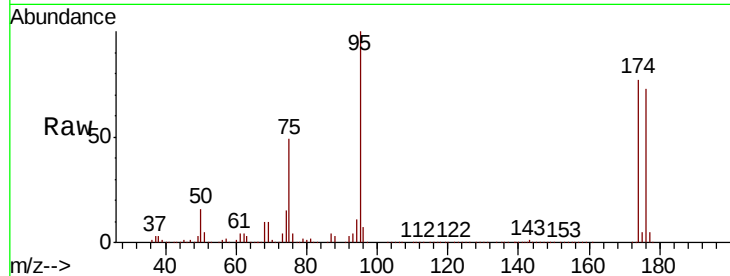




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.772 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

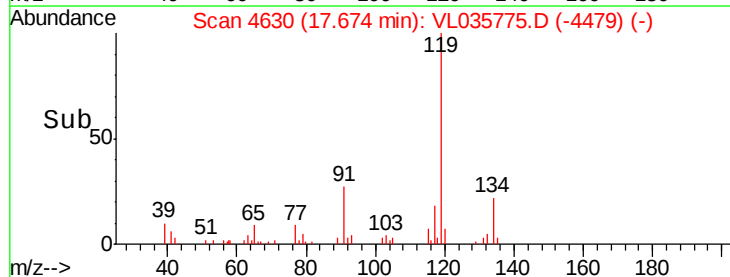
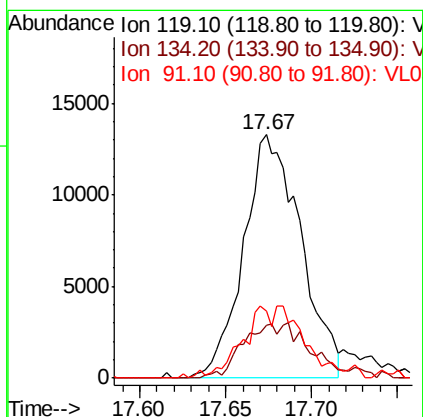
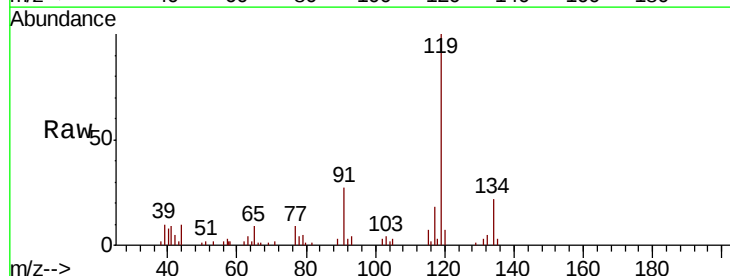
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

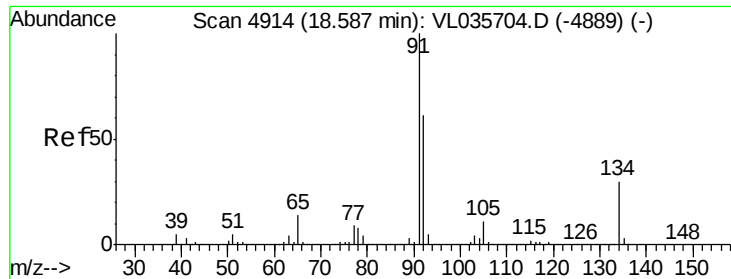
Tot Ion: 95 Resp: 2839006
 Ion Ratio Lower Upper
 95 100
 174 78.6 59.6 89.4
 175 5.6 4.2 6.4



#69
 p-Isopropyltoluene
 Concen: 0.056 ppbv
 RT: 17.67 min Scan# 4630
 Delta R.T. -0.01 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

Tgt Ion: 119 Resp: 30635
 Ion Ratio Lower Upper
 119 100
 134 27.4 23.9 35.9
 91 32.1 23.8 35.6

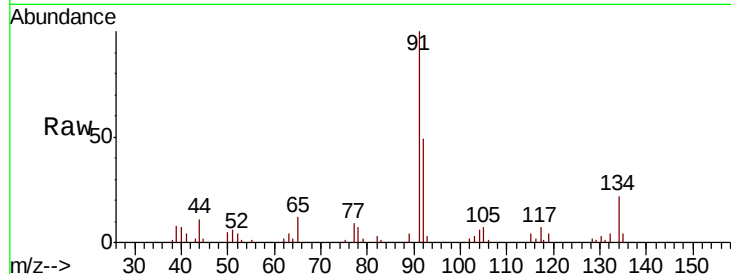




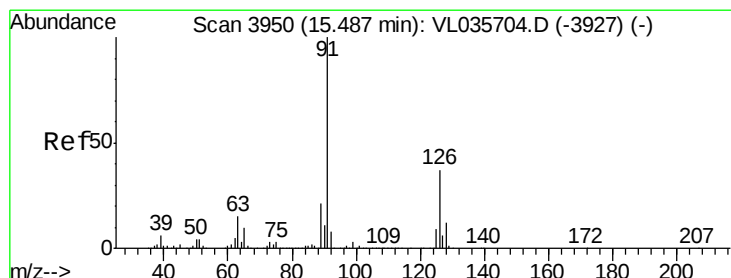
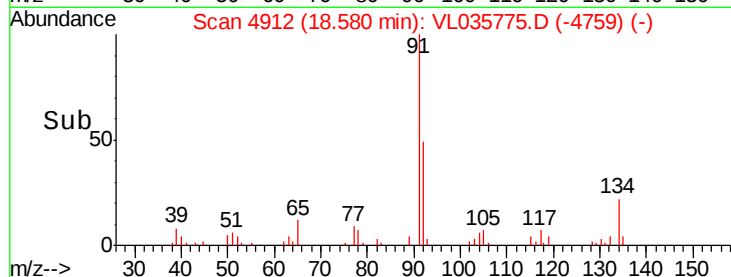
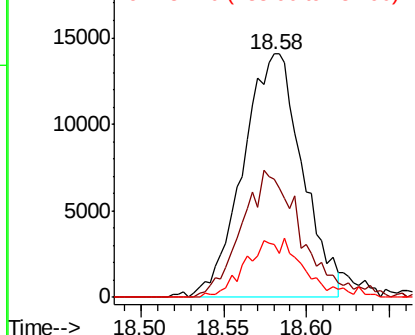
#70
n-Butylbenzene
Concen: 0.063 ppbv
RT: 18.58 min Scan# 4912
Delta R.T. -0.01 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Instrument :
MSVOA_L
ClientSampled :
BFB

Tot Ion: 91 Resp: 35070
Ion Ratio Lower Upper
91 100
92 53.4 47.0 70.4
134 23.6 21.9 32.9

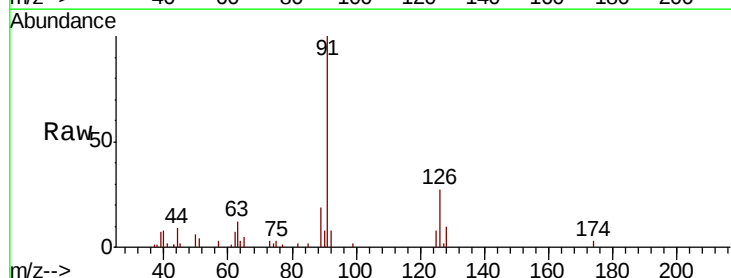


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): V

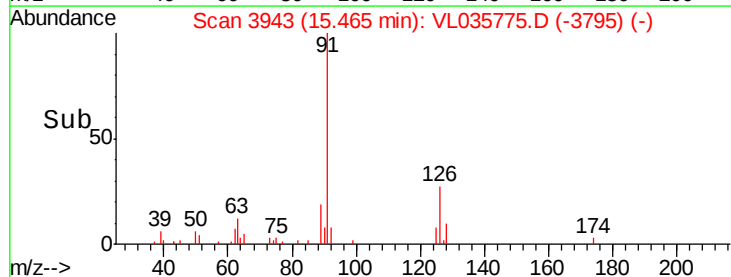
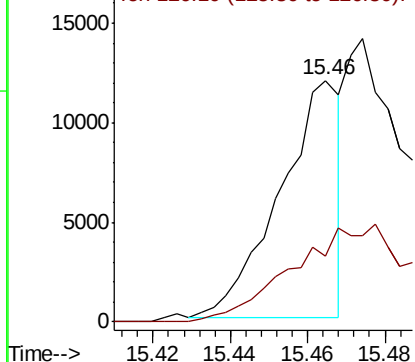


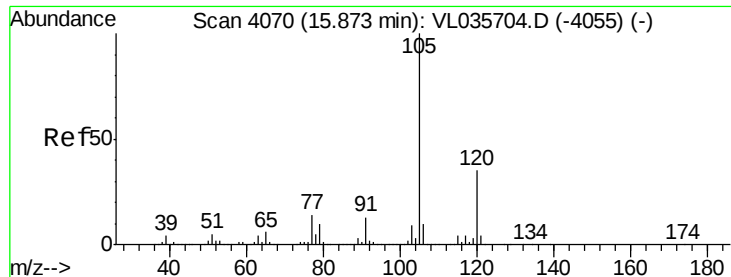
#71
2-Chlorotoluene
Concen: 0.033 ppbv
RT: 15.46 min Scan# 3943
Delta R.T. -0.02 min
Lab File: VL035775.D
Acq: 12 Oct 2020 23:37

Tgt Ion: 91 Resp: 12906
Ion Ratio Lower Upper
91 100
126 0.0 14.4 57.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V





#72

4-Ethyltoluene

Concen: 0.062 ppbv

RT: 15.86 min Scan# 4066

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

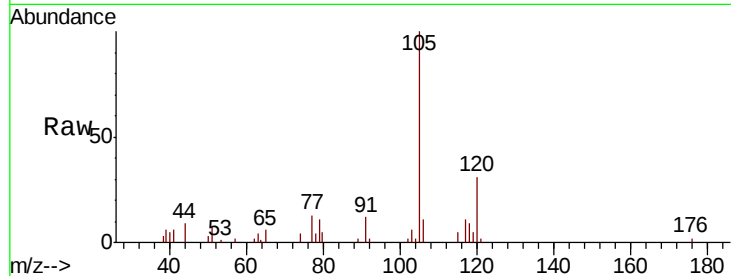
Instrument :

MSVOA_L

ClientSampleId :

BFB

Tot Ion:	105	Resp:	25062
Ion	Ratio	Lower	Upper
105	100		
120	31.4	26.5	39.7
91	16.0	10.2	15.2
77	14.4	10.3	15.5



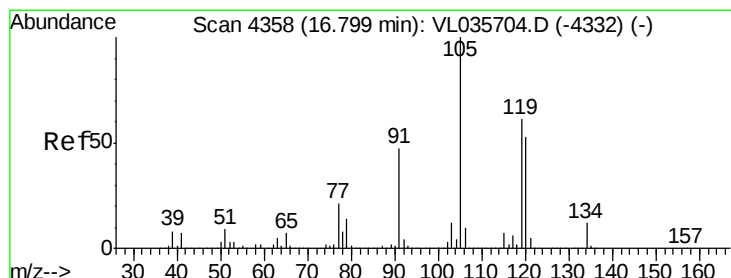
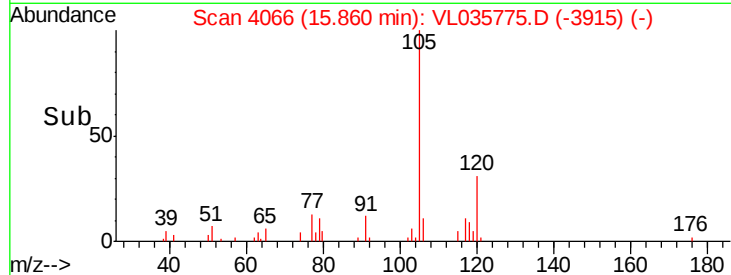
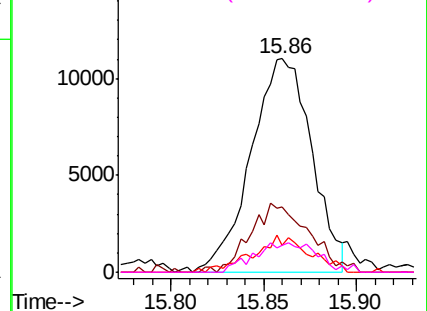
Abundance

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



#74

1,2,4-Trimethylbenzene

Concen: 0.063 ppbv

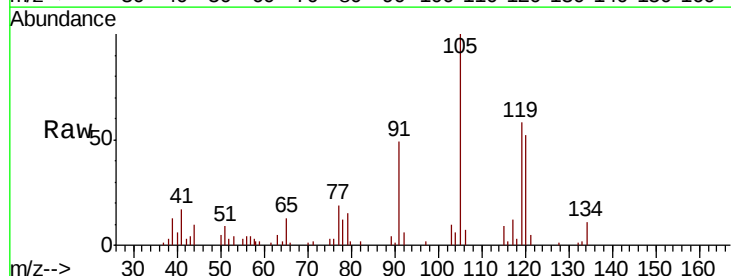
RT: 16.78 min Scan# 4353

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Tgt Ion:	105	Resp:	27512
Ion	Ratio	Lower	Upper
105	100		
120	50.7	42.5	63.7
91	43.3	37.7	56.5
77	16.3	16.7	25.1



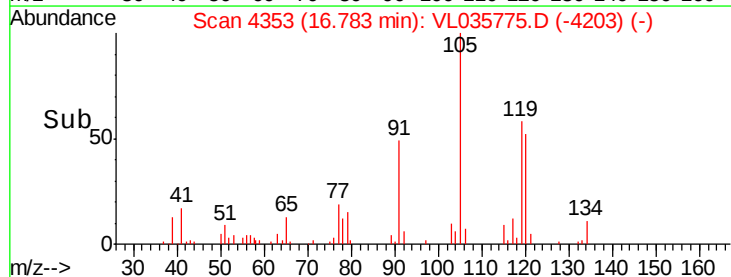
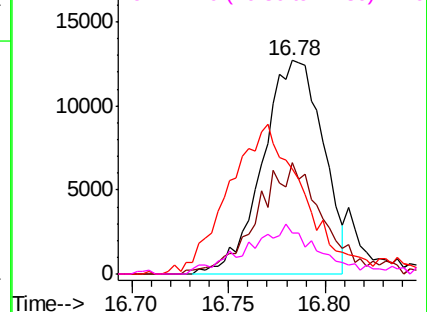
Abundance

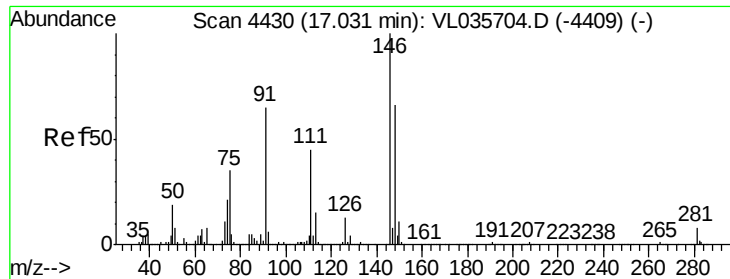
Ion 105.10 (104.80 to 105.80): V

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: 0.133 ppbv

RT: 17.01 min Scan# 4425

Delta R.T. -0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

BFB

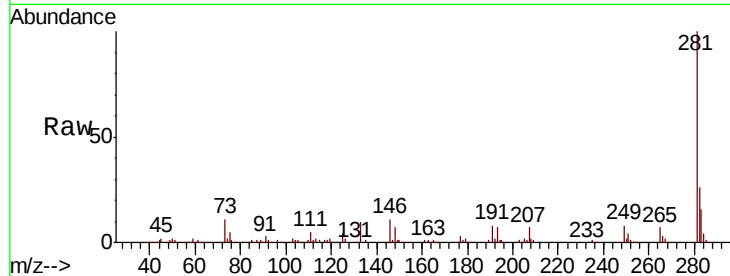
Tot Ion:146 Resp: 39333

Ion Ratio Lower Upper

146 100

111 50.9 22.4 67.0

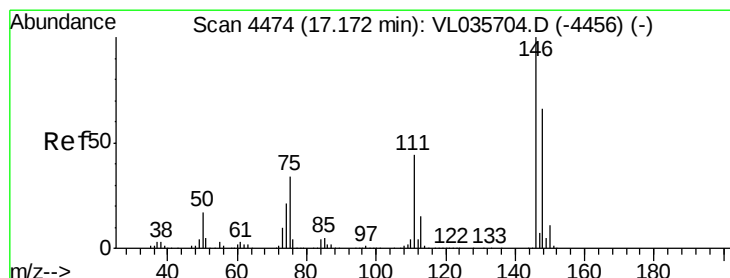
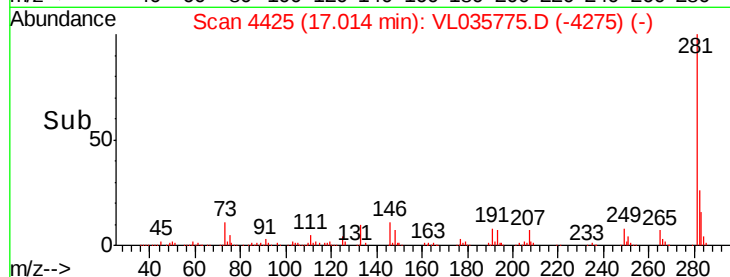
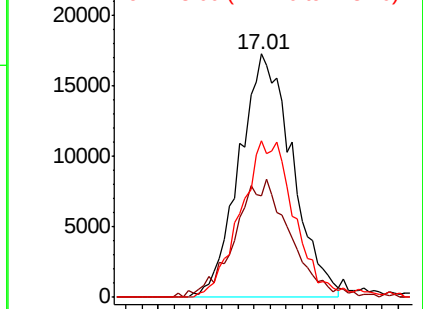
148 66.6 33.0 99.0



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



#76

1,4-Dichlorobenzene

Concen: 0.065 ppbv

RT: 17.16 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

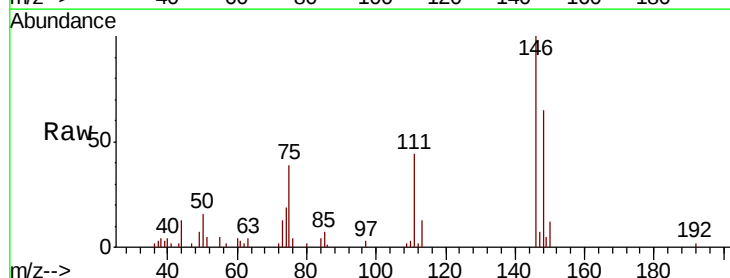
Tgt Ion:146 Resp: 18538

Ion Ratio Lower Upper

146 100

111 71.1 21.4 64.3#

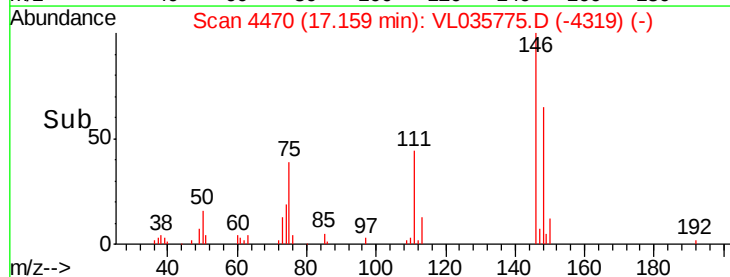
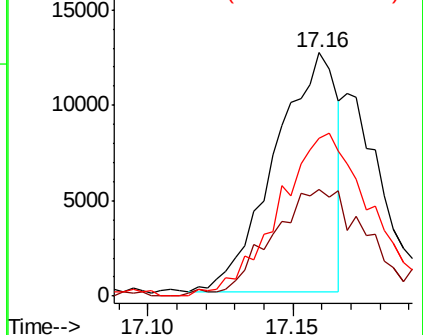
148 106.0 32.6 98.0#

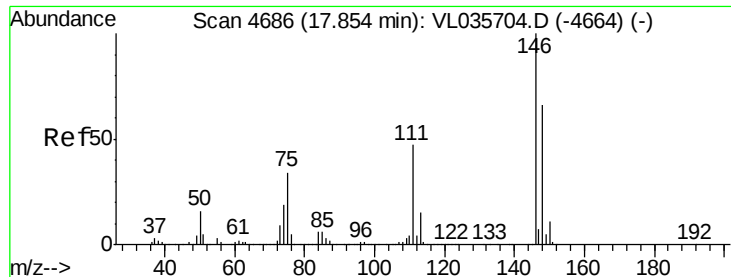


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

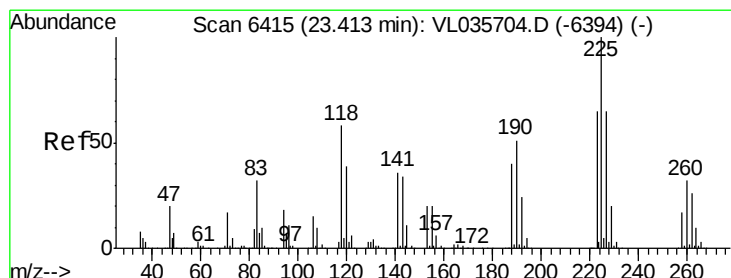
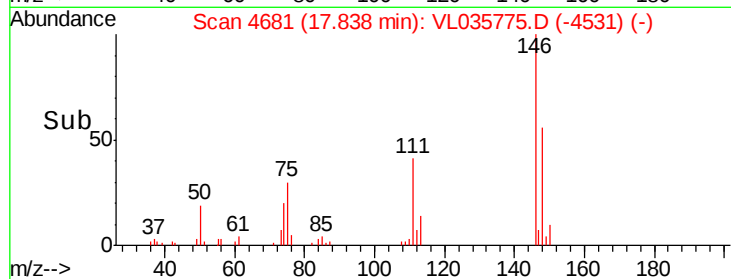
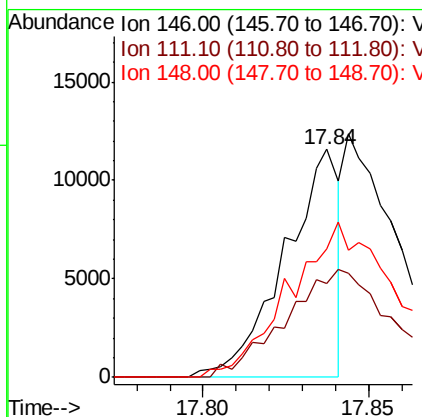
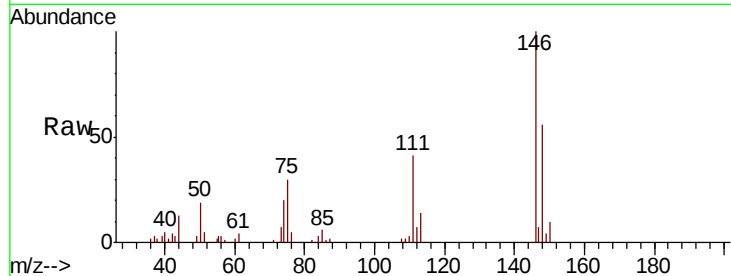




#77
 1,2-Dichlorobenzene
 Concen: 0.047 ppbv
 RT: 17.84 min Scan# 4681
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

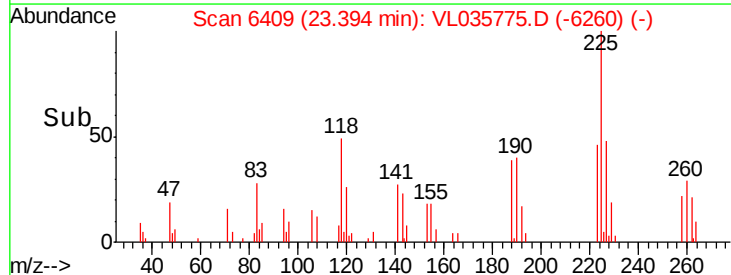
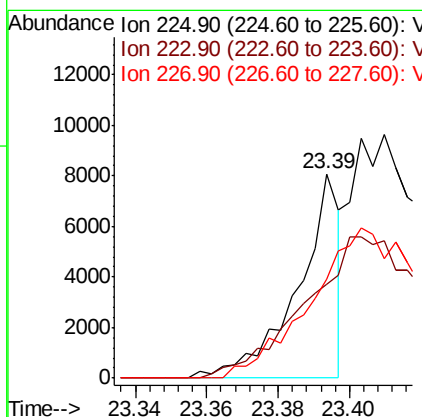
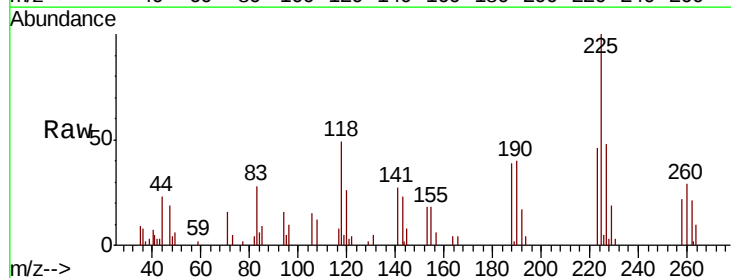
Instrument :
 MSVOA_L
 ClientSampleId :
 BFB

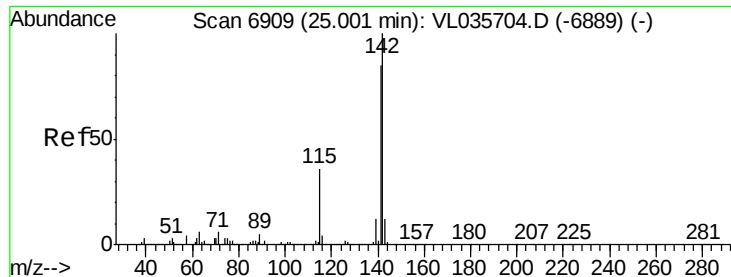
Tot Ion:146 Resp: 13195
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.9 68.5#
 148 0.0 32.6 98.0#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.043 ppbv
 RT: 23.39 min Scan# 6409
 Delta R.T. -0.02 min
 Lab File: VL035775.D
 Acq: 12 Oct 2020 23:37

Tgt Ion:225 Resp: 6594
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.3 76.9#
 227 0.0 51.6 77.4#





#80

Naphthalene, 2-methyl-

Concen: 0.031 ppbv

RT: 25.02 min Scan# 6915

Delta R.T. 0.02 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

Instrument :

MSVOA_L

ClientSampleId :

BFB

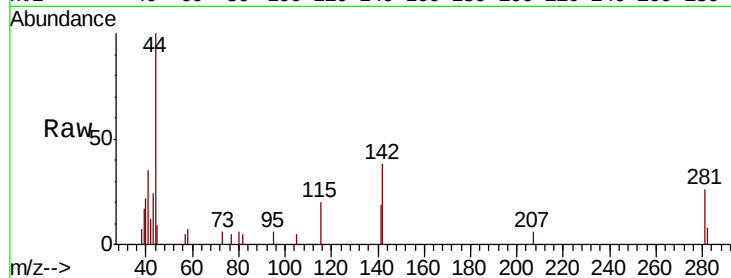
Tot Ion:142 Resp: 2984

Ion Ratio Lower Upper

142 100

141 78.5 68.2 102.4

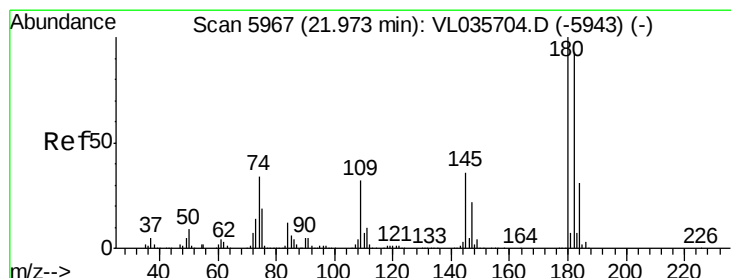
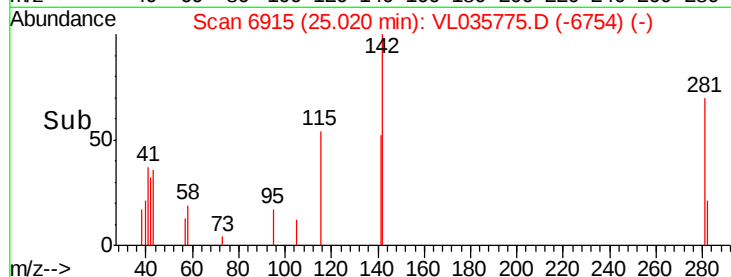
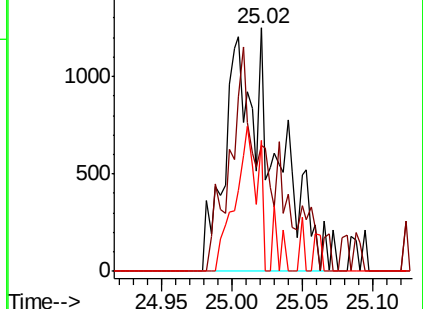
115 33.3 27.8 41.6



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: 0.039 ppbv

RT: 21.96 min Scan# 5963

Delta R.T. -0.01 min

Lab File: VL035775.D

Acq: 12 Oct 2020 23:37

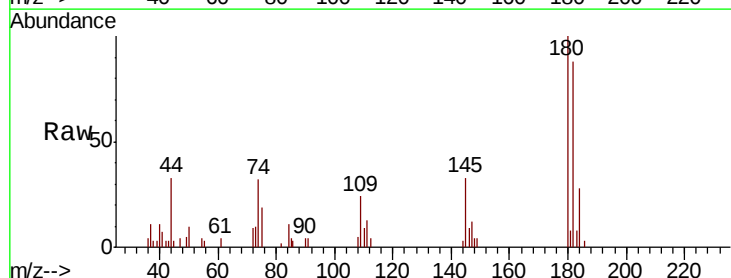
Tgt Ion:180 Resp: 8467

Ion Ratio Lower Upper

180 100

182 0.0 76.2 114.2#

184 0.0 24.6 37.0#



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

