

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\
 Data File : VL035745.D
 Acq On : 8 Oct 2020 14:56
 Operator : SY/AP
 Sample : L4275-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 09 01:17:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed 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	5.67	49	1024925	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3853817	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3800691	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2975532	10.45	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	60345	0.359	ppbv	93
3) Chlorodifluoromethane	2.98	51	1620209	14.694	ppbv	91
4) Chloromethane	3.16	50	99368	1.678	ppbv #	47
5) Vinyl Chloride	3.25	62	413489	5.902	ppbv	98
7) Chloroethane	3.56	64	1388689	54.044	ppbv	98
9) Propene	3.01	41	34848	0.870	ppbv	93
11) Trichlorofluoromethane	3.95	101	64250	0.268	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	10215	0.057	ppbv #	13
13) Ethanol	3.61	45	24780	2.510	ppbv	100
15) Acetone	3.85	43	489503	4.439	ppbv	95
16) 1,3-Butadiene	3.30	39	10677	0.265	ppbv #	5
17) tert-Butyl alcohol	4.31	59	33433	0.278	ppbv	99
18) 1,1-Dichloroethene	4.29	96	30023	0.383	ppbv	87
19) Isopropyl Alcohol	3.98	45	16118	0.269	ppbv #	89
20) Methylene Chloride	4.34	84	393627	4.859	ppbv	96
22) trans-1,2-Dichloroethene	4.89	96	7576	0.092	ppbv #	82
23) Vinyl Acetate	5.07	43	68261	0.505	ppbv #	91
24) 1,1-Dichloroethane	5.01	63	3228142	21.940	ppbv	99
25) Ethyl Acetate	5.69	43	22626	0.114	ppbv #	61
26) Hexane	5.69	57	47700	0.439	ppbv #	51
28) Methyl tert-Butyl Ether	5.05	73	5666	0.033	ppbv #	57
29) Chloroform	5.76	83	27854	0.126	ppbv	93
30) Cyclohexane	7.14	84	76247	0.711	ppbv #	84
31) cis-1,2-Dichloroethene	5.55	61	1313381	12.511	ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	126807	0.651	ppbv	99
34) 2-Butanone	5.26	43	41375	0.325	ppbv	95
35) Carbon Tetrachloride	7.02	117	15351	0.076	ppbv #	89
36) Benzene	6.90	78	7708555	30.697	ppbv #	87
37) 1,2-Dichloroethane	6.31	62	253635	1.938	ppbv	100
38) Trichloroethene	7.84	130	16079	0.128	ppbv	88
39) 1,2-Dichloropropane	7.18	63	758097	8.329	ppbv #	30
44) 2,2,4-Trimethylpentane	7.88	57	13541	0.038	ppbv #	13
52) Tetrachloroethene	11.24	164	6252	0.052	ppbv #	84
53) Toluene	9.83	91	16041084	54.172	ppbv #	76
57) Chlorobenzene	12.17	112	1024448	3.569	ppbv	97
58) Ethyl Benzene	12.73	91	2364266	6.198	ppbv	95
59) m/p-Xylene	12.99	91	13109491	39.352	ppbv	92
60) o-Xylene	13.72	91	10361781	30.748	ppbv	89
61) Styrene	13.55	104	15647	0.067	ppbv #	30
62) Isopropylbenzene	14.69	105	2489247	4.762	ppbv	95
64) n-propylbenzene	15.59	120	1057253	6.911	ppbv	84

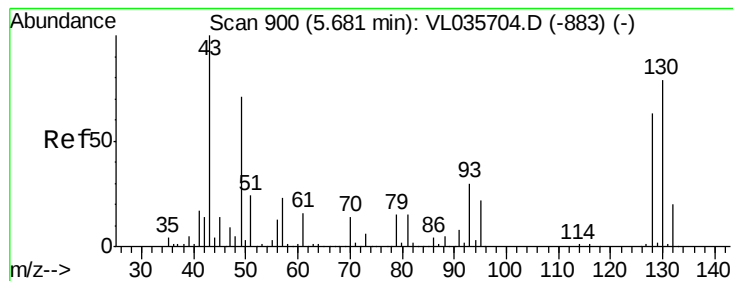
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	16.80	119	3534860	7.438	ppbv #	67
66) Benzyl Chloride	16.80	91	3604156	25.032	ppbv #	64
67) sec-Butylbenzene	17.32	105	300011	0.457	ppbv	92
69) p-Isopropyltoluene	17.68	119	249646	0.468	ppbv #	72
70) n-Butylbenzene	18.59	91	661120	1.202	ppbv #	1
71) 2-Chlorotoluene	15.59	91	4339628	11.382	ppbv #	39
72) 4-Ethyltoluene	15.87	105	10228321	25.622	ppbv #	90
73) 1,3,5-Trimethylbenzene	16.03	105	11329975	30.033	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.80	105	17279878	40.634	ppbv #	70
75) 1,3-Dichlorobenzene	17.02	146	12994	0.045	ppbv #	6
76) 1,4-Dichlorobenzene	17.17	146	178985	0.645	ppbv	97
77) 1,2-Dichlorobenzene	17.85	146	194730	0.710	ppbv	99
78) Hexachloro-1,3-Butadiene	23.41	225	28564	0.189	ppbv	90
79) Naphthalene	22.24	128	204833	0.505	ppbv	97
80) Naphthalene,2-methyl-	25.00	142	13939	0.146	ppbv #	82
81) 1,2,4-Trichlorobenzene	21.96	180	7329	0.035	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

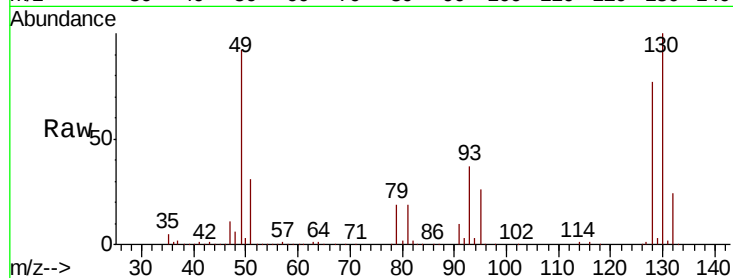
Tot Ion: 49 Resp: 1024925

Ion Ratio Lower Upper

49 100

128 83.0 43.1 129.4

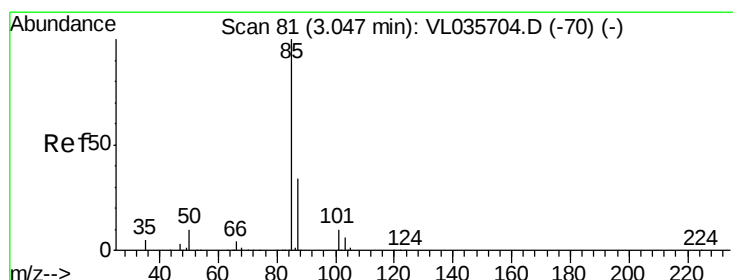
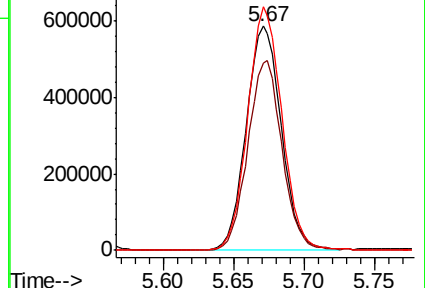
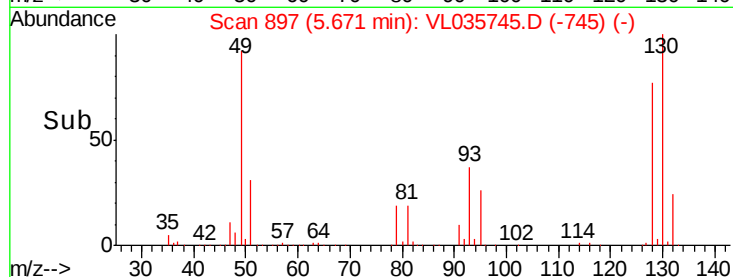
130 106.1 54.9 164.7



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: 0.359 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035745.D

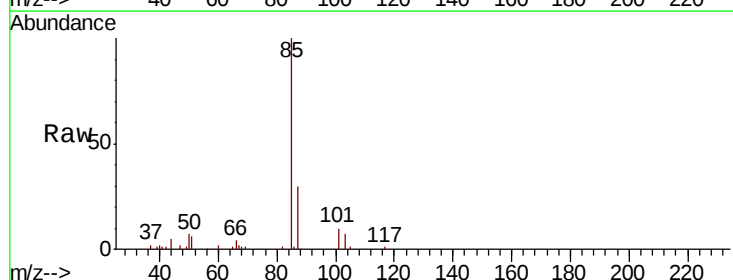
Acq: 8 Oct 2020 14:56

Tgt Ion: 85 Resp: 60345

Ion Ratio Lower Upper

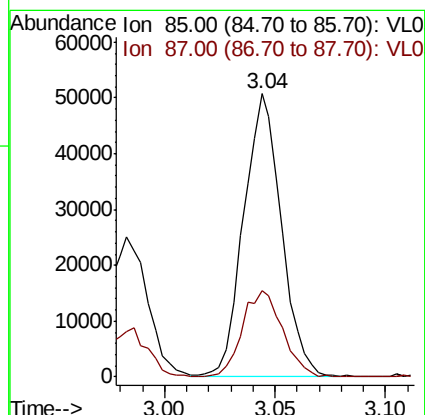
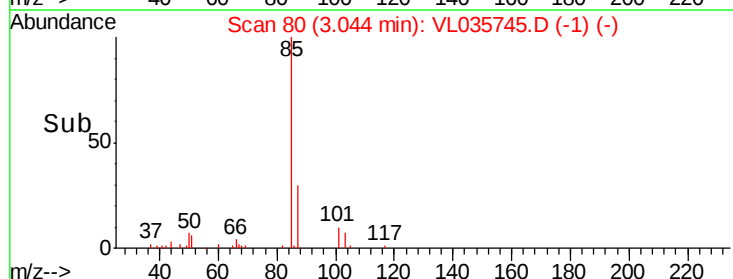
85 100

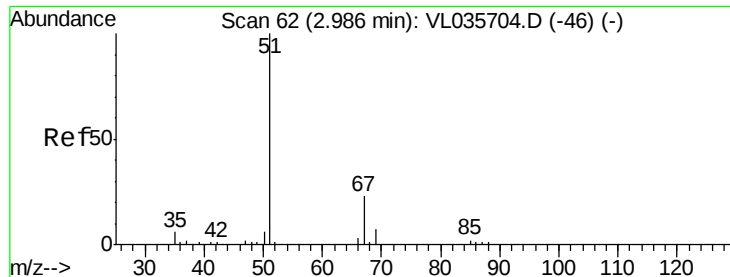
87 30.3 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 14.694 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

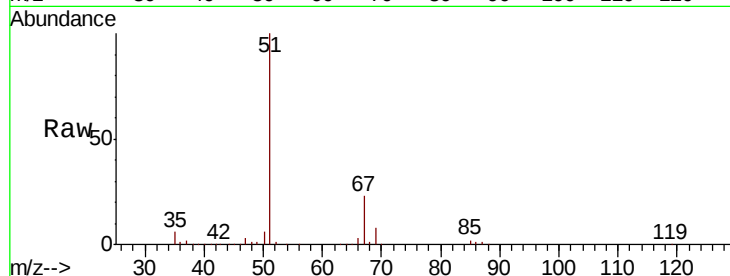
ClientSampled :

Tot Ion: 51 Resp: 1620209

Ion Ratio Lower Upper

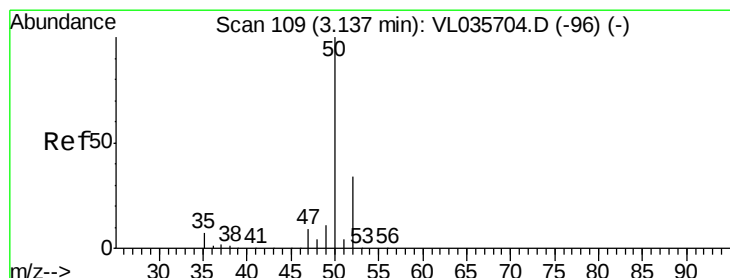
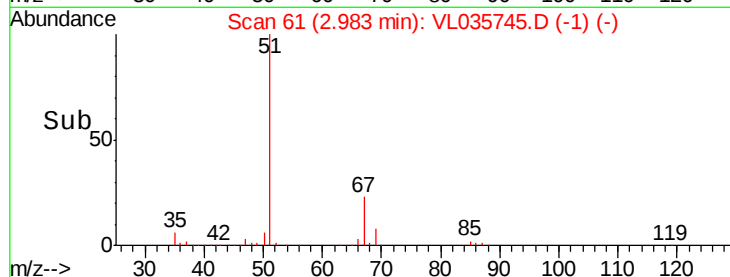
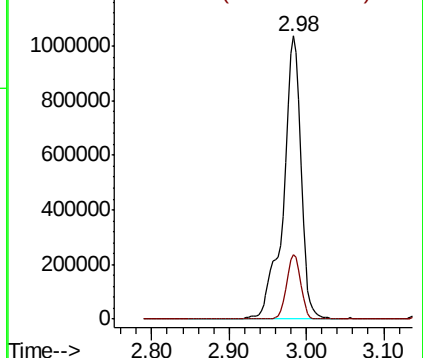
51 100

67 18.1 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: 1.678 ppbv

RT: 3.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VL035745.D

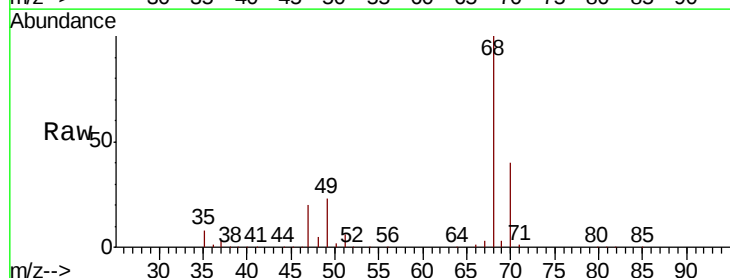
Acq: 8 Oct 2020 14:56

Tgt Ion: 50 Resp: 99368

Ion Ratio Lower Upper

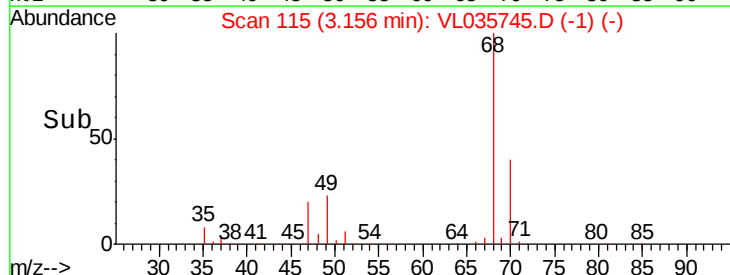
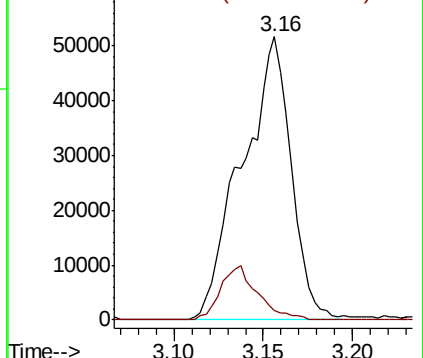
50 100

52 3.4 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: 5.902 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

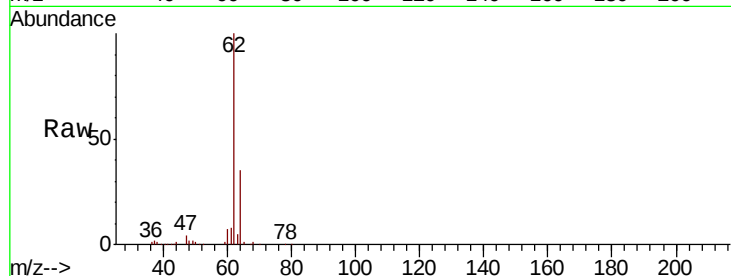
ClientSampleId :

Tot Ion: 62 Resp: 413489

Ion Ratio Lower Upper

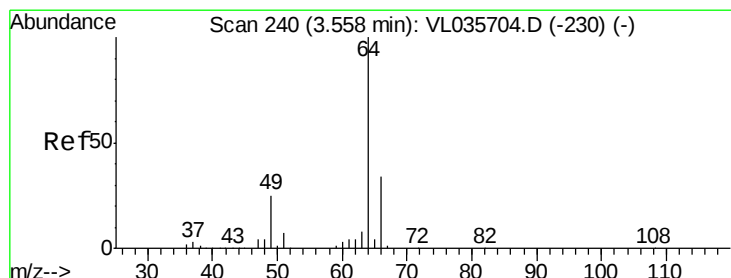
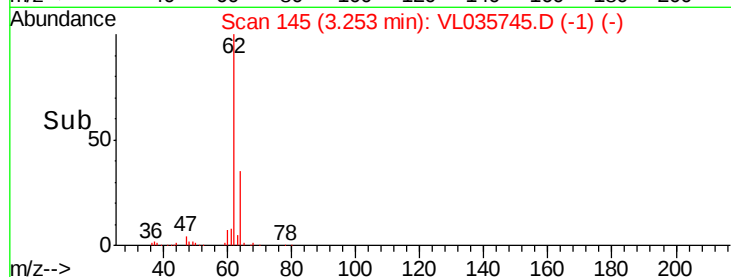
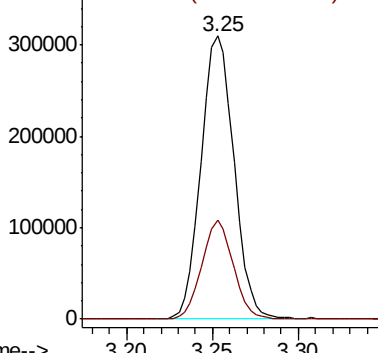
62 100

64 34.6 26.8 40.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 54.044 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL035745.D

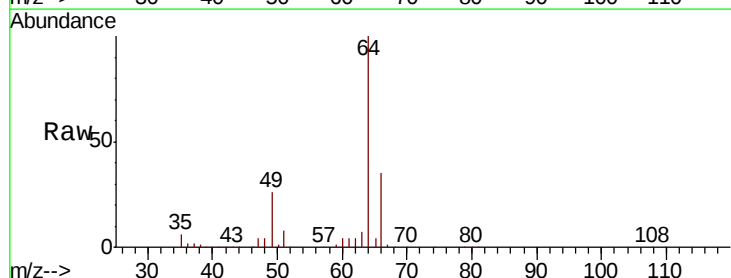
Acq: 8 Oct 2020 14:56

Tgt Ion: 64 Resp: 1388689

Ion Ratio Lower Upper

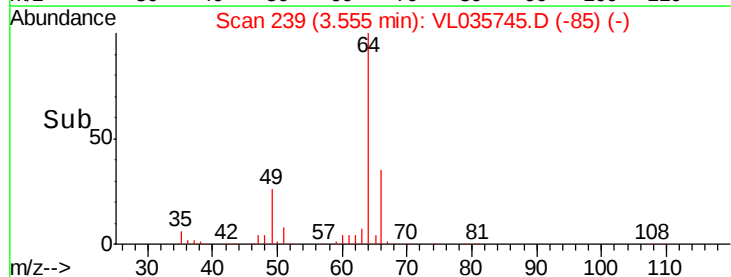
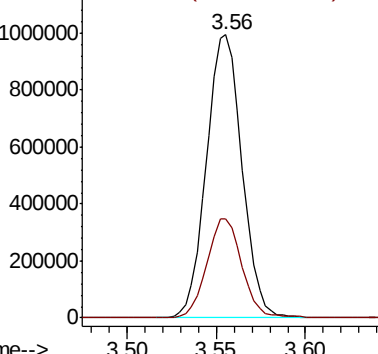
64 100

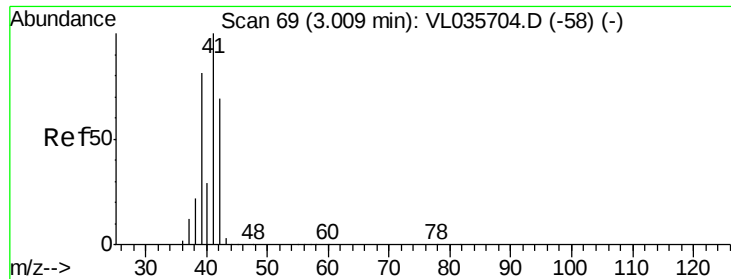
66 35.0 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.870 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

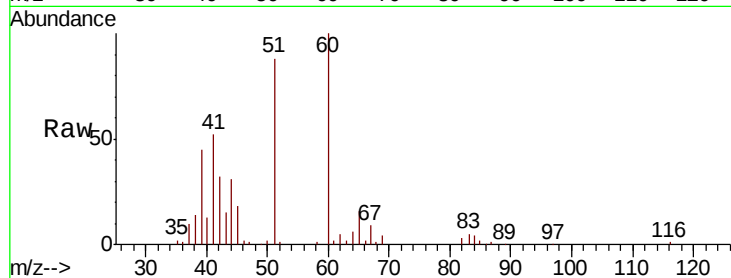
ClientSampleId :

Tot Ion: 41 Resp: 34848

Ion Ratio Lower Upper

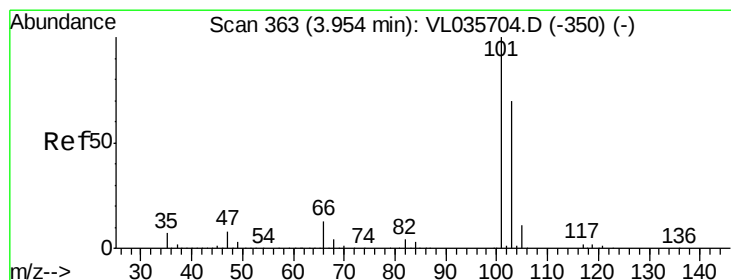
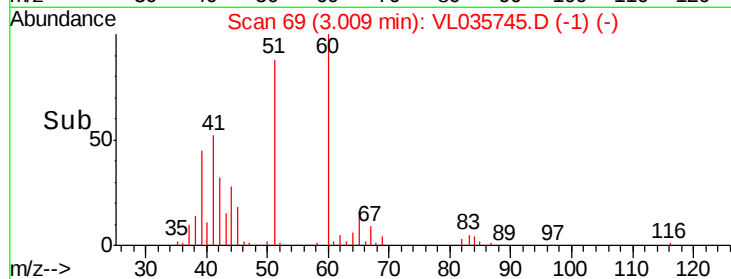
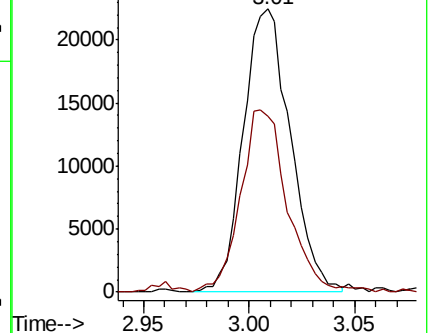
41 100

42 64.3 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.268 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.00 min

Lab File: VL035745.D

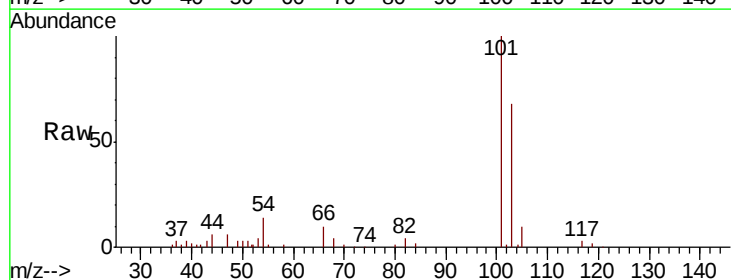
Acq: 8 Oct 2020 14:56

Tgt Ion:101 Resp: 64250

Ion Ratio Lower Upper

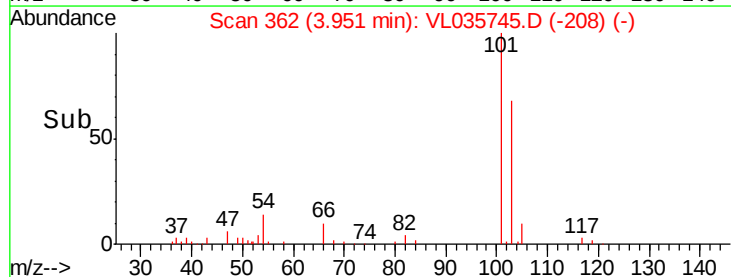
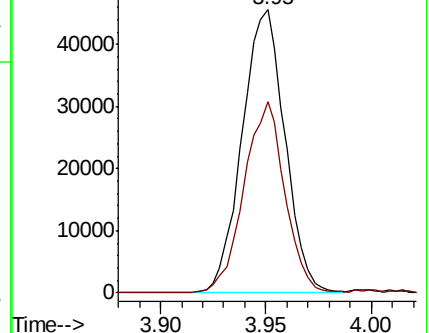
101 100

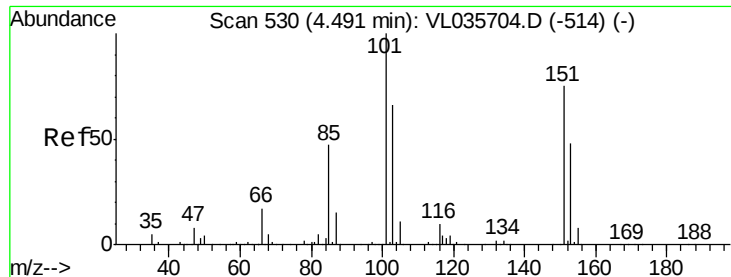
103 67.6 55.6 83.4



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: 0.057 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

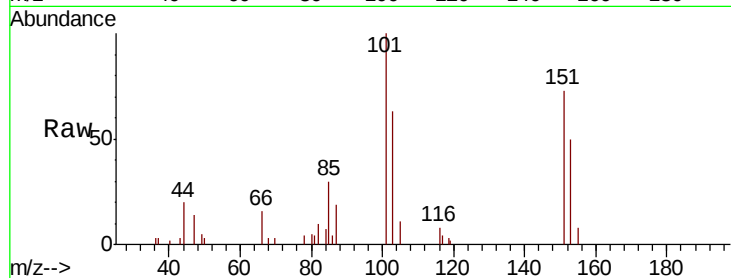
ClientSampleId :

Tot Ion:101 Resp: 10215

Ion Ratio Lower Upper

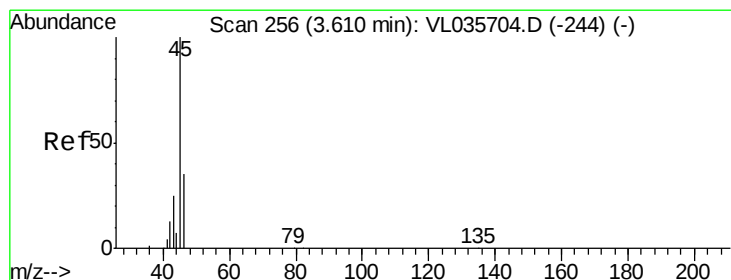
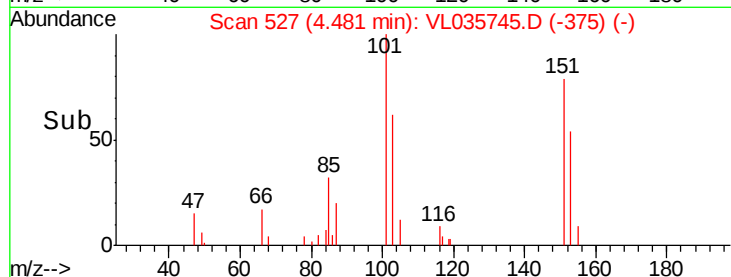
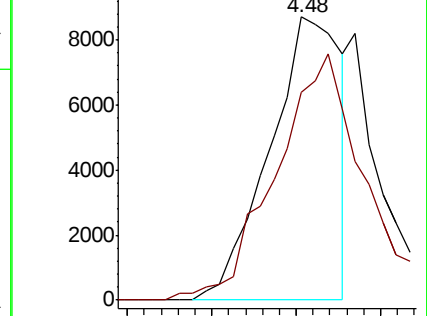
101 100

151 0.0 59.1 88.7#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 2.510 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL035745.D

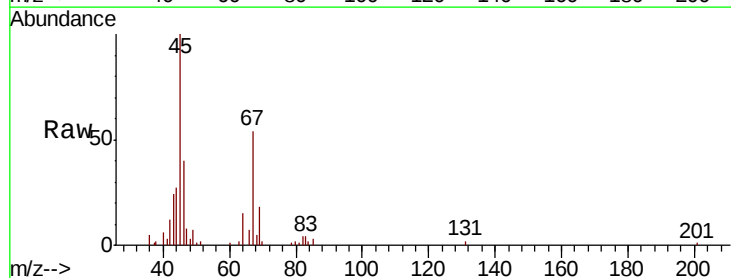
Acq: 8 Oct 2020 14:56

Tgt Ion: 45 Resp: 24780

Ion Ratio Lower Upper

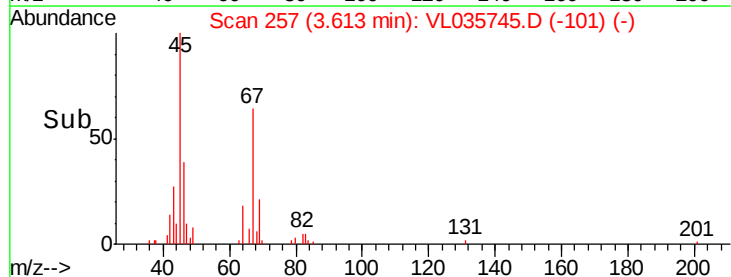
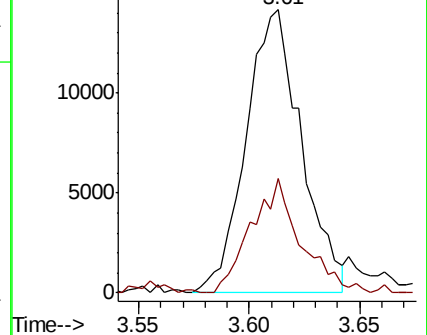
45 100

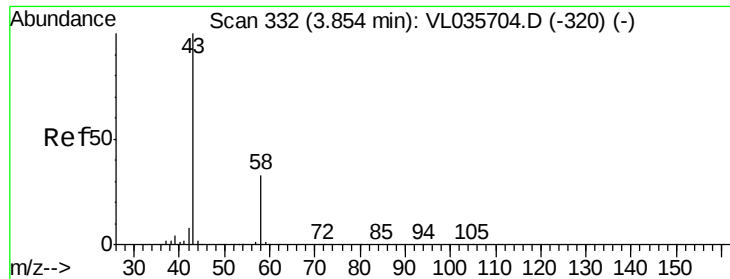
46 36.6 14.7 58.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 4.439 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

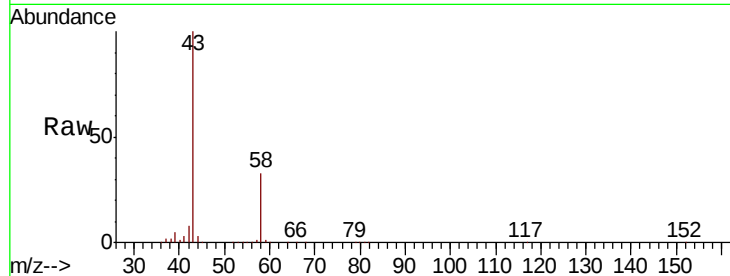
ClientSampleId :

Tot Ion: 43 Resp: 489503

Ion Ratio Lower Upper

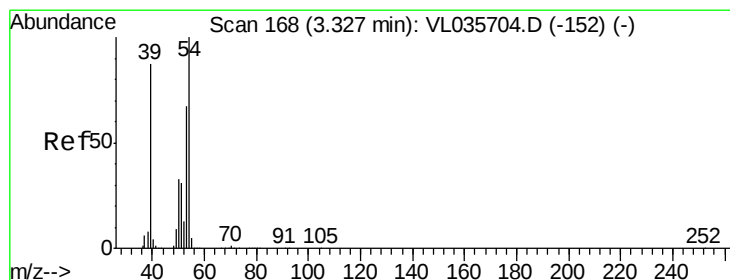
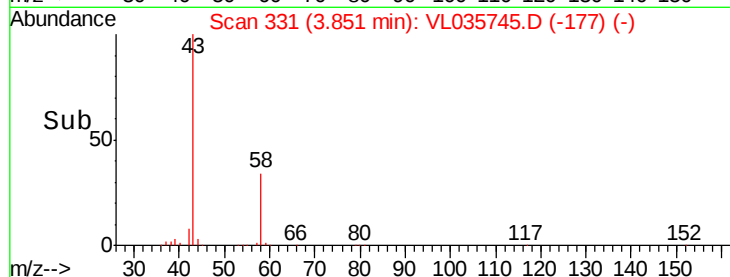
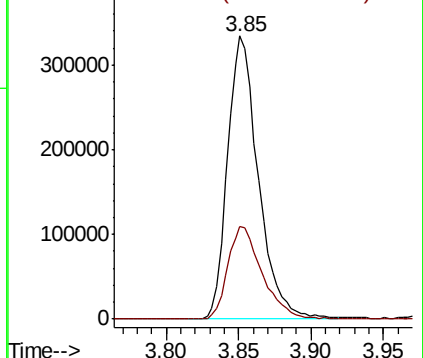
43 100

58 36.9 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: 0.265 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.03 min

Lab File: VL035745.D

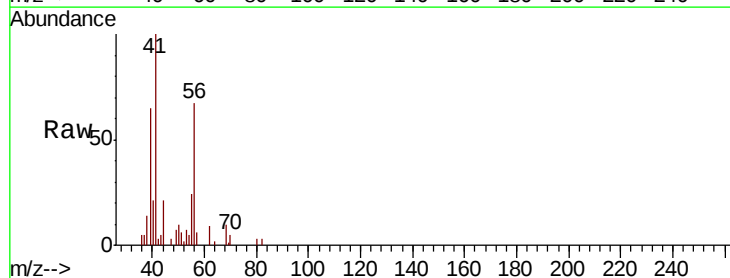
Acq: 8 Oct 2020 14:56

Tgt Ion: 39 Resp: 10677

Ion Ratio Lower Upper

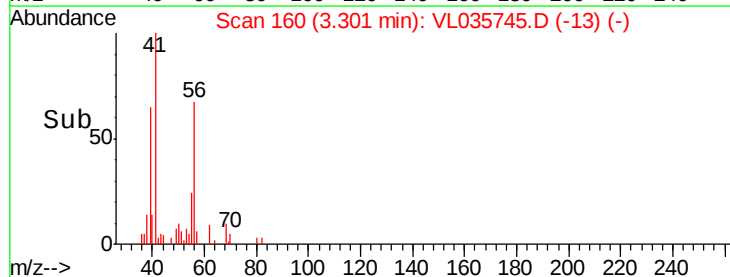
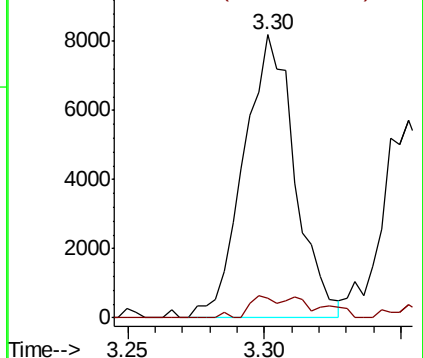
39 100

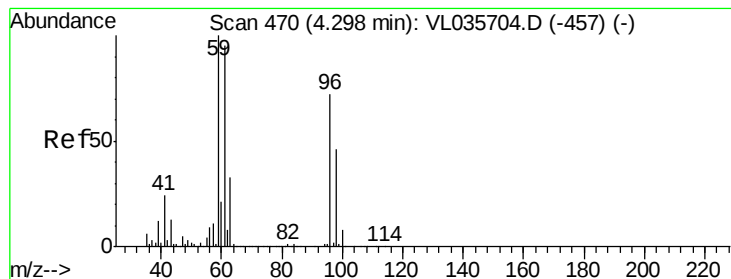
54 9.5 87.4 131.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.278 ppbv

RT: 4.31 min Scan# 475

Delta R.T. 0.02 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

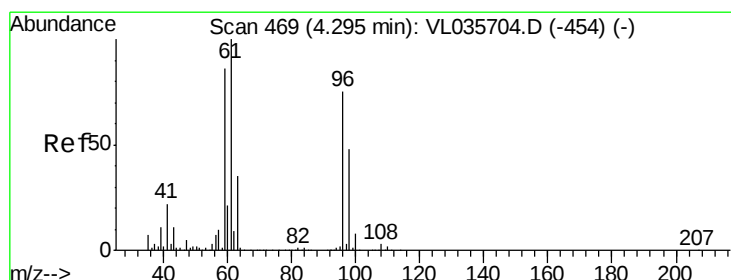
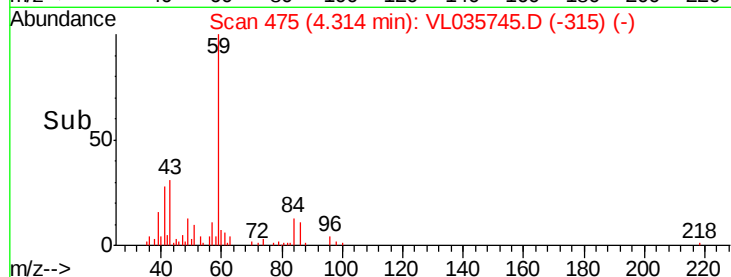
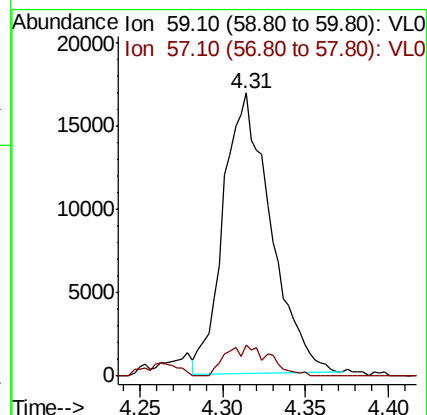
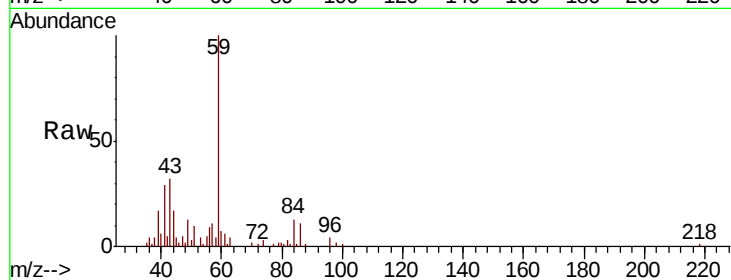
ClientSampleId :

Tot Ion: 59 Resp: 33433

Ion Ratio Lower Upper

59 100

57 10.3 8.5 12.7



#18

1,1-Dichloroethene

Concen: 0.383 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

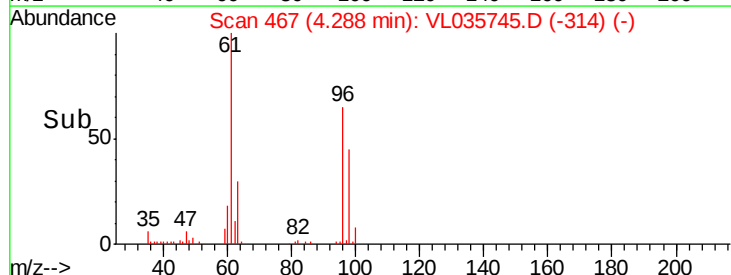
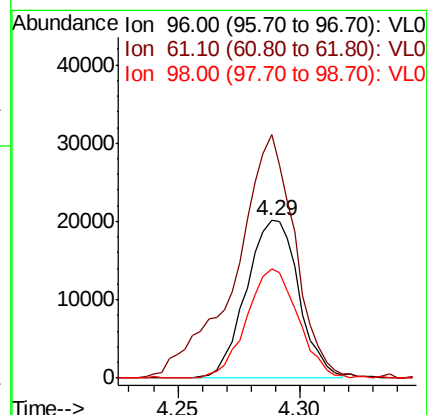
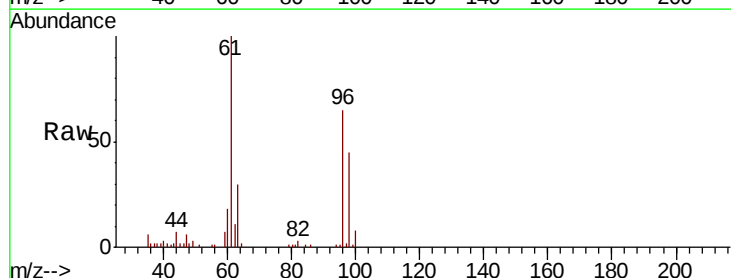
Tgt Ion: 96 Resp: 30023

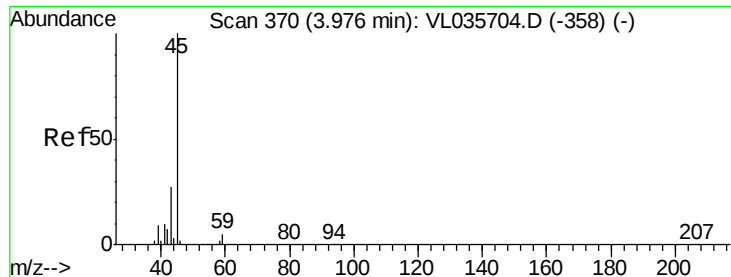
Ion Ratio Lower Upper

96 100

61 151.7 106.7 160.1

98 69.1 50.8 76.2





#19

Isopropyl Alcohol

Concen: 0.269 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

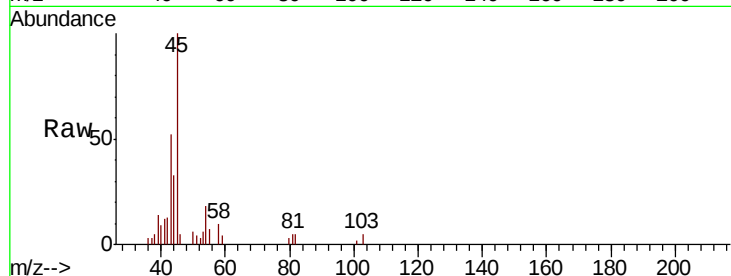
ClientSampleId :

Tot Ion: 45 Resp: 16118

Ion Ratio Lower Upper

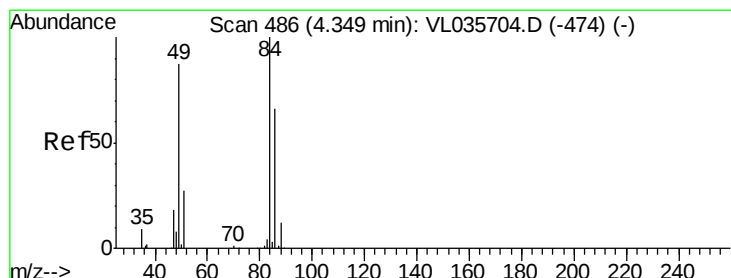
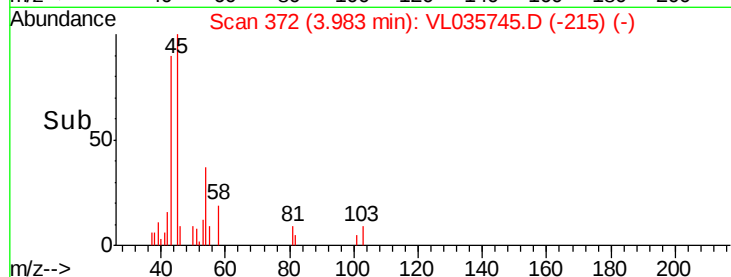
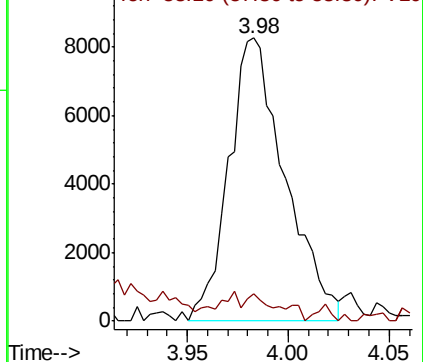
45 100

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: 4.859 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Tgt Ion: 84 Resp: 393627

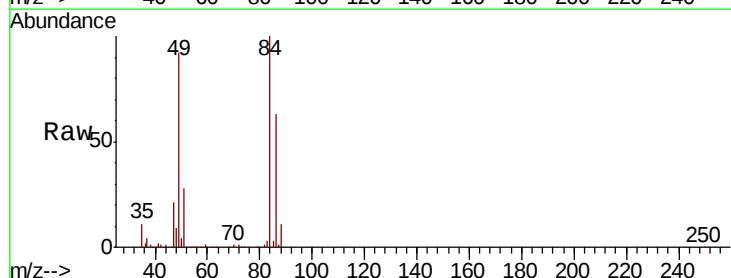
Ion Ratio Lower Upper

84 100

49 91.9 69.8 104.6

51 28.1 21.8 32.8

86 63.3 52.6 78.8

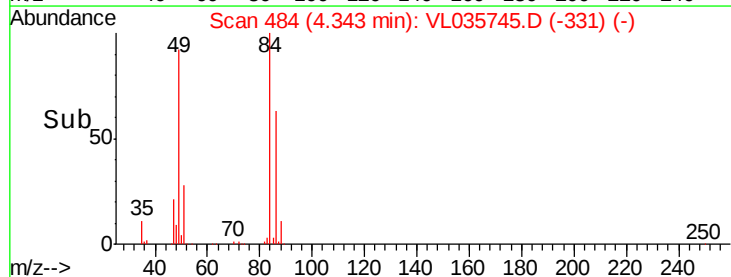
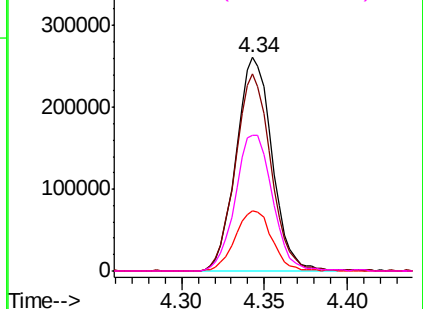


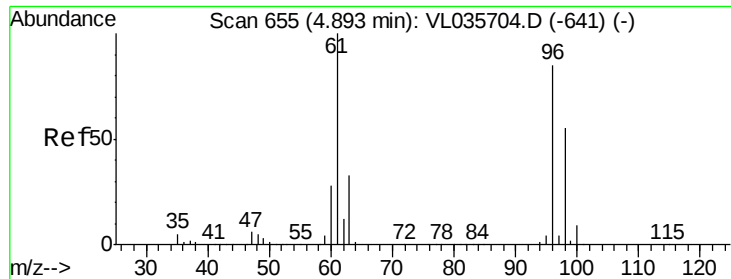
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.092 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :
MSVOA_L
ClientSampleId :

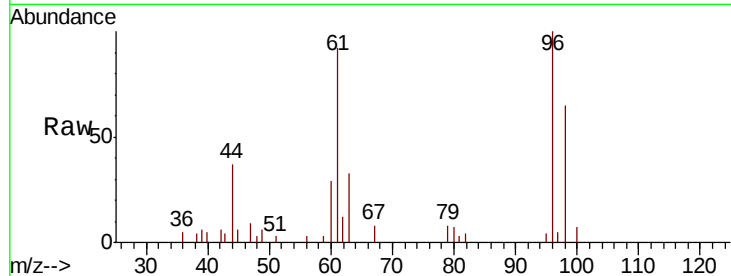
Tot Ion: 96 Resp: 7576

Ion Ratio Lower Upper

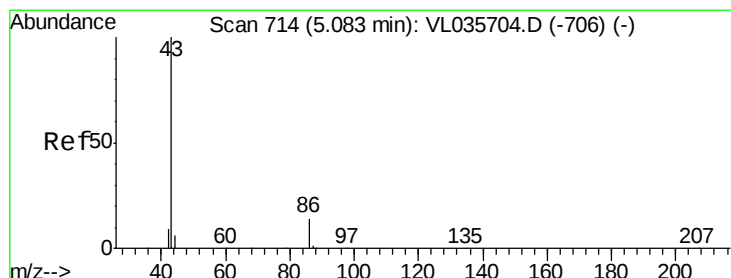
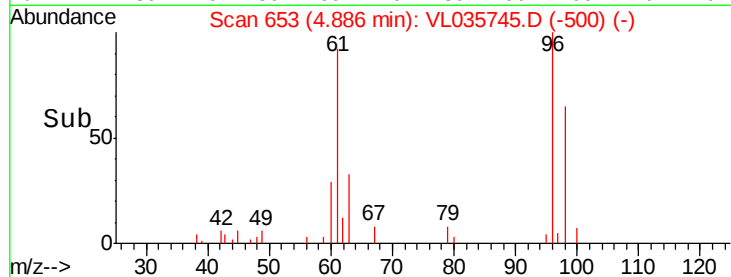
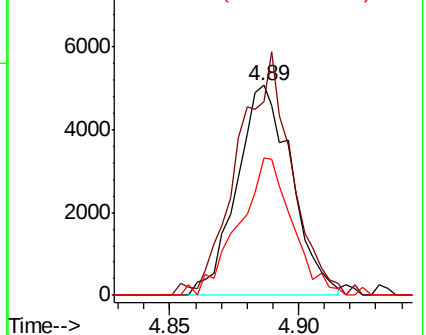
96 100

61 88.4 93.7 140.5#

98 61.6 51.2 76.8



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



#23

Vinyl Acetate

Concen: 0.505 ppbv

RT: 5.07 min Scan# 710

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Tgt Ion: 43 Resp: 68261

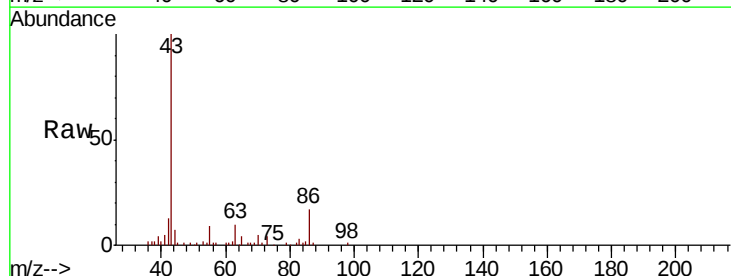
Ion Ratio Lower Upper

43 100

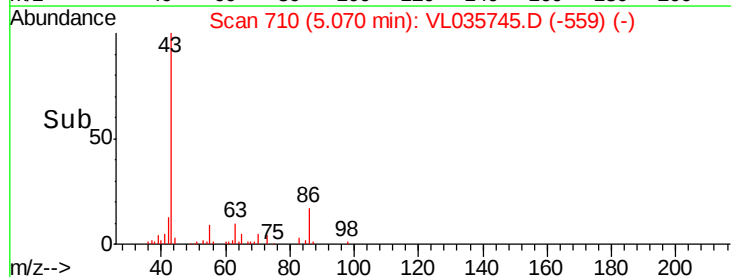
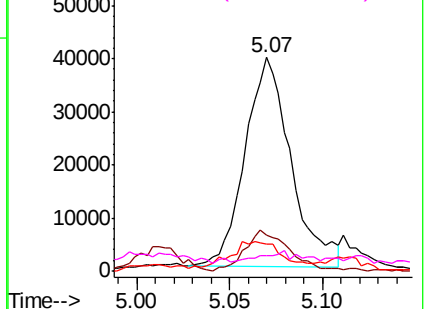
86 15.7 9.7 14.5#

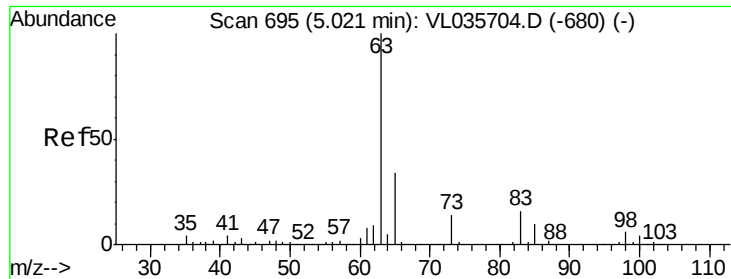
42 11.9 7.9 11.9

44 0.8 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: 21.940 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

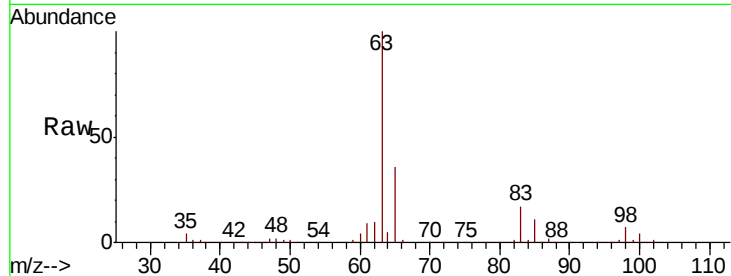
Tot Ion: 63 Resp: 3228142

Ion Ratio Lower Upper

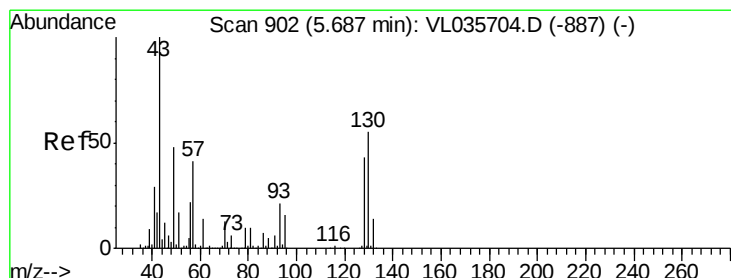
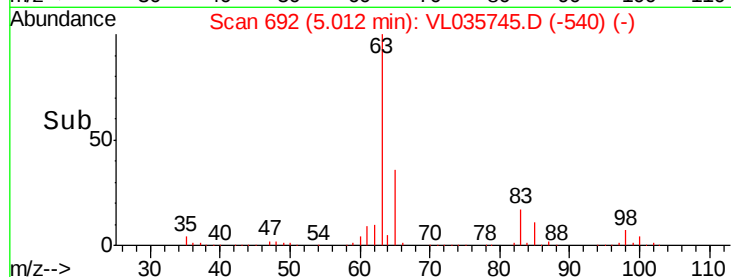
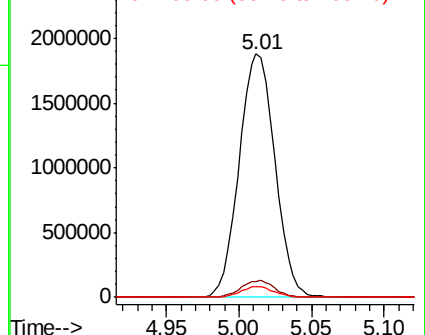
63 100

98 6.7 3.3 9.8

100 4.2 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: 0.114 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Tgt Ion: 43 Resp: 22626

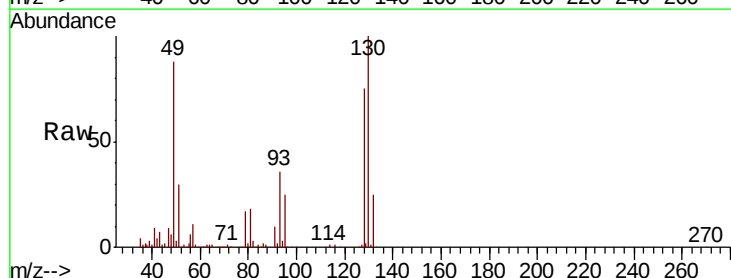
Ion Ratio Lower Upper

43 100

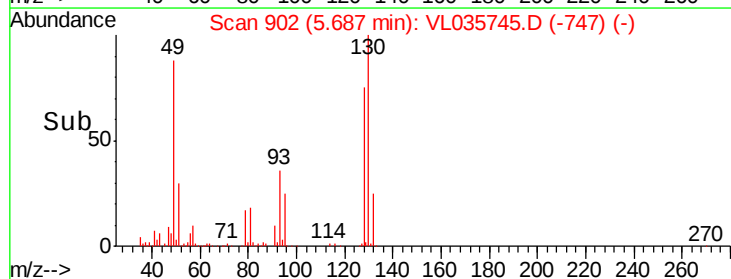
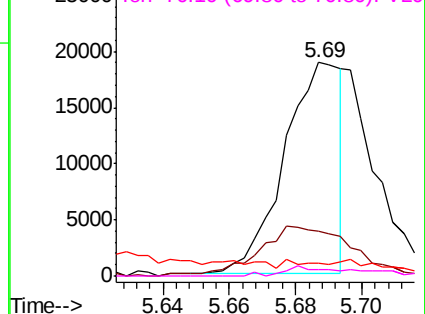
45 38.8 8.6 12.8#

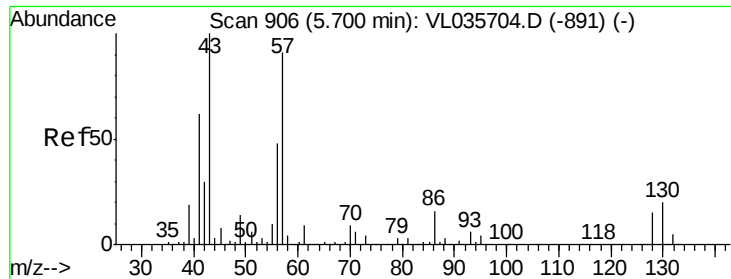
61 0.0 10.4 15.6#

70 6.2 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: 0.439 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 47700

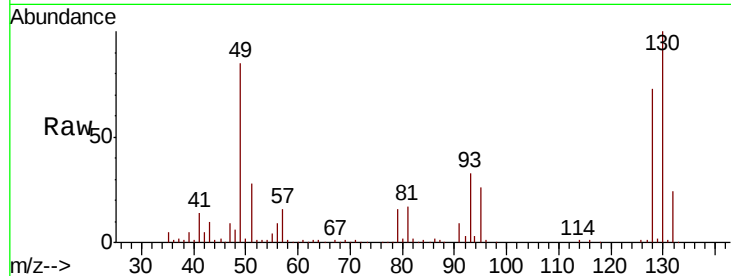
Ion Ratio Lower Upper

57 100

41 84.2 57.9 86.9

43 72.8 143.8 215.6#

56 57.3 43.0 64.6

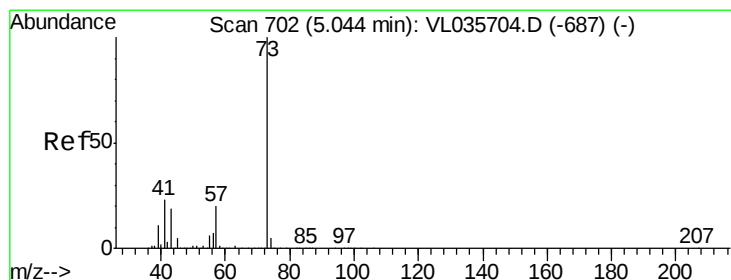
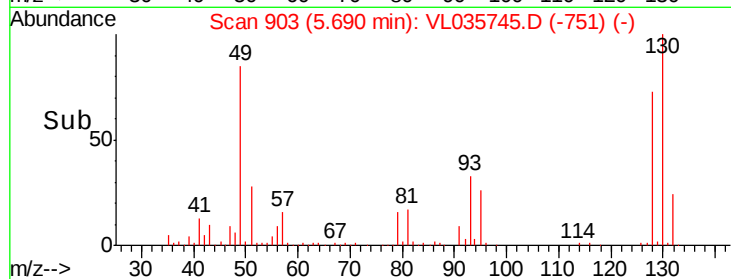
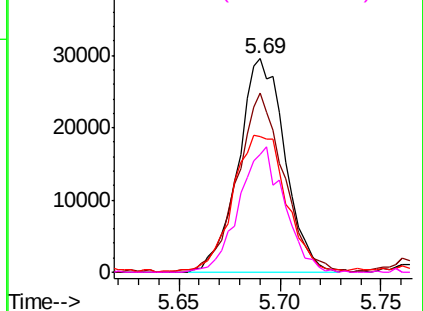


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#28

Methyl tert-Butyl Ether

Concen: 0.033 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL035745.D

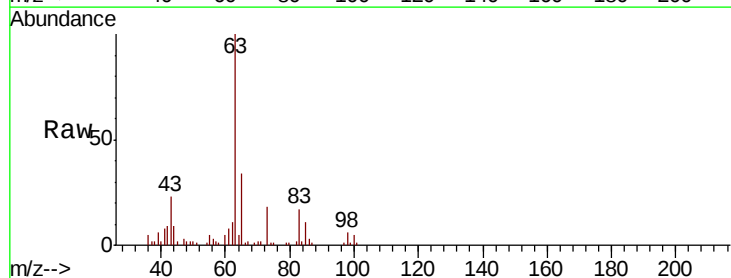
Acq: 8 Oct 2020 14:56

Tgt Ion: 73 Resp: 5666

Ion Ratio Lower Upper

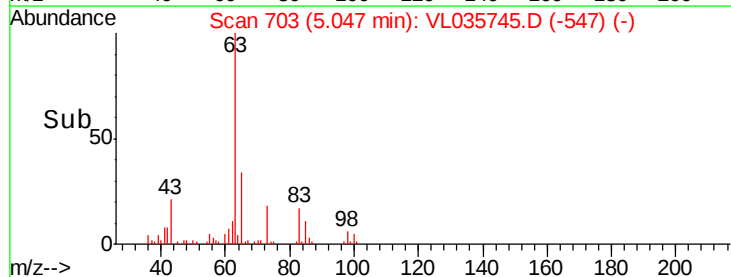
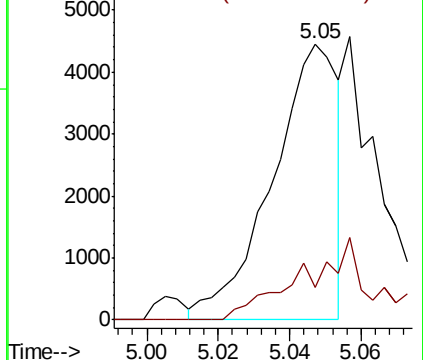
73 100

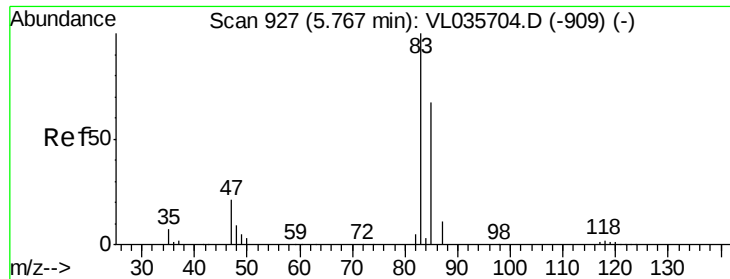
57 0.0 15.6 23.4#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

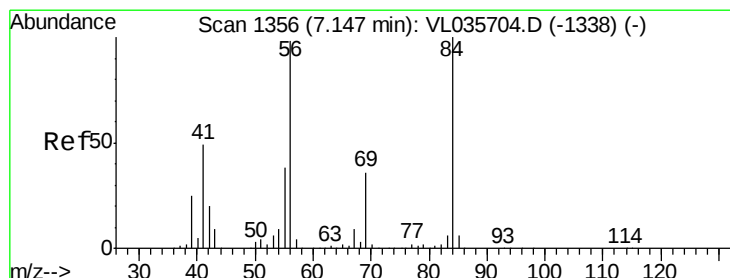
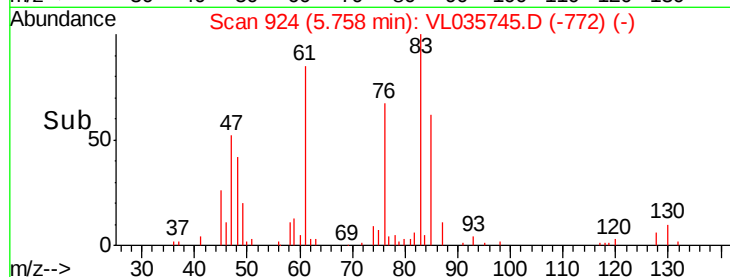
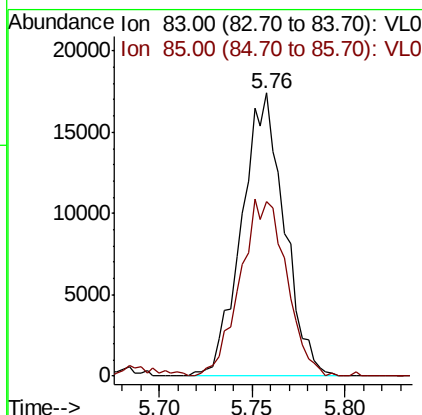
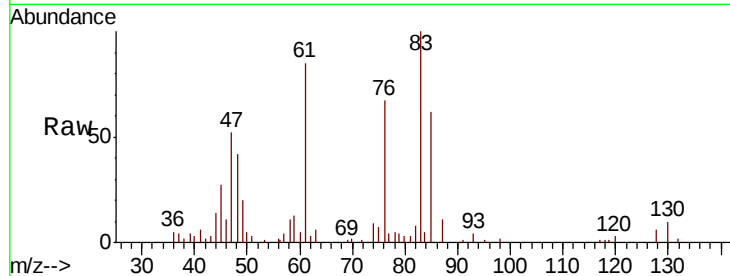




#29
Chloroform
Concen: 0.126 ppbv
RT: 5.76 min Scan# 924
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

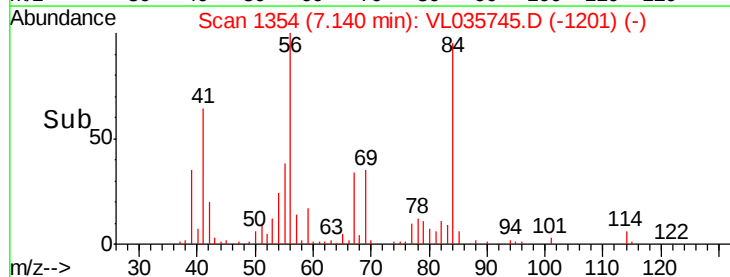
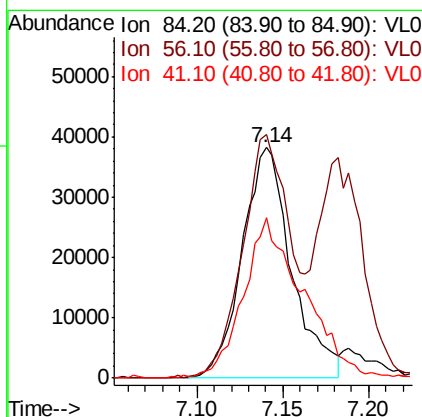
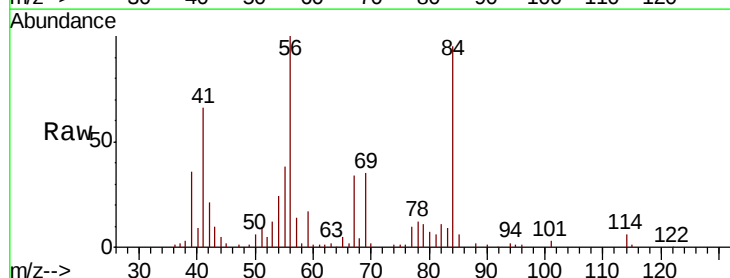
Instrument :
MSVOA_L
ClientSampleId :

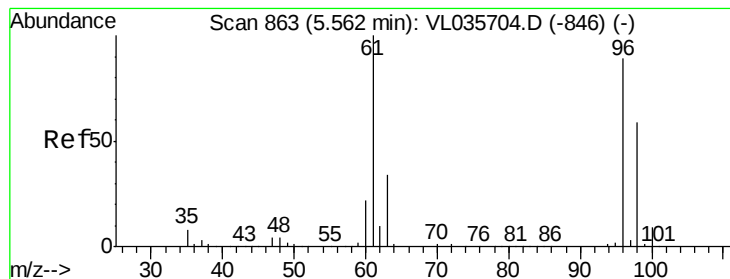
Tot Ion: 83 Resp: 27854
Ion Ratio Lower Upper
83 100
85 61.6 54.0 81.0



#30
Cyclohexane
Concen: 0.711 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Tgt Ion: 84 Resp: 76247
Ion Ratio Lower Upper
84 100
56 106.8 84.6 127.0
41 84.1 41.1 61.7#



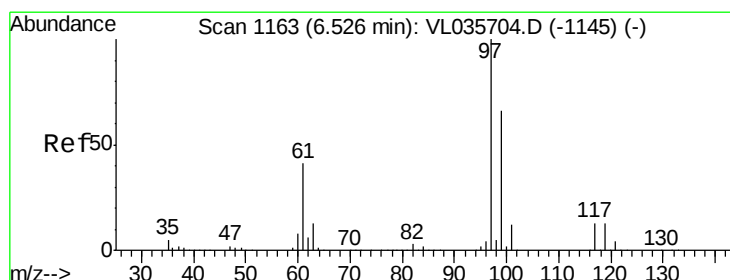
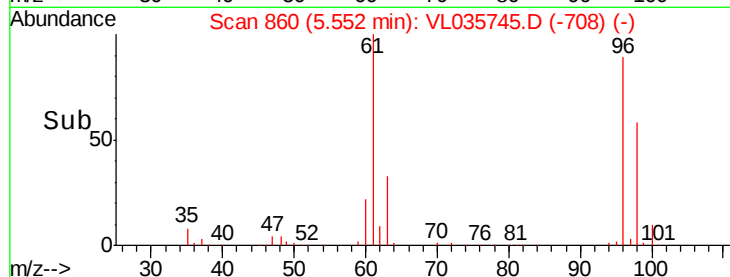
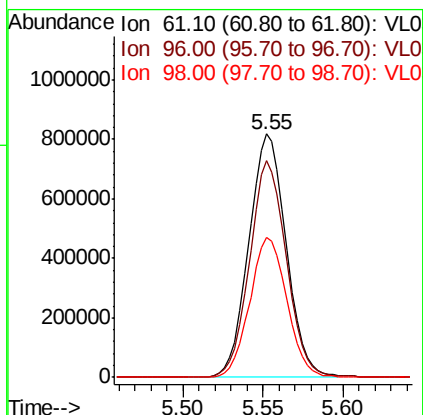
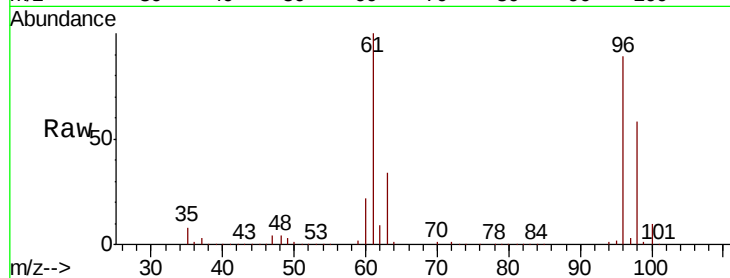


#31

cis-1,2-Dichloroethene
 Concen: 12.511 ppbv
 RT: 5.55 min Scan# 860
 Delta R.T. -0.01 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

Instrument :
 MSVOA_L
 ClientSampled :

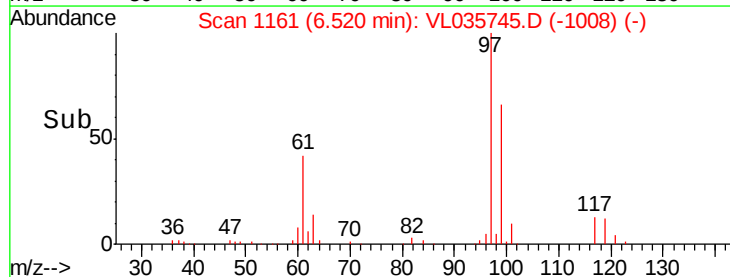
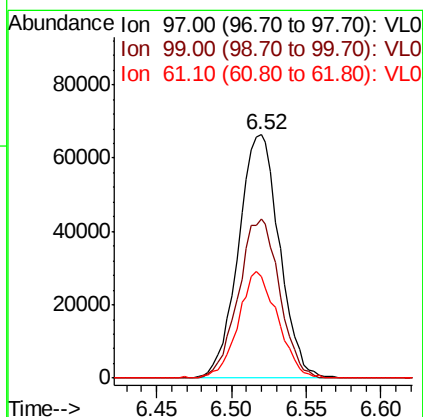
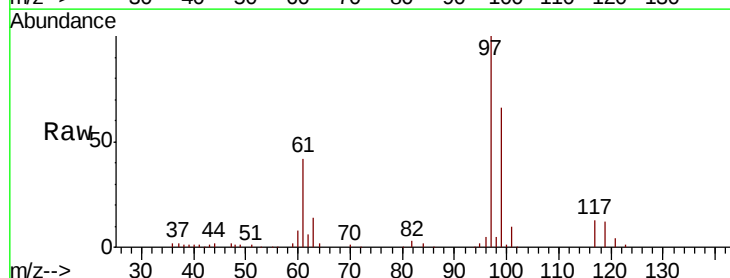
Tot Ion: 61 Resp: 131381
 Ion Ratio Lower Upper
 61 100
 96 88.9 71.4 107.2
 98 57.6 47.4 71.2

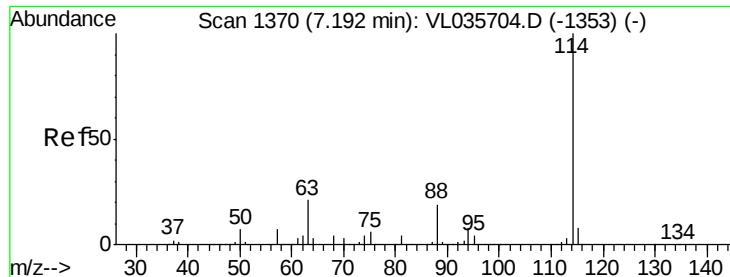


#32

1,1,1-Trichloroethane
 Concen: 0.651 ppbv
 RT: 6.52 min Scan# 1161
 Delta R.T. -0.01 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

Tgt Ion: 97 Resp: 126807
 Ion Ratio Lower Upper
 97 100
 99 65.1 52.7 79.1
 61 42.1 32.7 49.1

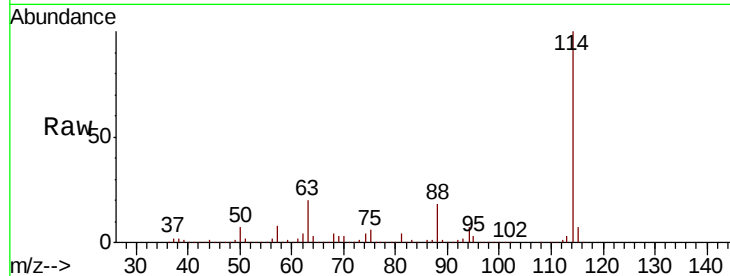




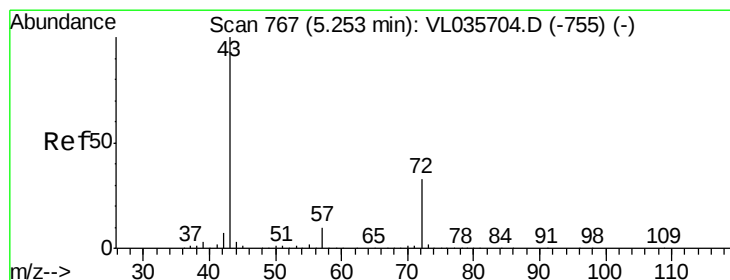
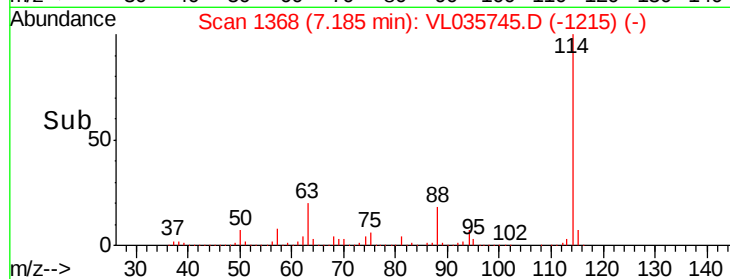
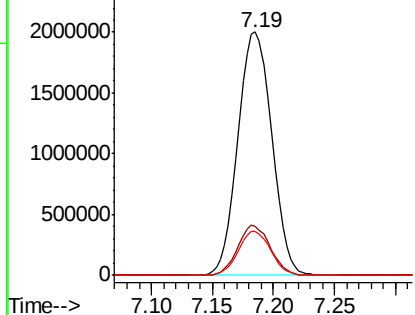
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion:114 Resp: 3853817
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.1 24.1
 88 17.3 14.1 21.1

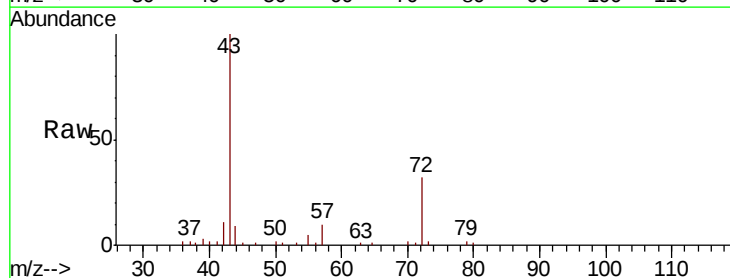


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

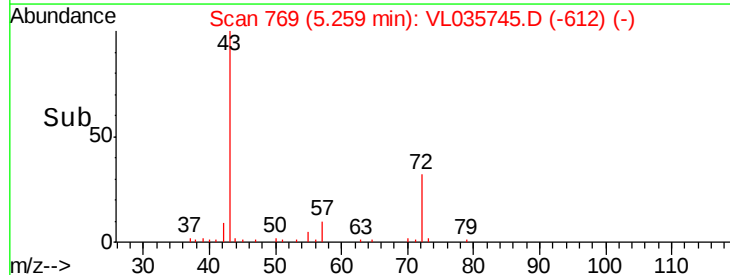
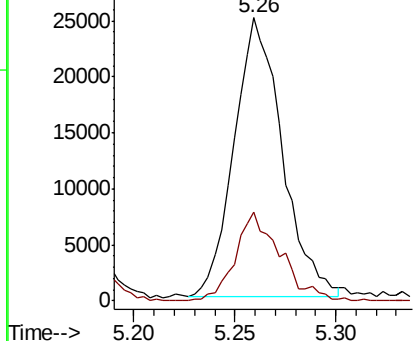


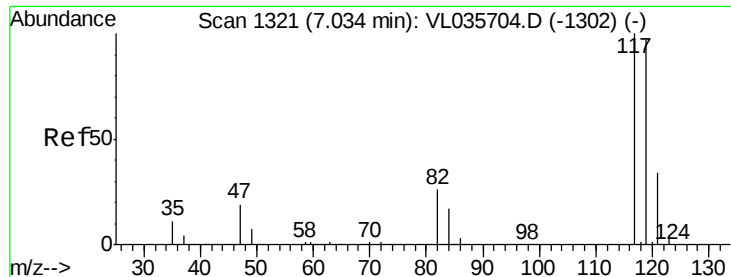
#34
 2-Butanone
 Concen: 0.325 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

Tgt Ion: 43 Resp: 41375
 Ion Ratio Lower Upper
 43 100
 72 30.0 26.1 39.1



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

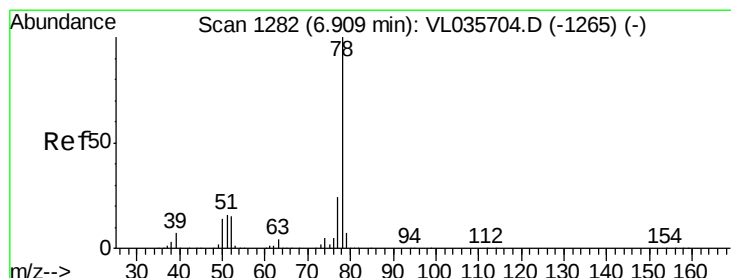
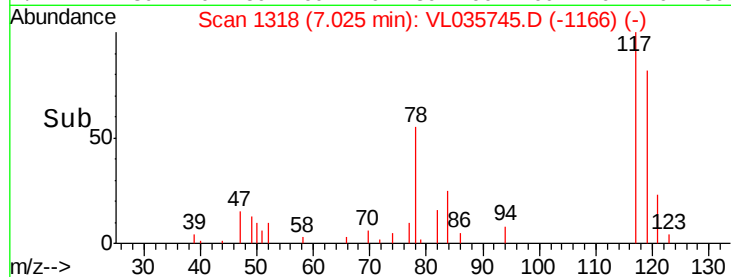
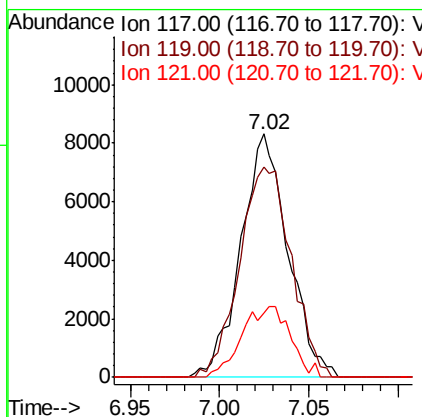
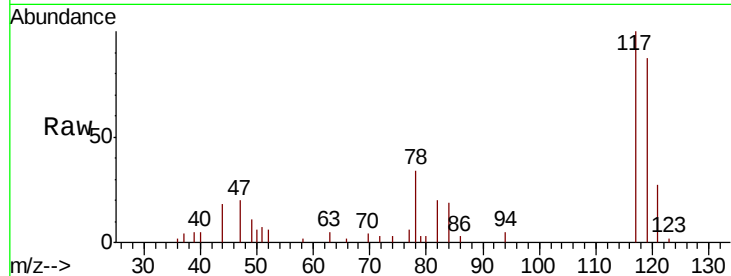




#35
Carbon Tetrachloride
Concen: 0.076 ppbv
RT: 7.02 min Scan# 1318
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

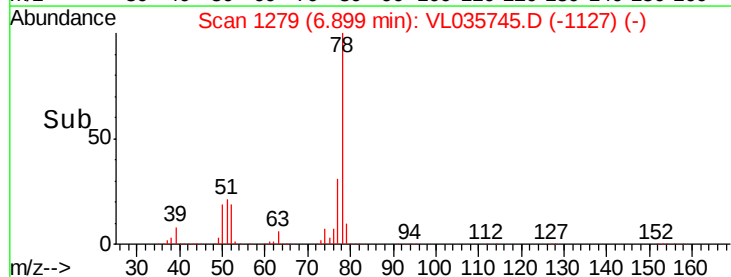
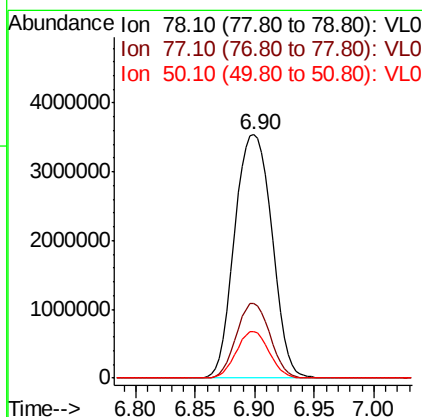
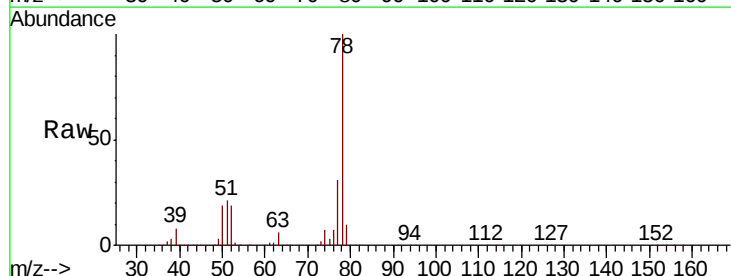
Instrument :
MSVOA_L
ClientSampled :

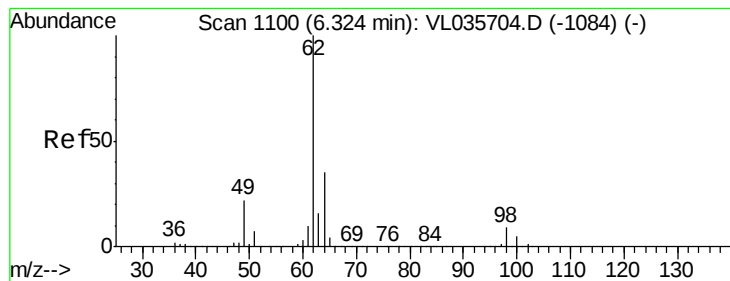
Tot Ion:117 Resp: 15351
Ion Ratio Lower Upper
117 100
119 86.5 77.7 116.5
121 26.6 26.9 40.3#



#36
Benzene
Concen: 30.697 ppbv
RT: 6.90 min Scan# 1279
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Tgt Ion: 78 Resp: 7708555
Ion Ratio Lower Upper
78 100
77 30.9 19.3 28.9#
50 19.3 11.6 17.4#





#37

1,2-Dichloroethane

Concen: 1.938 ppbv

RT: 6.31 min Scan# 1097

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

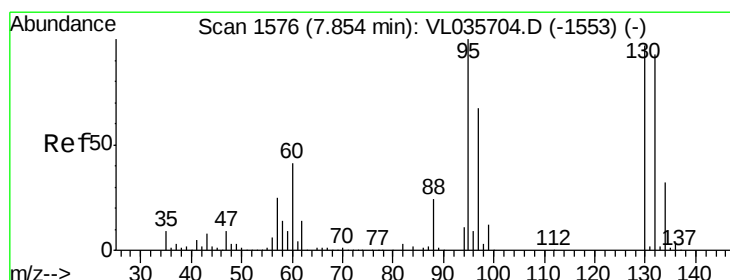
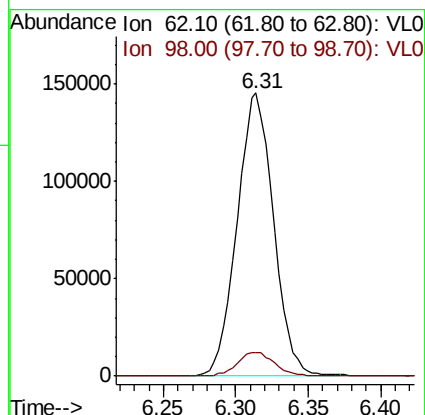
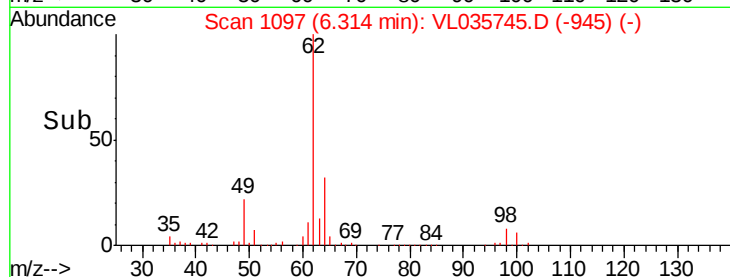
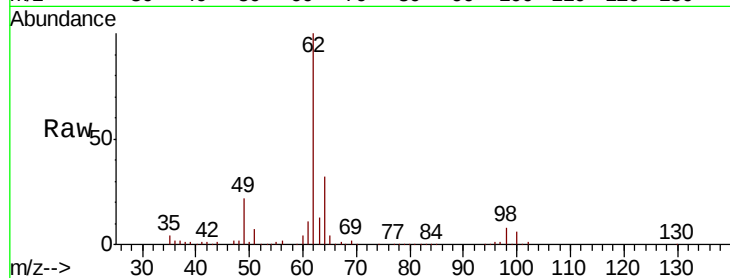
ClientSampleId :

Tot Ion: 62 Resp: 253635

Ion Ratio Lower Upper

62 100

98 8.7 6.9 10.3



#38

Trichloroethene

Concen: 0.128 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Tgt Ion:130 Resp: 16079

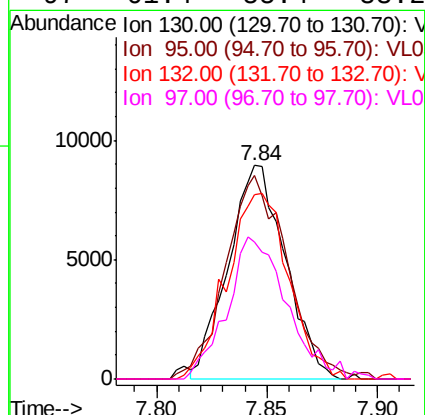
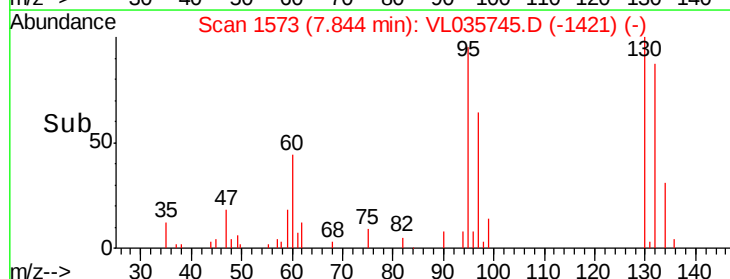
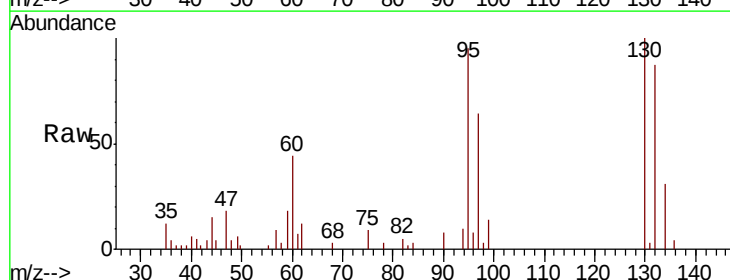
Ion Ratio Lower Upper

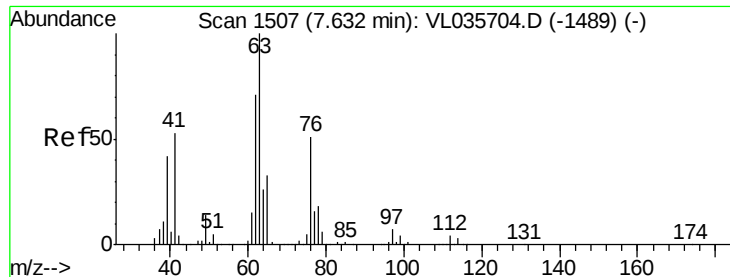
130 100

95 91.0 82.4 123.6

132 82.8 76.8 115.2

97 61.4 55.4 83.2





#39

1,2-Dichloropropane

Concen: 8.329 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.45 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

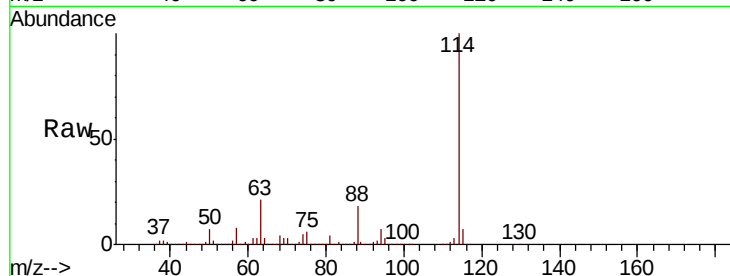
Tot Ion: 63 Resp: 758097

Ion Ratio Lower Upper

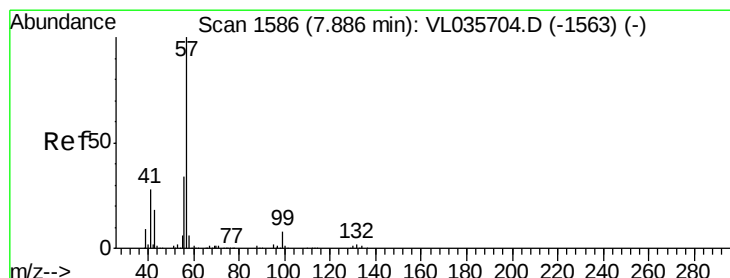
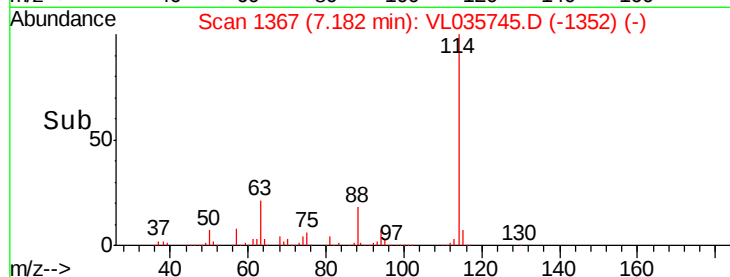
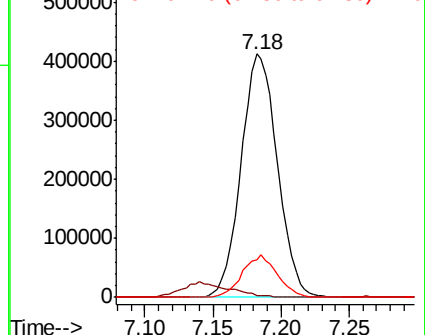
63 100

41 0.7 42.6 63.8#

62 15.2 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



#44

2,2,4-Trimethylpentane

Concen: 0.038 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

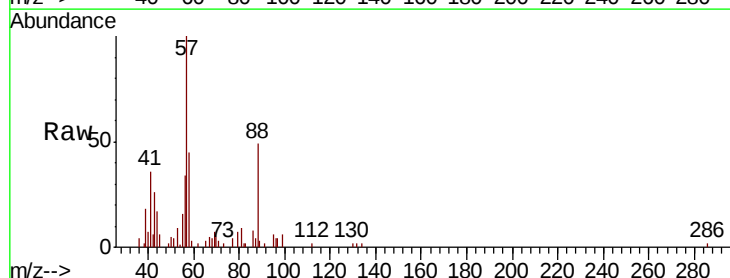
Tgt Ion: 57 Resp: 13541

Ion Ratio Lower Upper

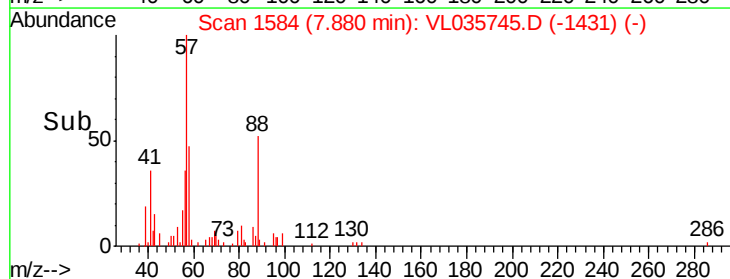
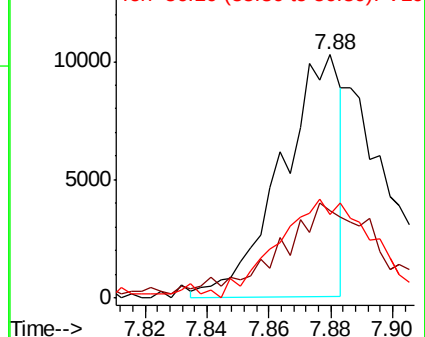
57 100

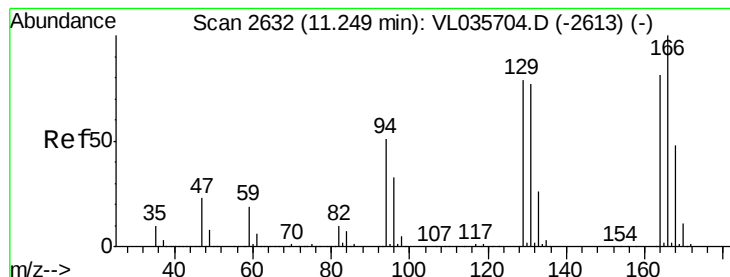
41 78.3 21.2 31.8#

56 74.3 25.8 38.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#52

Tetrachloroethene

Concen: 0.052 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 6252

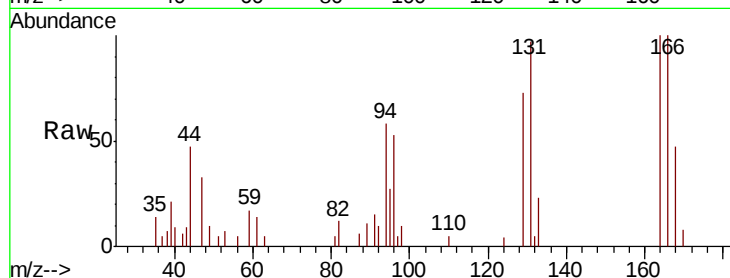
Ion Ratio Lower Upper

164 100

166 100.0 98.7 148.1

129 72.9 78.4 117.6#

131 96.8 76.2 114.2

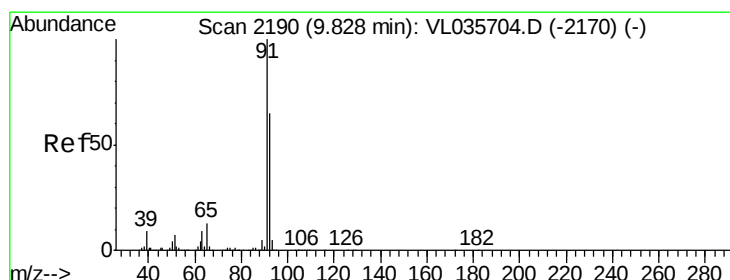
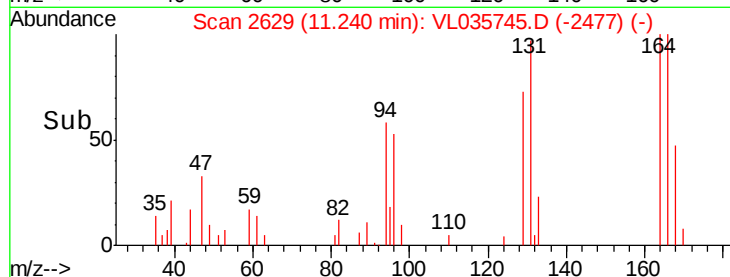
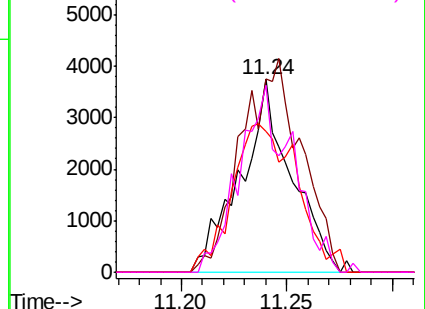


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 54.172 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL035745.D

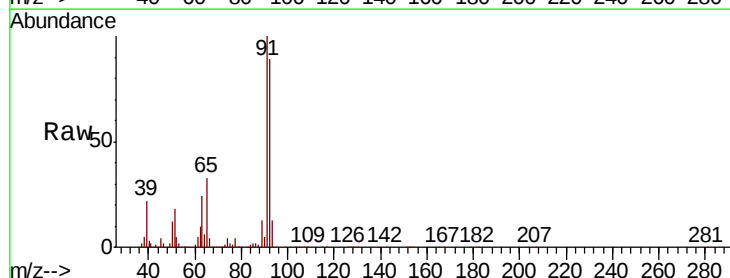
Acq: 8 Oct 2020 14:56

Tgt Ion: 91 Resp:16041084

Ion Ratio Lower Upper

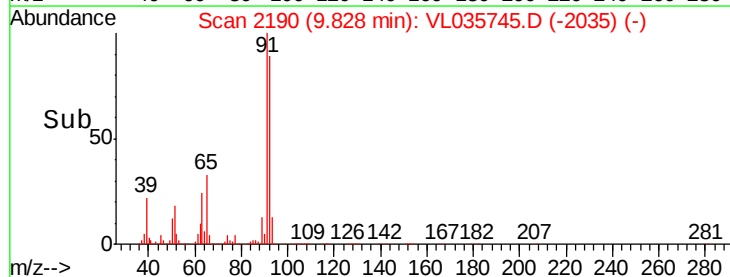
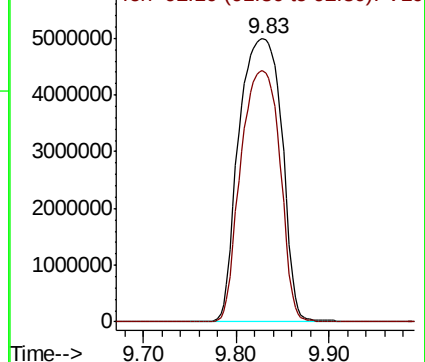
91 100

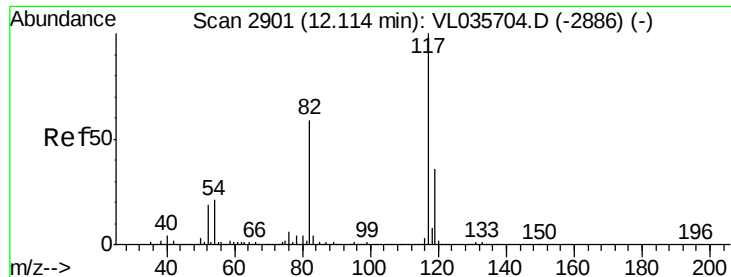
92 81.2 50.0 75.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

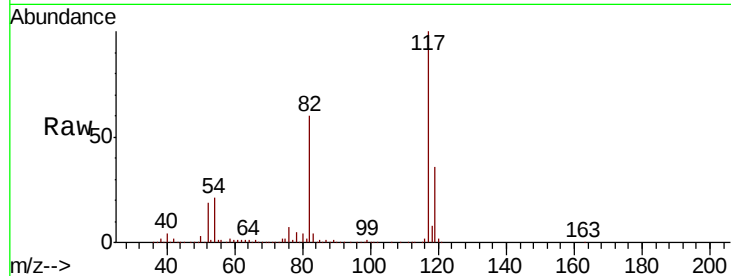




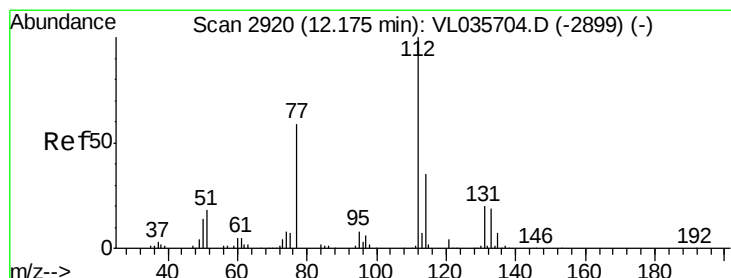
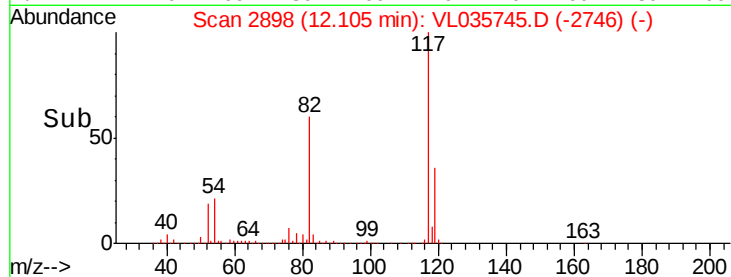
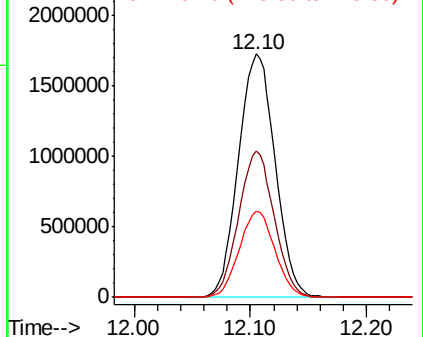
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:117 Resp: 3800691
Ion Ratio Lower Upper
117 100
82 58.3 46.1 69.1
119 34.4 28.0 42.0

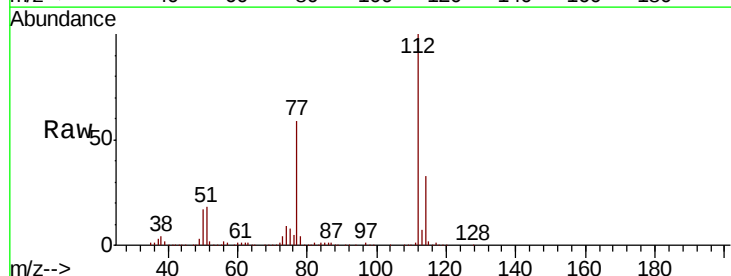


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

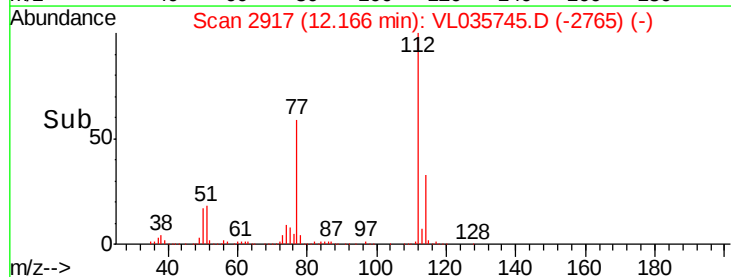
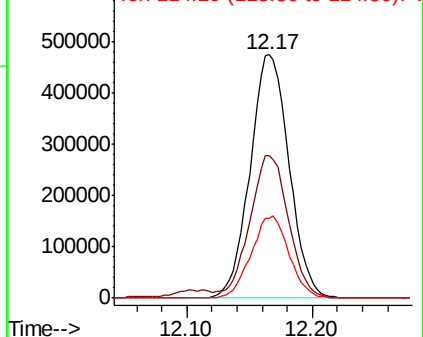


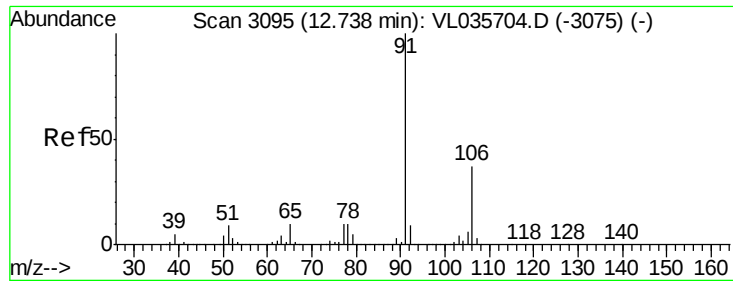
#57
Chlorobenzene
Concen: 3.569 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Tgt Ion:112 Resp: 1024448
Ion Ratio Lower Upper
112 100
77 58.4 48.2 72.2
114 32.9 31.9 39.1



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: 6.198 ppbv

RT: 12.73 min Scan# 3093

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

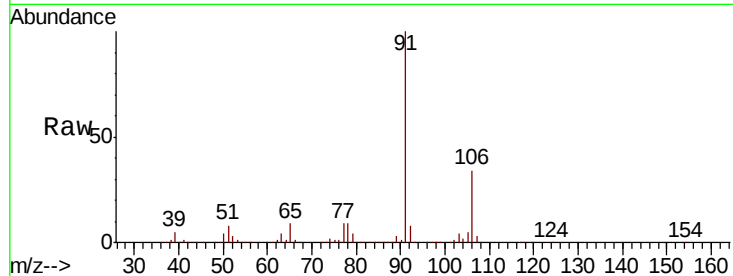
ClientSampleId :

Tot Ion: 91 Resp: 2364266

Ion Ratio Lower Upper

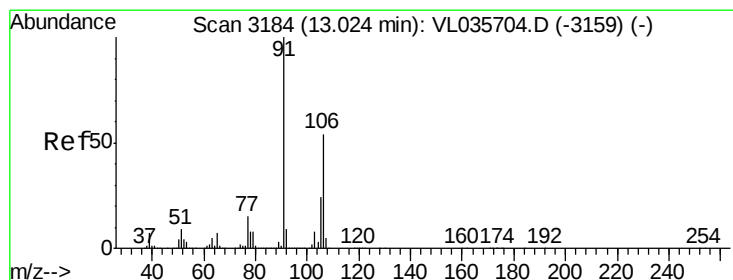
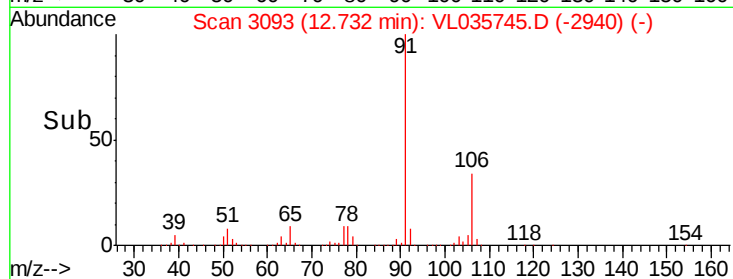
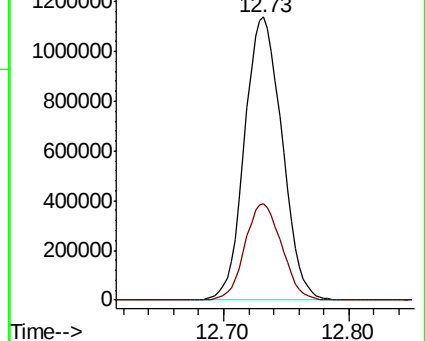
91 100

106 34.2 29.7 44.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 39.352 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.04 min

Lab File: VL035745.D

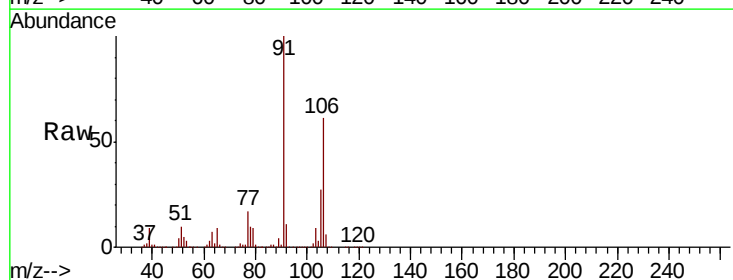
Acq: 8 Oct 2020 14:56

Tgt Ion: 91 Resp: 13109491

Ion Ratio Lower Upper

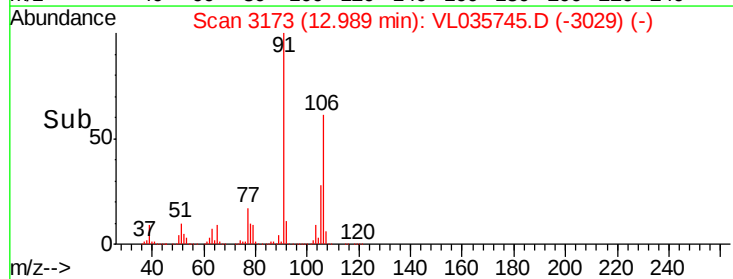
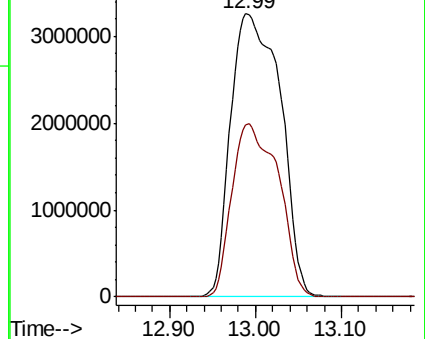
91 100

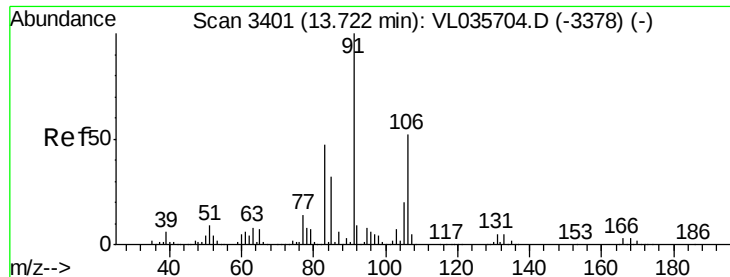
106 57.4 41.4 62.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

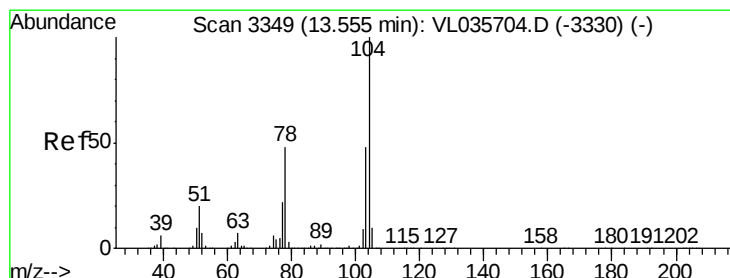
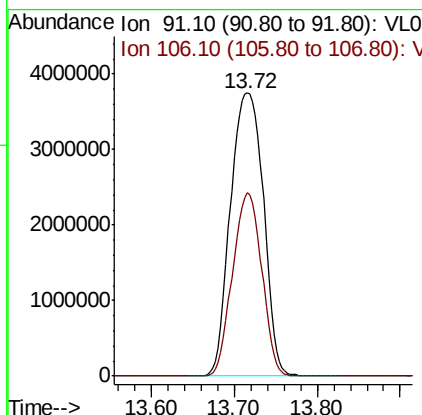
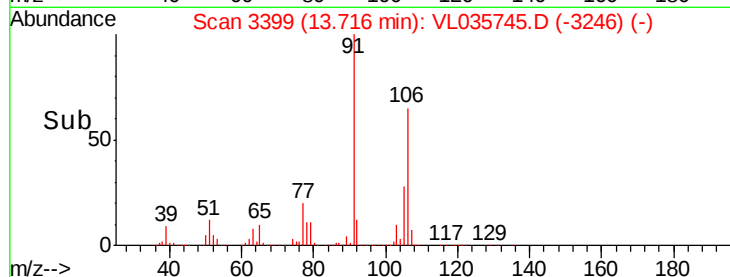
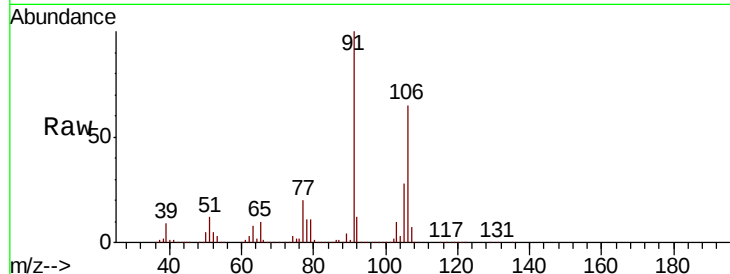




#60
o-Xylene
Concen: 30.748 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

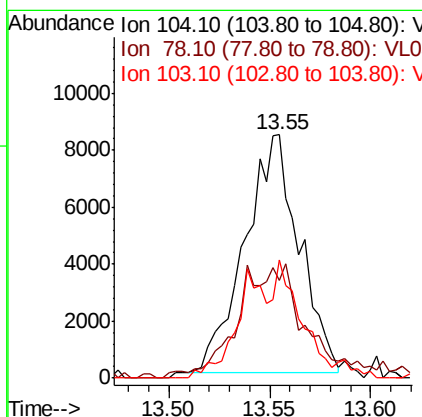
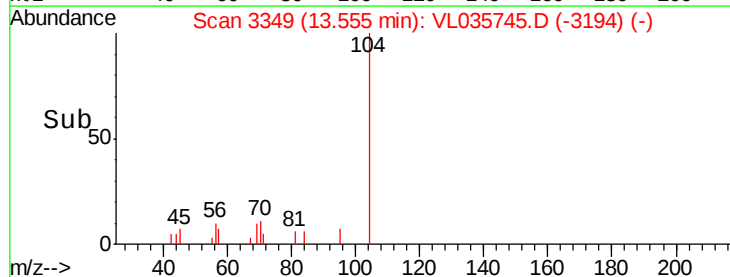
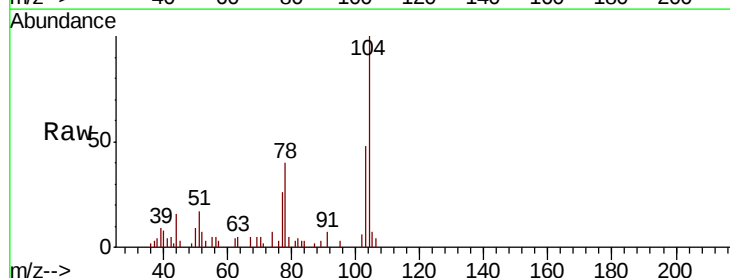
Instrument :
MSVOA_L
ClientSampleId :

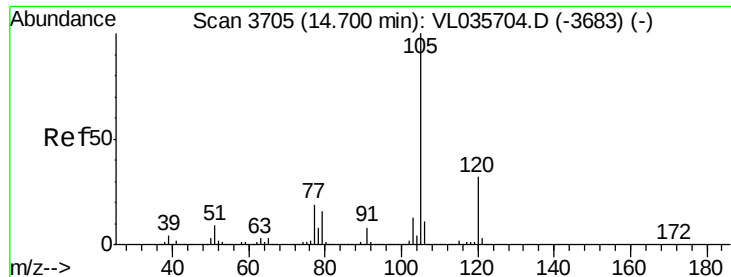
Tot Ion: 91 Resp: 10361781
Ion Ratio Lower Upper
91 100
106 57.6 25.0 75.0



#61
Styrene
Concen: 0.067 ppbv
RT: 13.55 min Scan# 3349
Delta R.T. -0.00 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Tgt Ion: 104 Resp: 15647
Ion Ratio Lower Upper
104 100
78 0.0 37.2 55.8#
103 0.0 38.2 57.2#





#62

Isopropylbenzene

Concen: 4.762 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

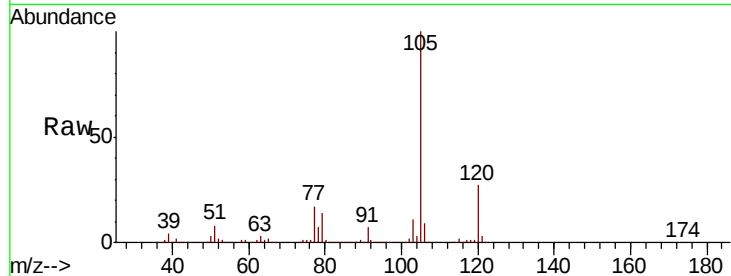
ClientSampleId :

Tot Ion:105 Resp: 2489247

Ion Ratio Lower Upper

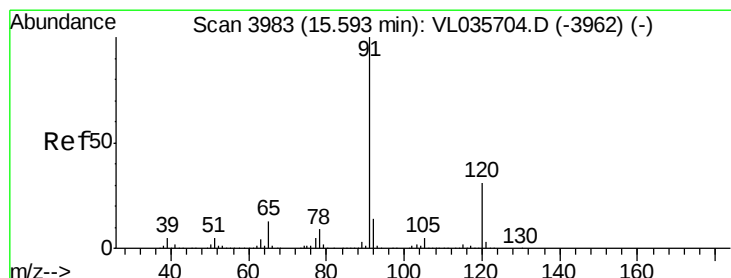
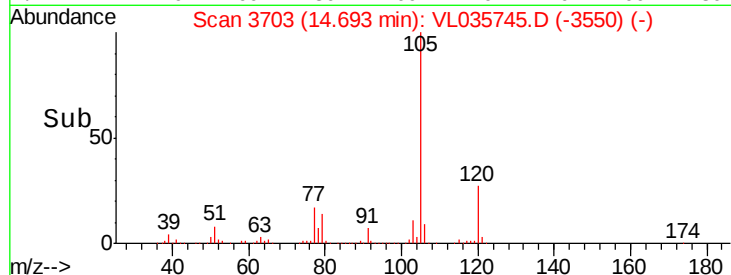
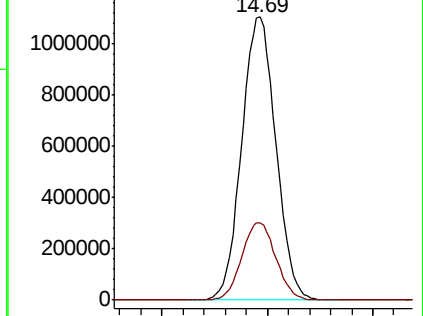
105 100

120 27.3 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 6.911 ppbv

RT: 15.59 min Scan# 3981

Delta R.T. -0.01 min

Lab File: VL035745.D

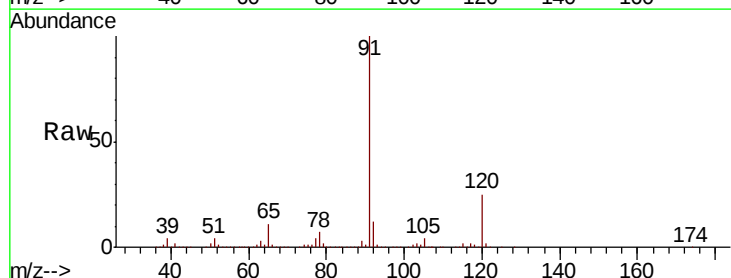
Acq: 8 Oct 2020 14:56

Tgt Ion:120 Resp: 1057253

Ion Ratio Lower Upper

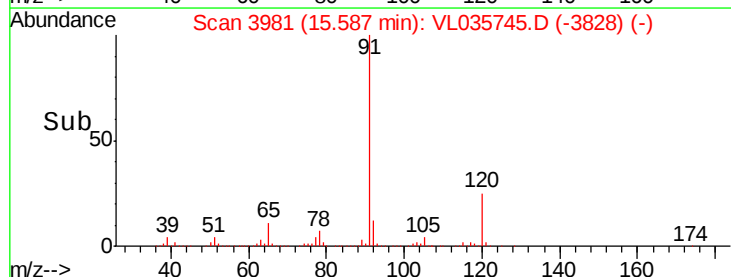
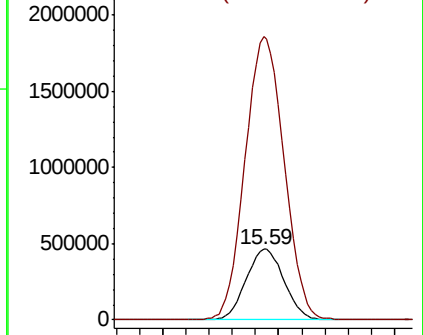
120 100

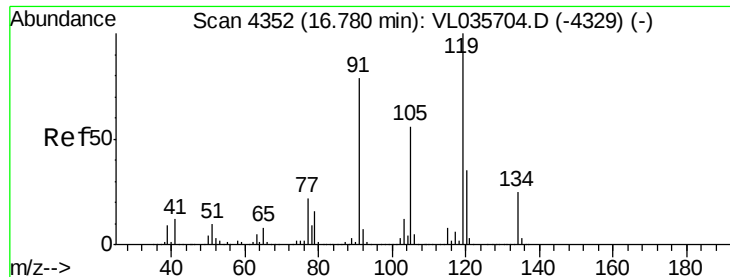
91 411.3 300.4 450.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 7.438 ppbv

RT: 16.80 min Scan# 4359

Delta R.T. 0.02 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

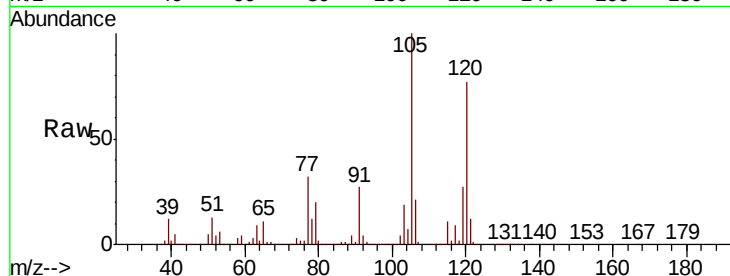
Tot Ion:119 Resp: 3534860

Ion Ratio Lower Upper

119 100

91 102.8 62.4 93.6#

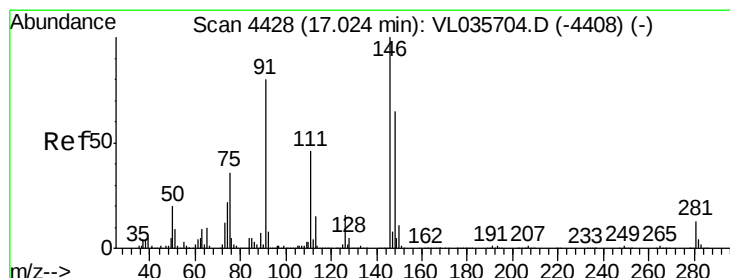
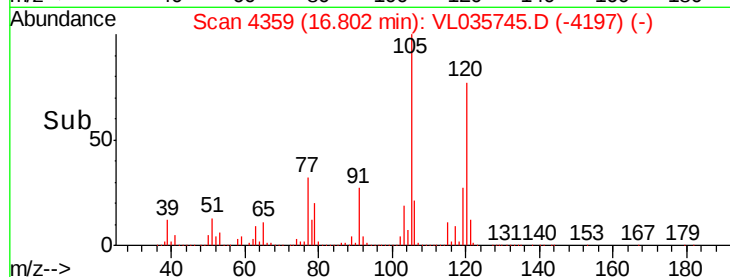
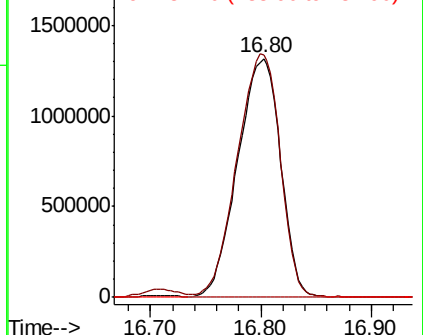
134 0.3 18.2 27.2#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 25.032 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.23 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

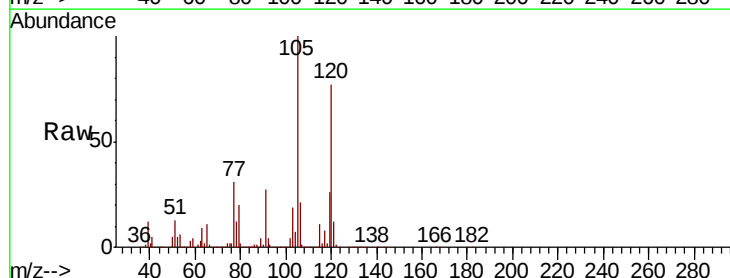
Tgt Ion: 91 Resp: 3604156

Ion Ratio Lower Upper

91 100

126 0.0 15.3 22.9#

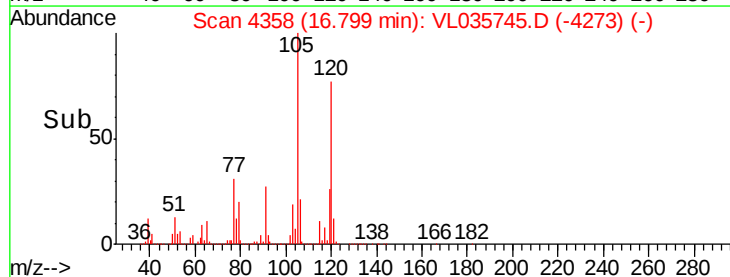
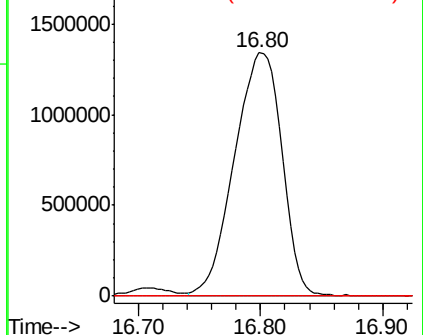
128 0.0 5.0 7.4#

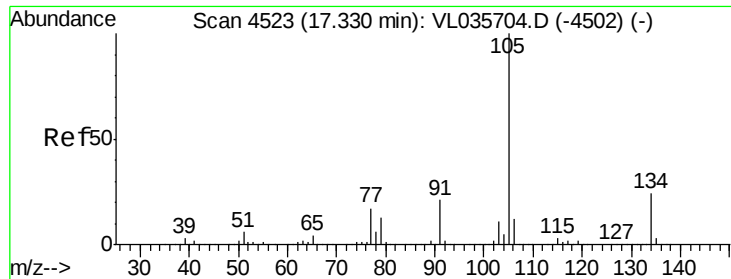


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

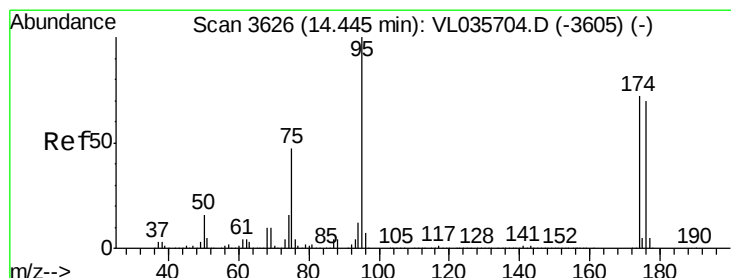
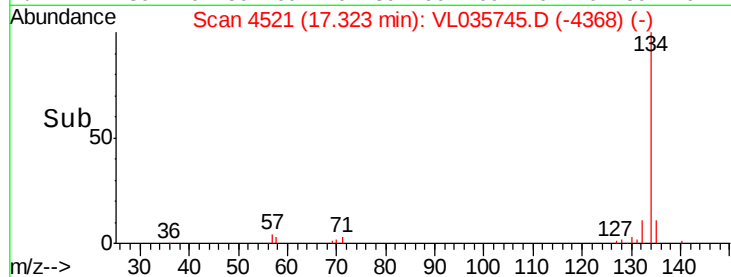
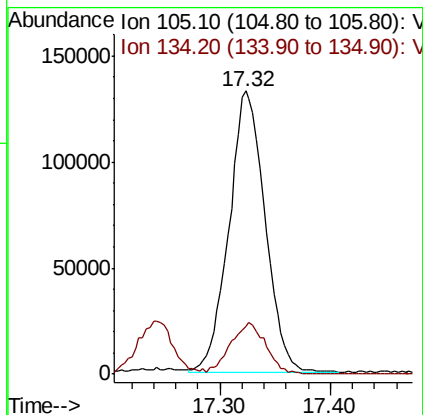
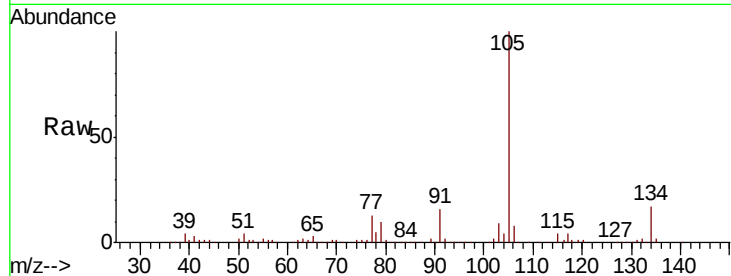




#67
 sec-Butylbenzene
 Concen: 0.457 ppbv
 RT: 17.32 min Scan# 4521
 Delta R.T. -0.01 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

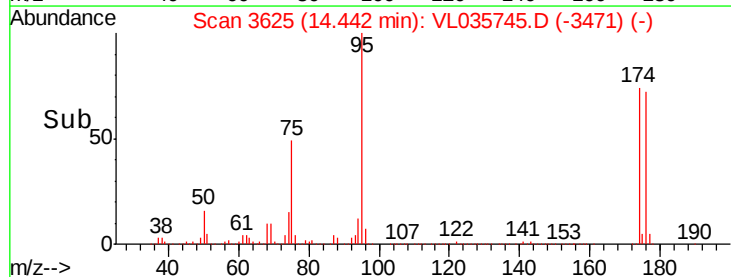
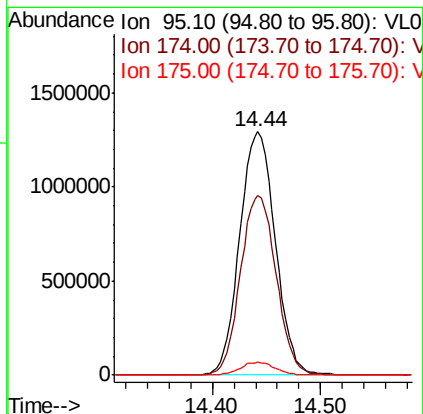
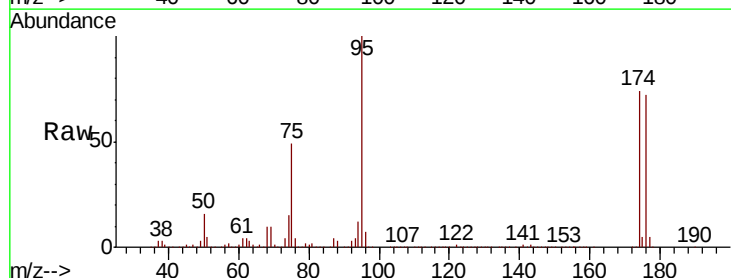
Instrument :
 MSVOA_L
 ClientSampled :

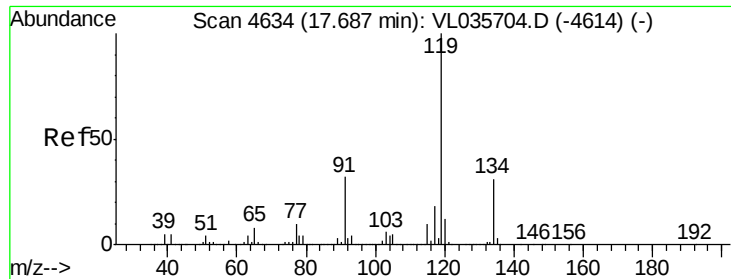
Tot Ion:105 Resp: 300011
 Ion Ratio Lower Upper
 105 100
 134 18.1 17.6 26.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.448 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

Tgt Ion: 95 Resp: 2975532
 Ion Ratio Lower Upper
 95 100
 174 74.3 59.6 89.4
 175 5.3 4.2 6.4

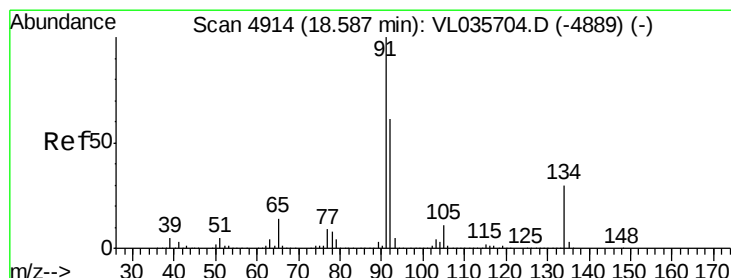
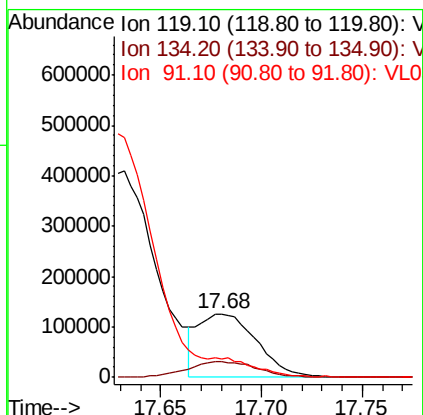
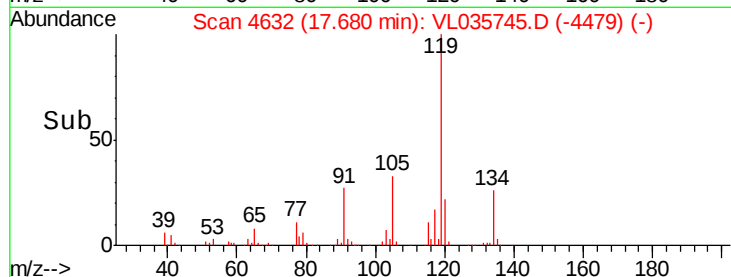
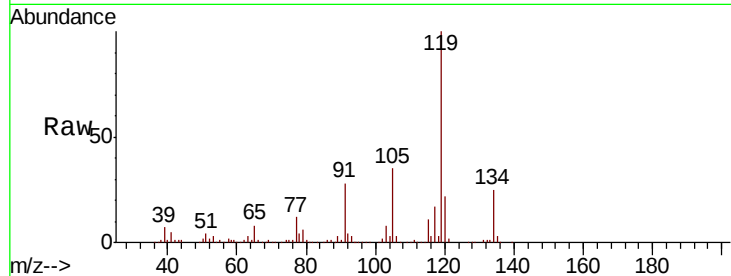




#69
p-Isopropyltoluene
Concen: 0.468 ppbv
RT: 17.68 min Scan# 4632
Delta R.T. -0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

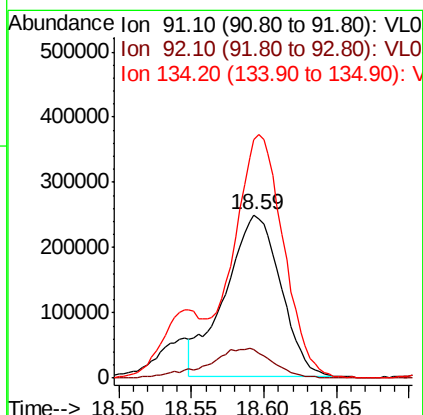
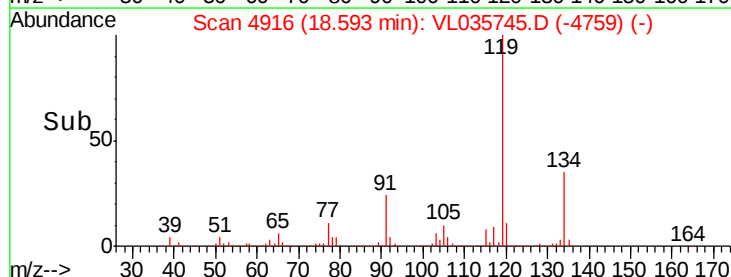
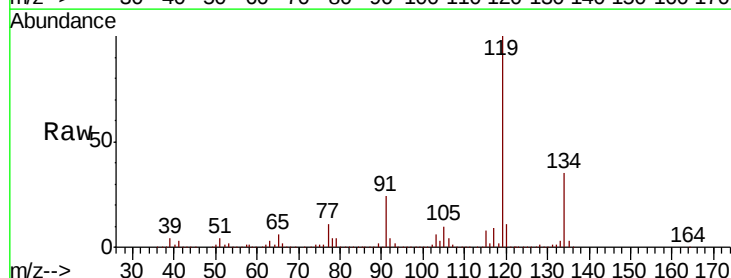
Instrument :
MSVOA_L
ClientSampleId :

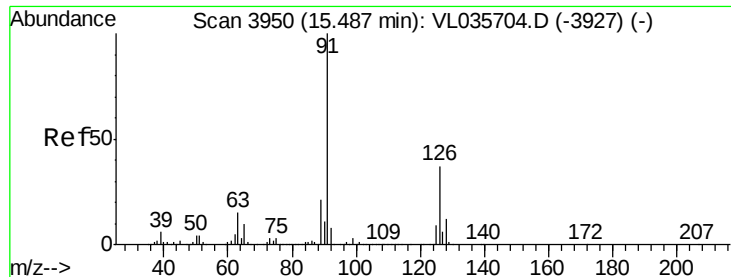
Tot Ion	Ratio	Lower	Upper
119	100		
134	30.4	23.9	35.9
91	0.0	23.8	35.6#



#70
n-Butylbenzene
Concen: 1.202 ppbv
RT: 18.59 min Scan# 4916
Delta R.T. 0.01 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	21.6	47.0	70.4#
134	167.2	21.9	32.9#

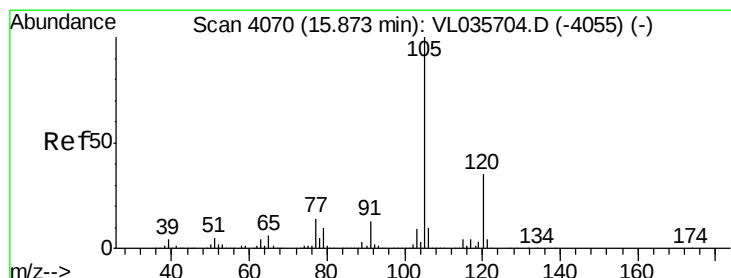
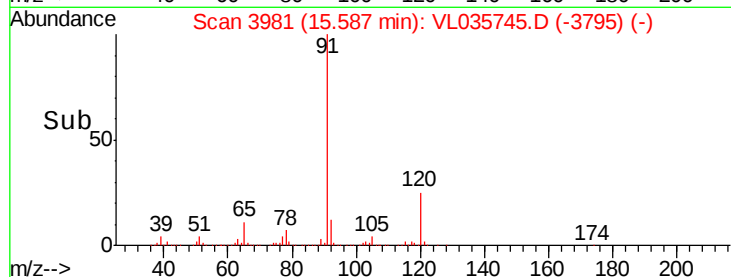
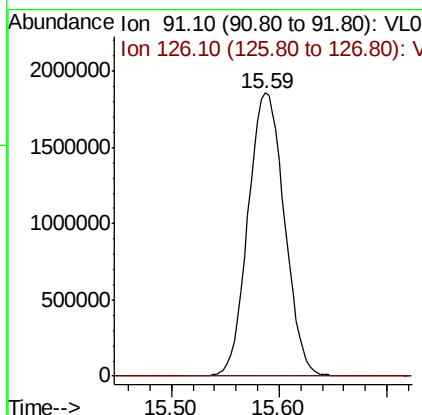
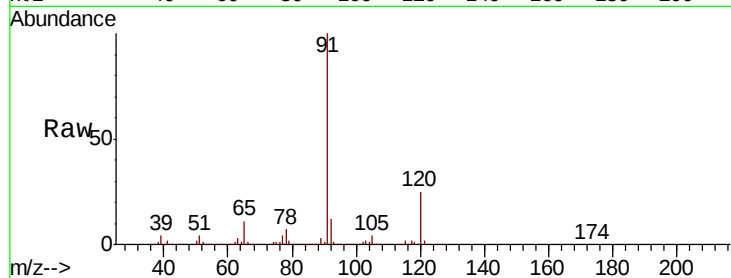




#71
 2-Chlorotoluene
 Concen: 11.382 ppbv
 RT: 15.59 min Scan# 3981
 Delta R.T. 0.10 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

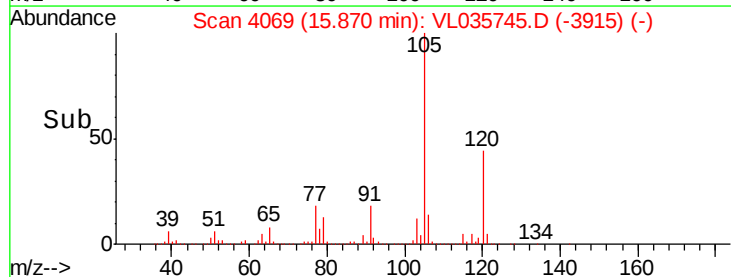
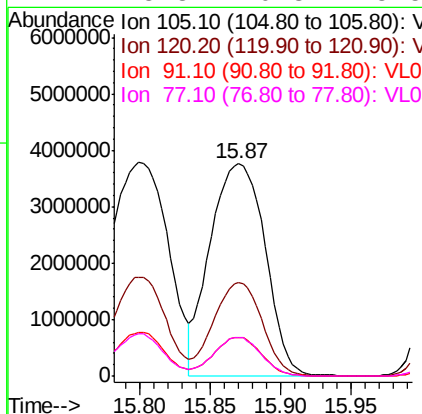
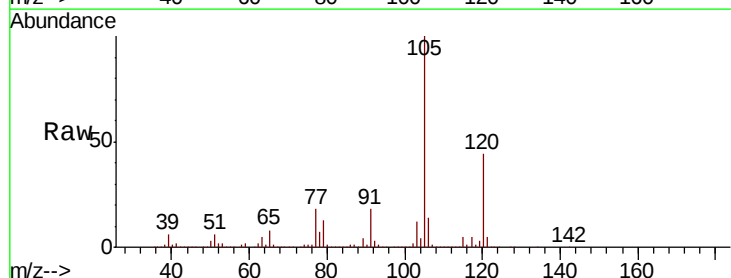
Instrument :
 MSVOA_L
 ClientSampleId :

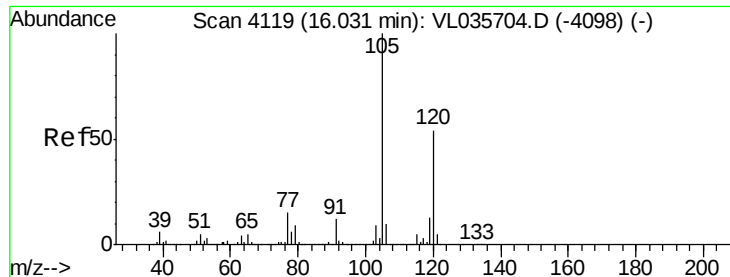
Tot Ion: 91 Resp: 4339628
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.4 57.4#



#72
 4-Ethyltoluene
 Concen: 25.622 ppbv
 RT: 15.87 min Scan# 4069
 Delta R.T. -0.00 min
 Lab File: VL035745.D
 Acq: 8 Oct 2020 14:56

Tgt Ion:105 Resp:10228321
 Ion Ratio Lower Upper
 105 100
 120 39.4 26.5 39.7
 91 15.8 10.2 15.2#
 77 15.8 10.3 15.5#



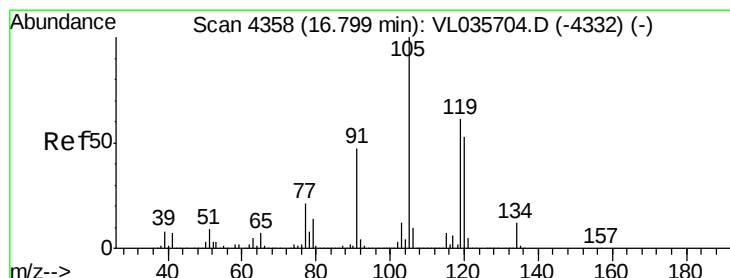
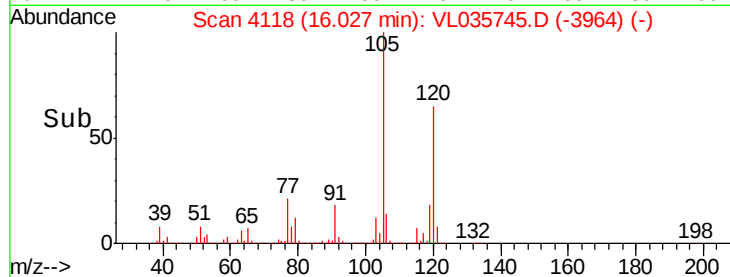
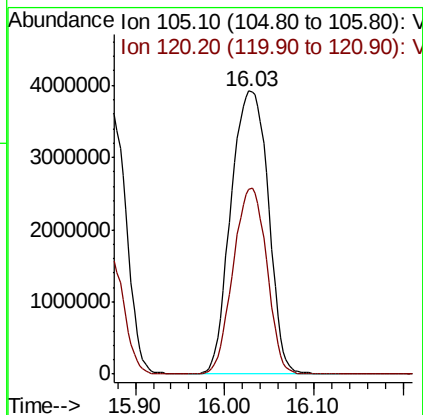
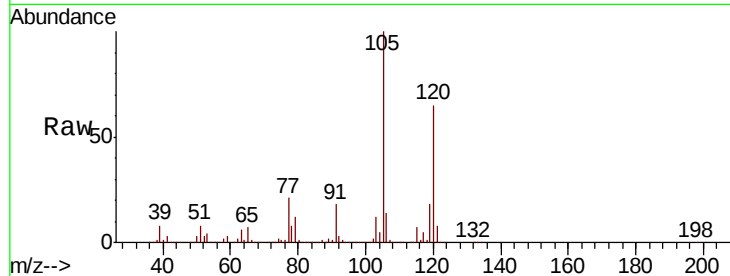


#73

1,3,5-Trimethylbenzene
Concen: 30.033 ppbv
RT: 16.03 min Scan# 4118
Delta R.T. -0.00 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Instrument :
MSVOA_L
ClientSampled :

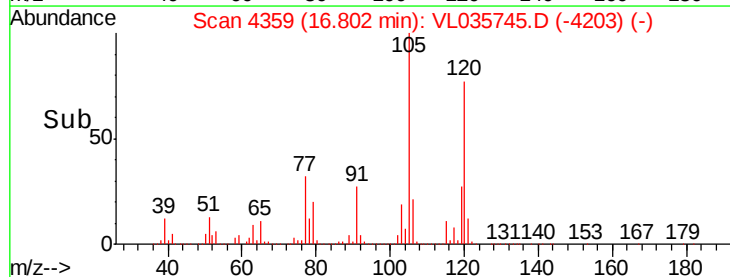
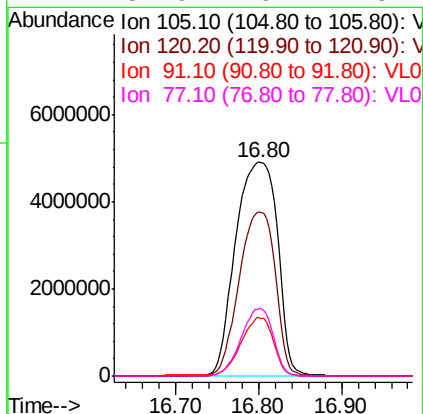
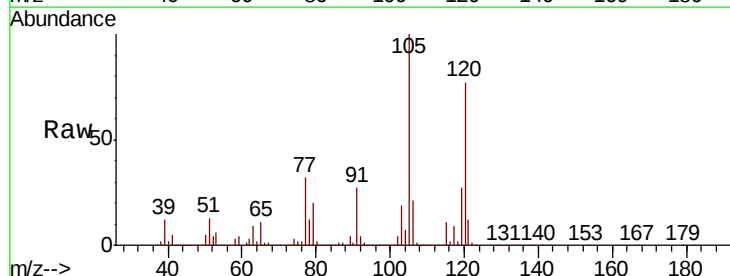
Tot Ion:105 Resp:11329975
Ion Ratio Lower Upper
105 100
120 65.2 43.0 64.4#

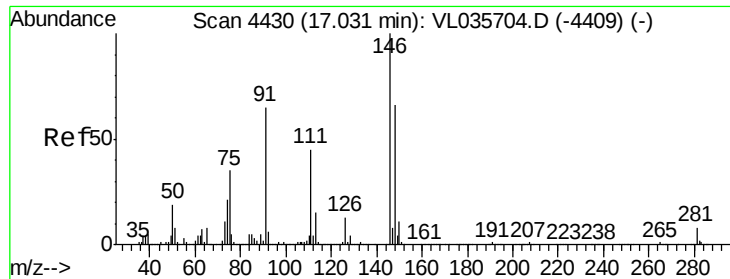


#74

1,2,4-Trimethylbenzene
Concen: 40.634 ppbv
RT: 16.80 min Scan# 4359
Delta R.T. 0.00 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Tgt Ion:105 Resp:17279878
Ion Ratio Lower Upper
105 100
120 76.9 42.5 63.7#
91 27.2 37.7 56.5#
77 31.9 16.7 25.1#





#75

1,3-Dichlorobenzene

Concen: 0.045 ppbv

RT: 17.02 min Scan# 4428

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

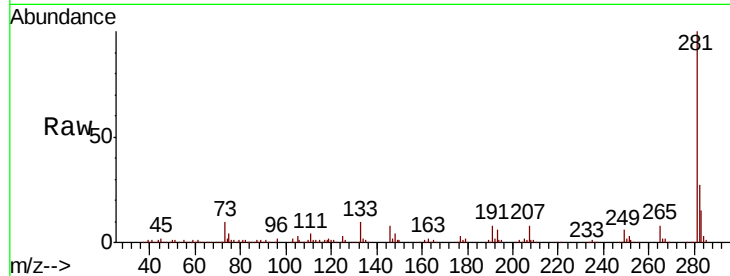
Tot Ion:146 Resp: 12994

Ion Ratio Lower Upper

146 100

111 121.7 22.4 67.0#

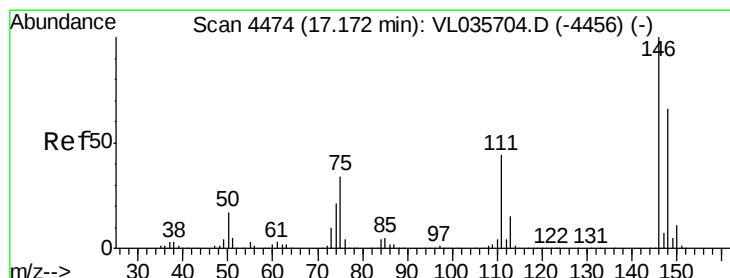
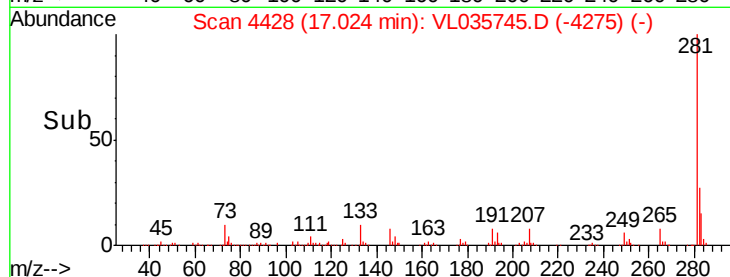
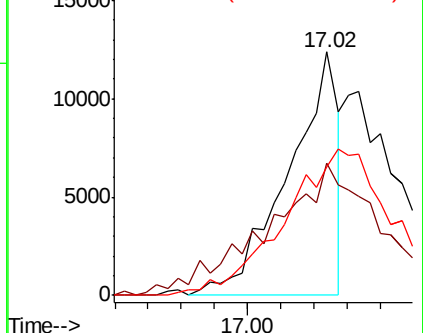
148 127.1 33.0 99.0#



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: 0.645 ppbv

RT: 17.17 min Scan# 4474

Delta R.T. -0.00 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

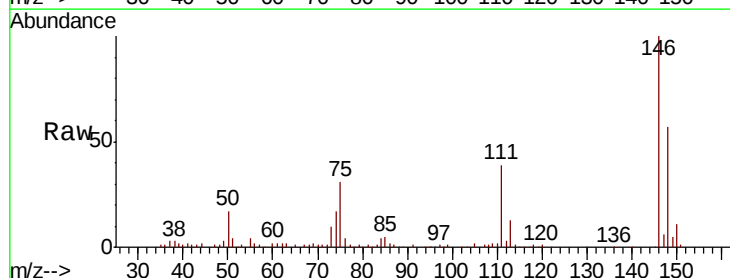
Tgt Ion:146 Resp: 178985

Ion Ratio Lower Upper

146 100

111 41.4 21.4 64.3

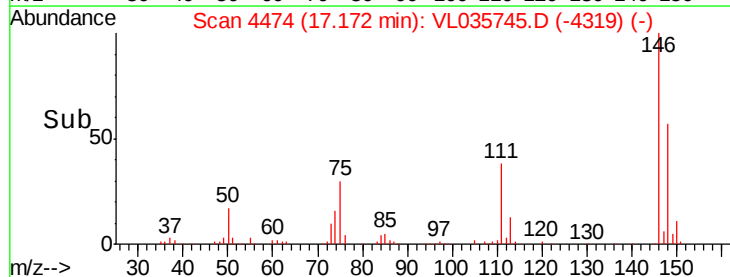
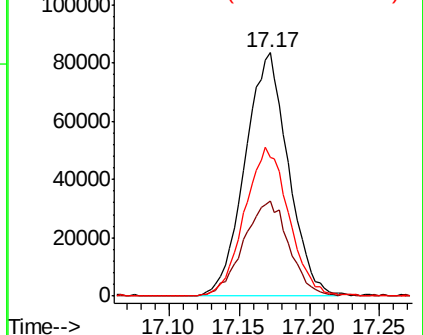
148 62.6 32.6 98.0

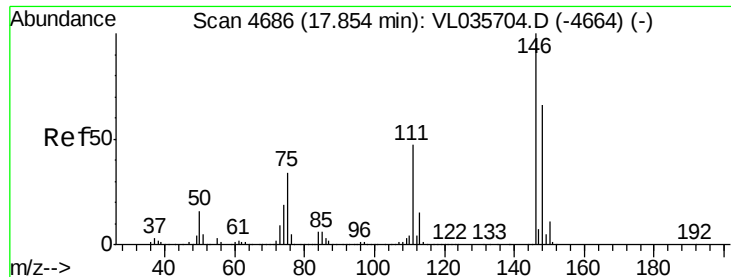


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.710 ppbv

RT: 17.85 min Scan# 4685

Delta R.T. -0.00 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampled :

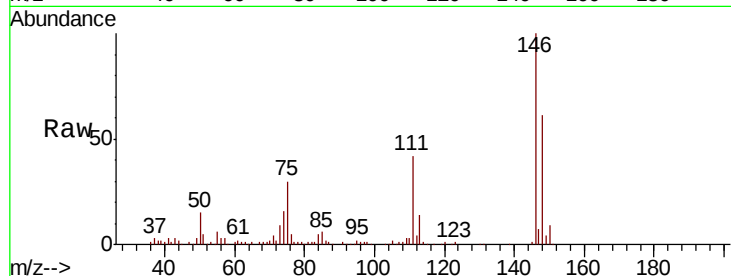
Tot Ion:146 Resp: 194730

Ion Ratio Lower Upper

146 100

111 44.8 22.9 68.5

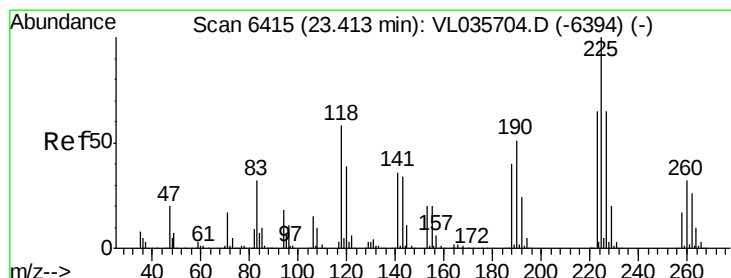
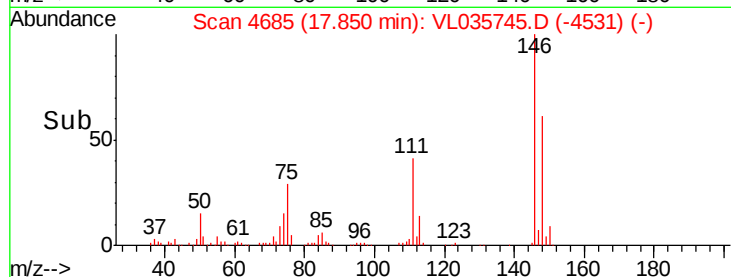
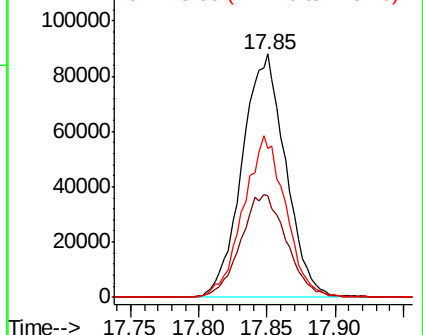
148 64.6 32.6 98.0



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



#78

Hexachloro-1,3-Butadiene

Concen: 0.189 ppbv

RT: 23.41 min Scan# 6413

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

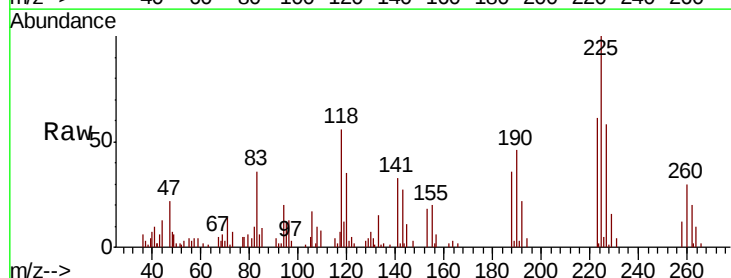
Tgt Ion:225 Resp: 28564

Ion Ratio Lower Upper

225 100

223 71.6 51.3 76.9

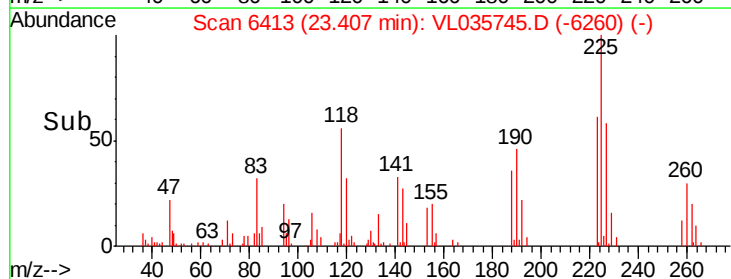
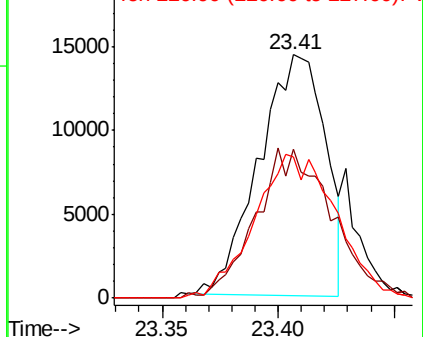
227 73.2 51.6 77.4

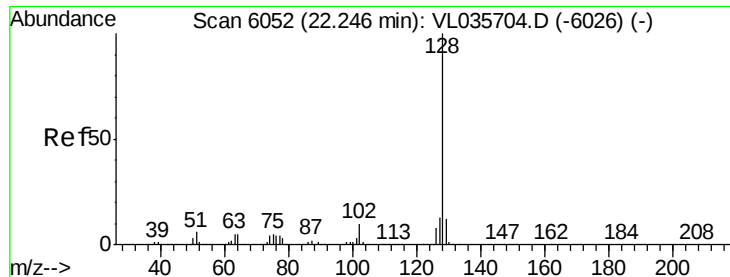


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

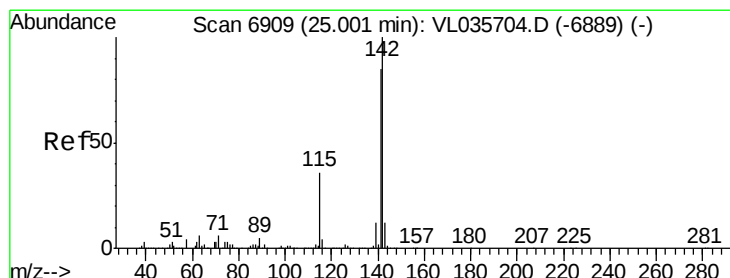
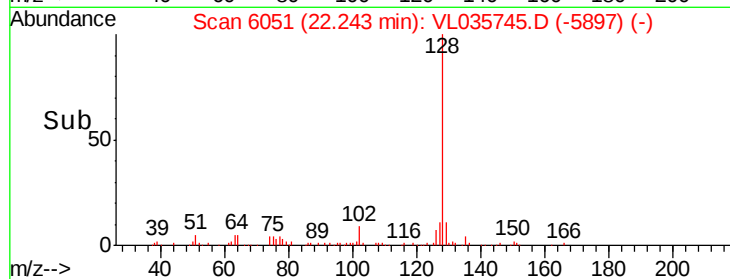
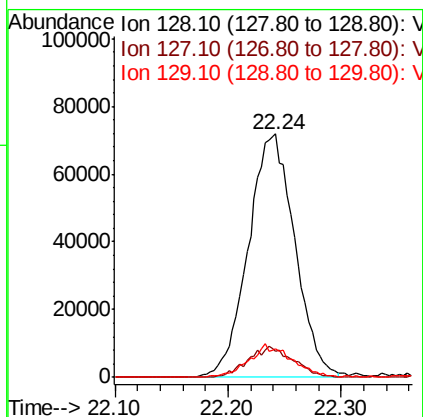
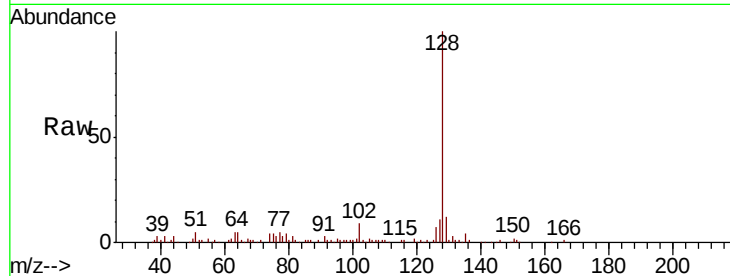




#79
Naphthalene
Concen: 0.505 ppbv
RT: 22.24 min Scan# 6051
Delta R.T. -0.00 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

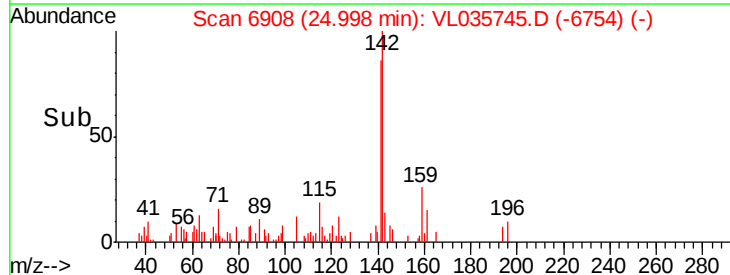
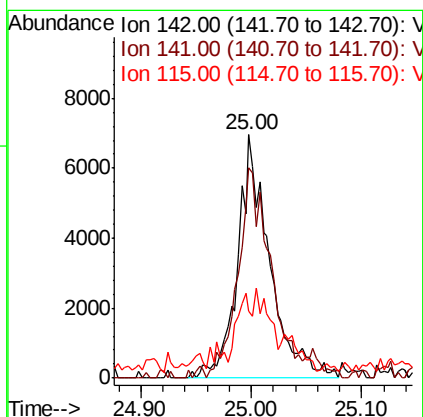
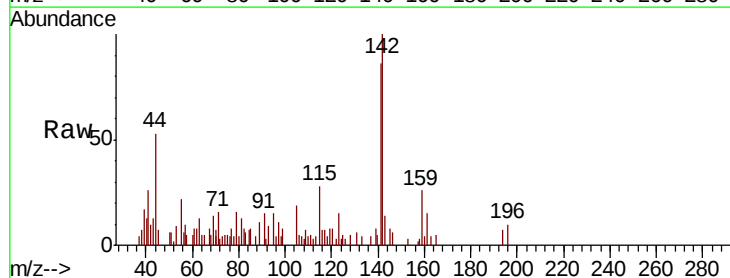
Instrument :
MSVOA_L
ClientSampled :

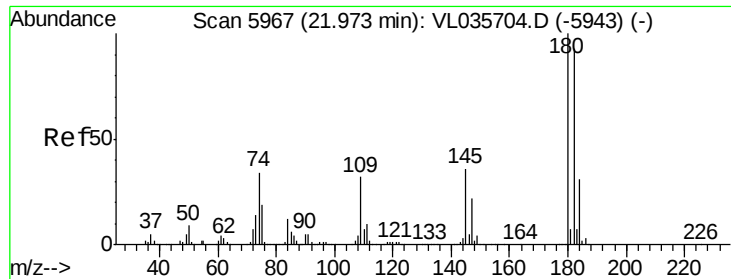
Tot Ion	Ratio	Lower	Upper
128	100		
127	10.9	10.6	15.8
129	11.5	9.4	14.0



#80
Naphthalene, 2-methyl-
Concen: 0.146 ppbv
RT: 25.00 min Scan# 6908
Delta R.T. -0.00 min
Lab File: VL035745.D
Acq: 8 Oct 2020 14:56

Tgt Ion	Ratio	Lower	Upper
142	100		
141	95.8	68.2	102.4
115	55.2	27.8	41.6#





#81

1,2,4-Trichlorobenzene

Concen: 0.035 ppbv

RT: 21.96 min Scan# 5963

Delta R.T. -0.01 min

Lab File: VL035745.D

Acq: 8 Oct 2020 14:56

Instrument :

MSVOA_L

ClientSampleId :

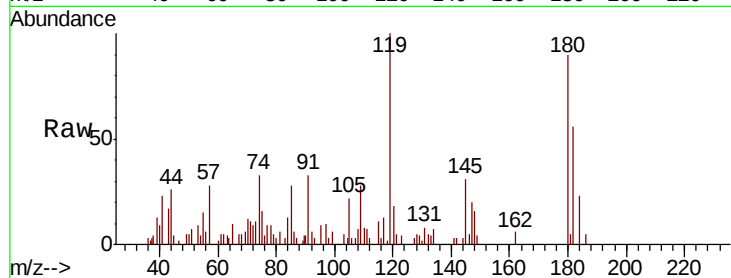
Tot Ion:180 Resp: 7329

Ion Ratio Lower Upper

180 100

182 210.5 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

