

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035570.D
 Acq On : 9 Sep 2020 00:27
 Operator : SY/AP
 Sample : L3898-08
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7

Quant Time: Sep 09 02:39:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1051912	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	4383549	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.09	117	4380083	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3328355	10.70	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.03	85	80871	0.444	ppbv 97
3) Chlorodifluoromethane	2.97	51	509674	4.381	ppbv # 77
4) Chloromethane	3.12	50	35497	0.570	ppbv 98
9) Propene	3.00	41	225679	5.032	ppbv # 81
10) Heptane	8.11	43	87426	0.726	ppbv # 18
11) Trichlorofluoromethane	3.93	101	2690657	10.121	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.48	101	14521	0.072	ppbv 91
13) Ethanol	3.61	45	1628843	146.473	ppbv 97
15) Acetone	3.83	43	9092023	78.369	ppbv # 70
16) 1,3-Butadiene	3.29	39	76132	1.763	ppbv # 31
17) tert-Butyl alcohol	4.30	59	1010336	7.154	ppbv 98
19) Isopropyl Alcohol	3.98	45	693870	10.025	ppbv # 93
20) Methylene Chloride	4.34	84	385738	4.464	ppbv 98
21) Allyl Chloride	4.35	41	6834	0.126	ppbv # 13
23) Vinyl Acetate	5.06	43	51101	0.343	ppbv # 49
25) Ethyl Acetate	5.67	43	280006	1.366	ppbv # 85
26) Hexane	5.68	57	354416	3.052	ppbv # 58
27) Carbon Disulfide	4.54	76	4554549	27.330	ppbv 97
29) Chloroform	5.75	83	359910	1.521	ppbv 100
30) Cyclohexane	7.12	84	52295	0.420	ppbv # 93
31) cis-1,2-Dichloroethene	5.55	61	10642	0.089	ppbv 87
32) 1,1,1-Trichloroethane	6.51	97	10880	0.047	ppbv # 92
34) 2-Butanone	5.24	43	669505	5.146	ppbv 99
35) Carbon Tetrachloride	7.01	117	7527	0.034	ppbv 89
36) Benzene	6.88	78	539236	1.900	ppbv 98
37) 1,2-Dichloroethane	6.30	62	12857	0.095	ppbv # 71
38) Trichloroethene	7.83	130	36828	0.223	ppbv 99
39) 1,2-Dichloropropane	7.18	63	823570	8.592	ppbv # 32
40) 1,4-Dioxane	7.83	88	20245	0.423	ppbv # 1
41) Tetrahydrofuran	6.05	42	13061	0.189	ppbv # 80
42) Bromodichloromethane	7.80	83	23037	0.105	ppbv 91
43) Methyl Methacrylate	8.01	69	175158	1.596	ppbv # 30
44) 2,2,4-Trimethylpentane	7.91	57	5988822	16.041	ppbv # 1
50) 4-Methyl-2-Pentanone	8.75	43	66726	0.354	ppbv 93
51) 2-Hexanone	10.13	43	31178	0.202	ppbv # 62
52) Tetrachloroethene	11.22	164	123580	0.746	ppbv 100
53) Toluene	9.81	91	1701487	4.768	ppbv 98
58) Ethyl Benzene	12.71	91	214486	0.475	ppbv 89
59) m/p-Xylene	12.97	91	597497	1.583	ppbv 96
60) o-Xylene	13.70	91	454637	1.196	ppbv 97
61) Styrene	13.53	104	111841	0.385	ppbv 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

62) Isopropylbenzene	14.67	105	438234	0.718	ppbv	93
64) n-propylbenzene	15.57	120	373427	2.004	ppbv #	65
65) tert-Butylbenzene	16.77	119	503537	0.887	ppbv #	72
66) Benzyl Chloride	16.77	91	456294	3.235	ppbv #	61
67) sec-Butylbenzene	17.30	105	114967	0.152	ppbv	90
69) p-Isopropyltoluene	17.66	119	206085	0.311	ppbv	93
70) n-Butylbenzene	18.56	91	249450	0.390	ppbv #	25
71) 2-Chlorotoluene	15.57	91	1578837	3.551	ppbv #	36
72) 4-Ethyltoluene	15.85	105	1746098	3.613	ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	1582333	3.540	ppbv	93
74) 1,2,4-Trimethylbenzene	16.77	105	4056357	8.264	ppbv #	75
75) 1,3-Dichlorobenzene	17.15	146	144490	0.397	ppbv	97
76) 1,4-Dichlorobenzene	17.15	146	144490	0.403	ppbv	96
79) Naphthalene	22.21	128	697234	1.280	ppbv #	94
80) Naphthalene,2-methyl-	24.99	142	11014	0.059	ppbv	91

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

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ClientSampleId :

SS-7

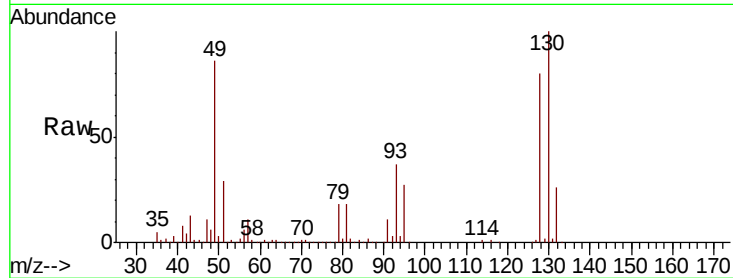
Tot Ion: 49 Resp: 1051912

Ion Ratio Lower Upper

49 100

128 92.4 50.0 150.1

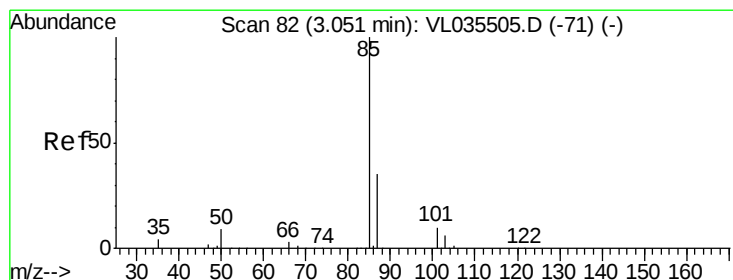
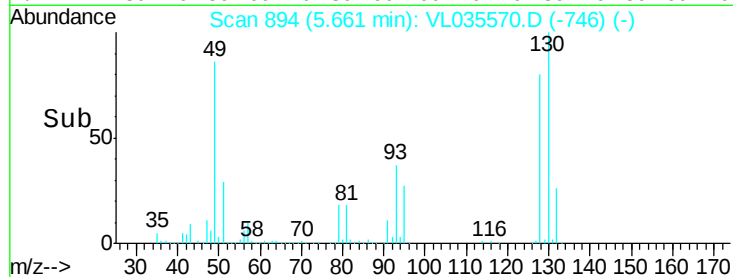
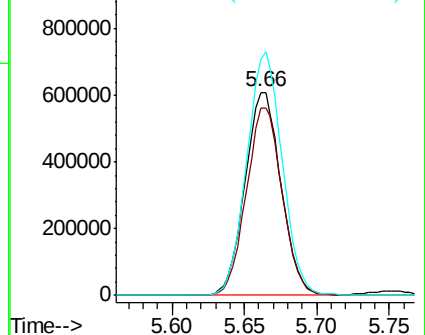
130 118.7 64.4 193.2



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: 0.444 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL035570.D

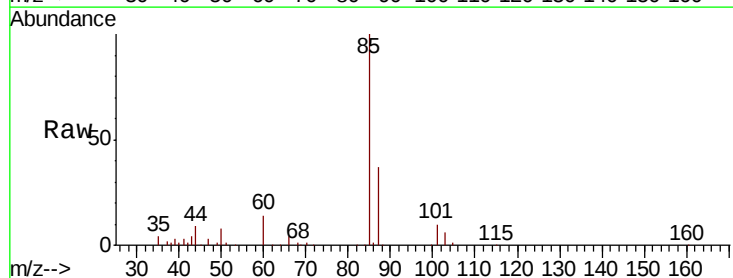
Acq: 9 Sep 2020 00:27

Tgt Ion: 85 Resp: 80871

Ion Ratio Lower Upper

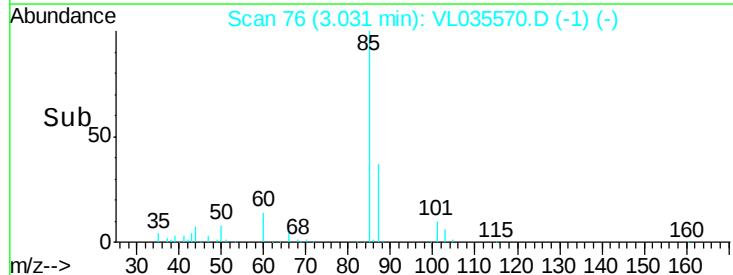
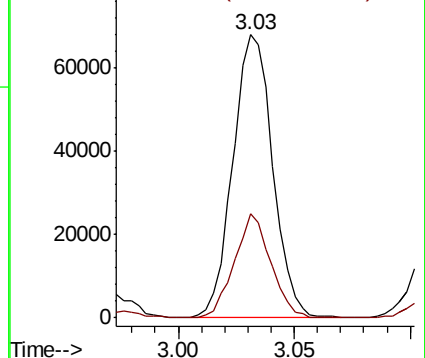
85 100

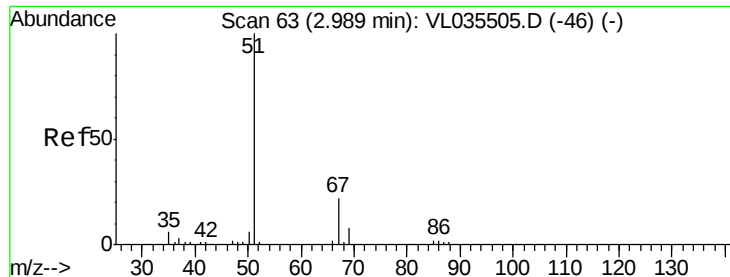
87 36.9 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.381 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

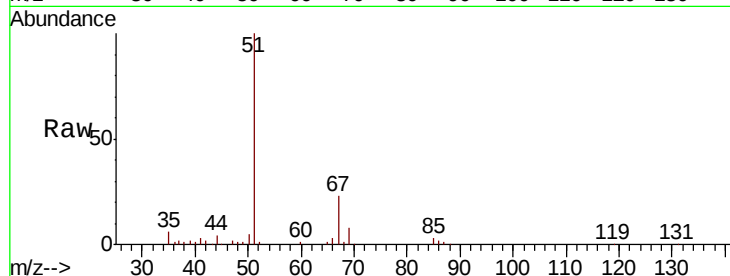
SS-7

Tot Ion: 51 Resp: 509674

Ion Ratio Lower Upper

51 100

67 11.2 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.97

200000

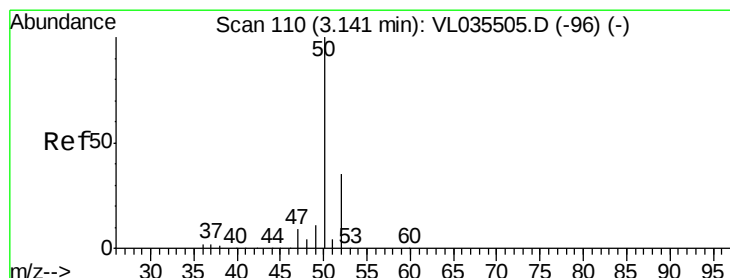
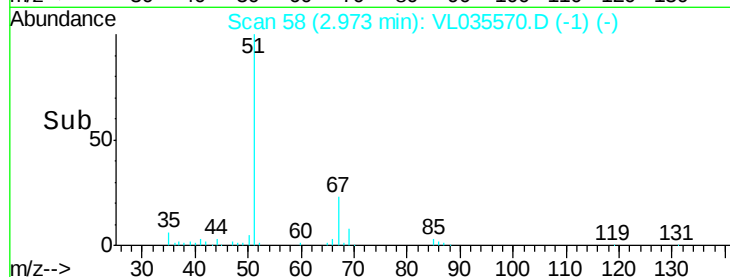
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 0.570 ppbv

RT: 3.12 min Scan# 105

Delta R.T. -0.02 min

Lab File: VL035570.D

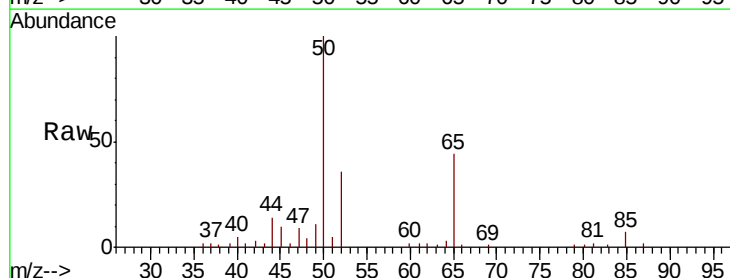
Acq: 9 Sep 2020 00:27

Tgt Ion: 50 Resp: 35497

Ion Ratio Lower Upper

50 100

52 35.6 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.12

25000

20000

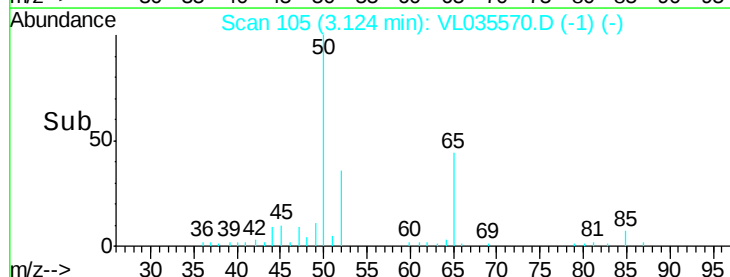
15000

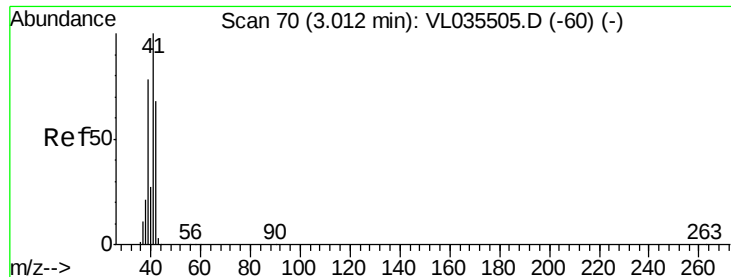
10000

5000

0

Time-->





#9

Propene

Concen: 5.032 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

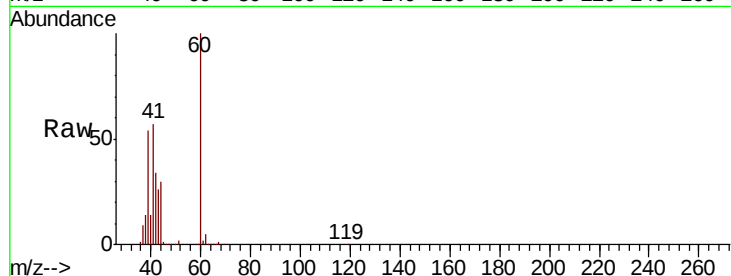
SS-7

Tot Ion: 41 Resp: 225679

Ion Ratio Lower Upper

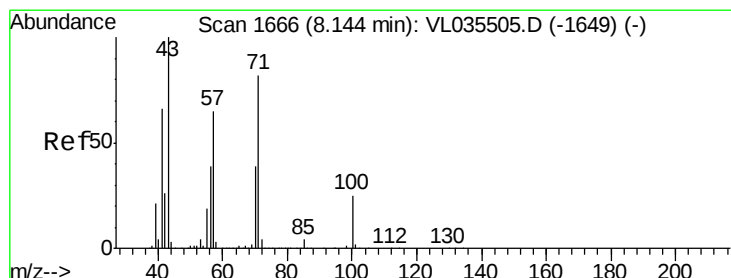
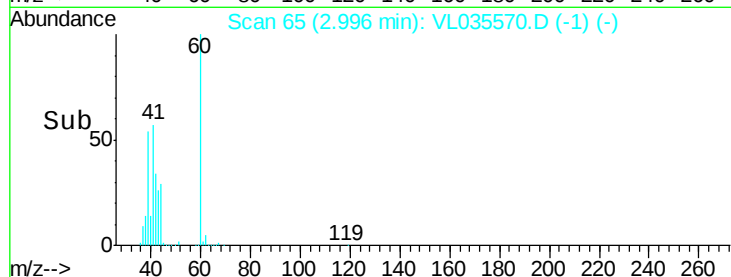
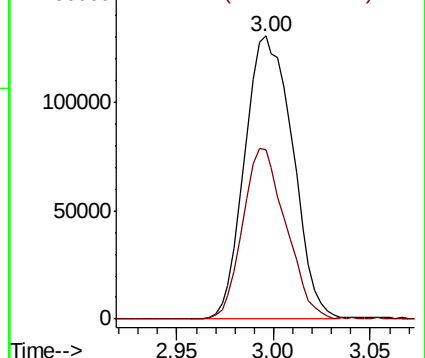
41 100

42 54.8 56.3 84.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.726 ppbv

RT: 8.11 min Scan# 1657

Delta R.T. -0.03 min

Lab File: VL035570.D

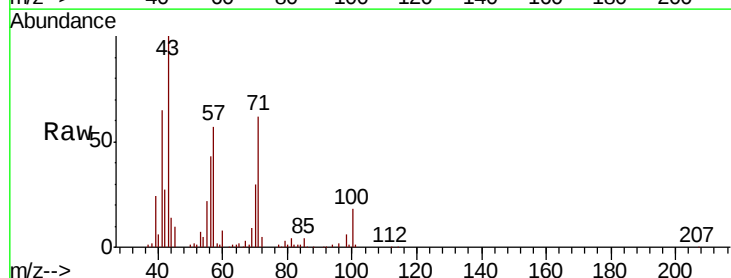
Acq: 9 Sep 2020 00:27

Tgt Ion: 43 Resp: 87426

Ion Ratio Lower Upper

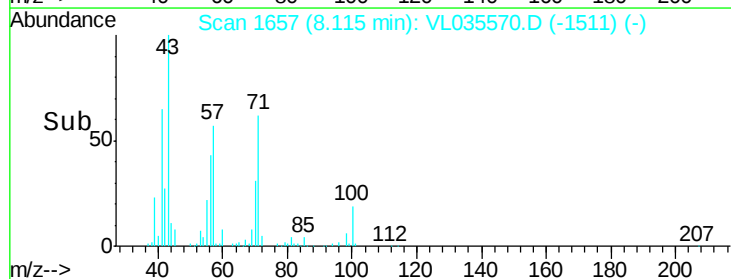
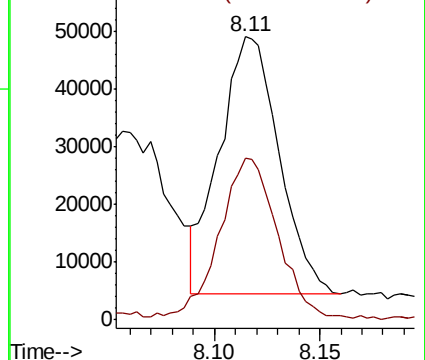
43 100

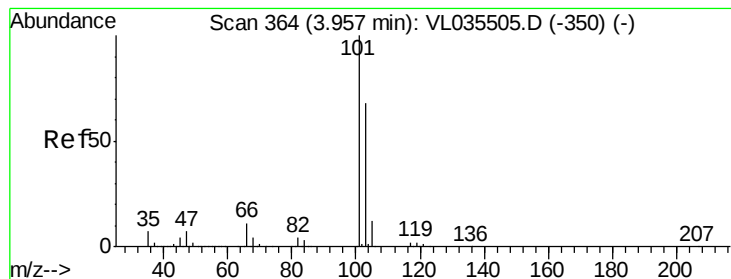
57 0.0 51.4 77.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 10.121 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

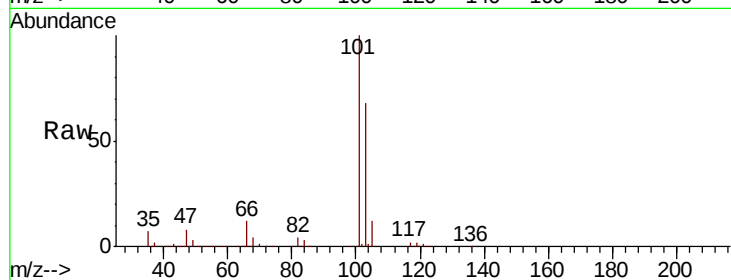
SS-7

Tot Ion:101 Resp: 2690657

Ion Ratio Lower Upper

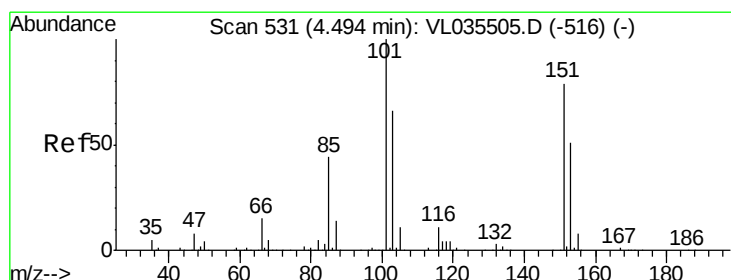
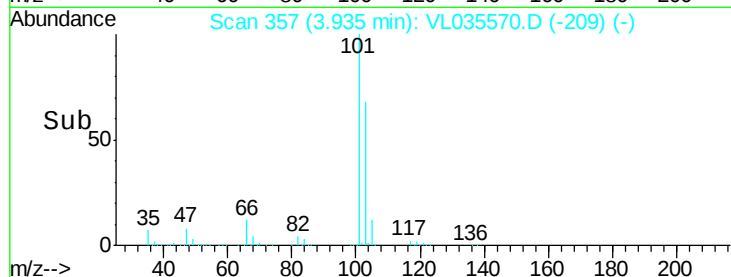
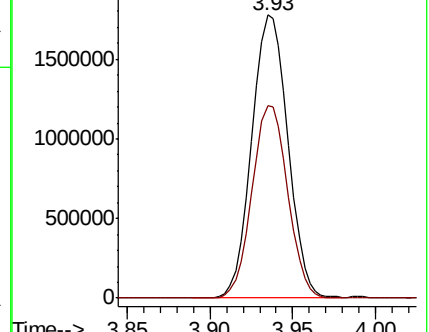
101 100

103 68.0 54.5 81.7



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: 0.072 ppbv

RT: 4.48 min Scan# 526

Delta R.T. -0.02 min

Lab File: VL035570.D

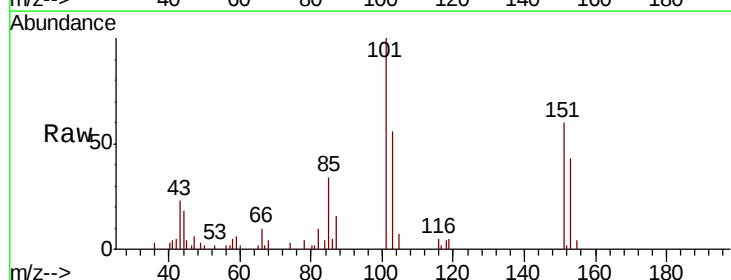
Acq: 9 Sep 2020 00:27

Tgt Ion:101 Resp: 14521

Ion Ratio Lower Upper

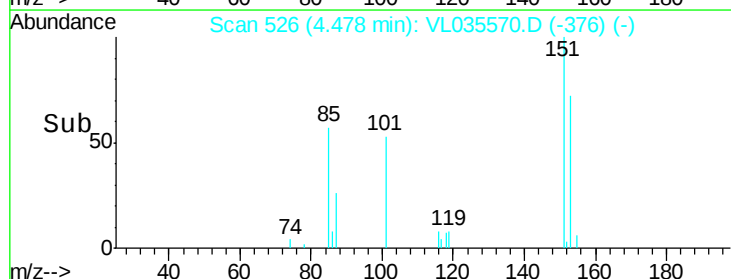
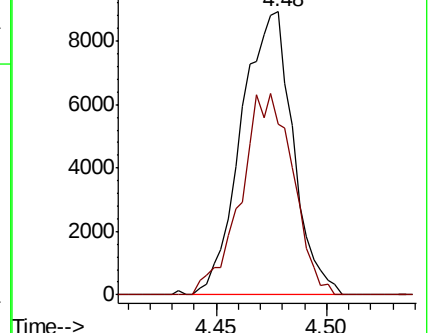
101 100

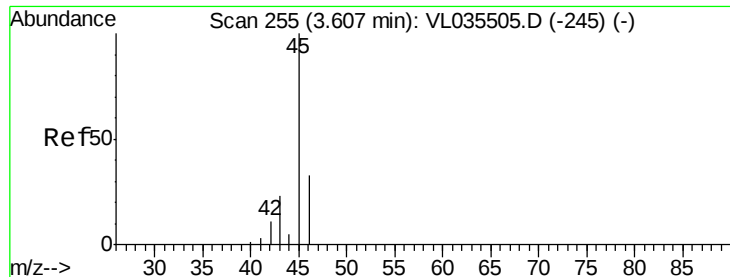
151 71.5 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 146.473 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

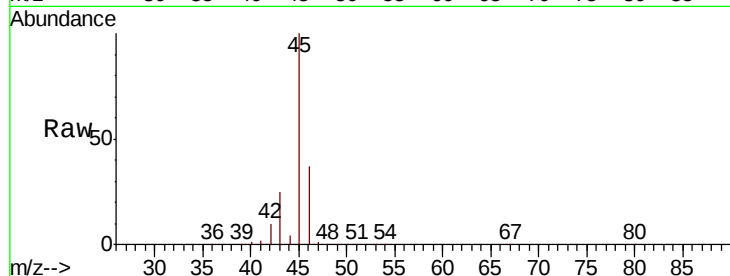
SS-7

Tot Ion: 45 Resp: 1628843

Ion Ratio Lower Upper

45 100

46 36.0 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

3.61

800000

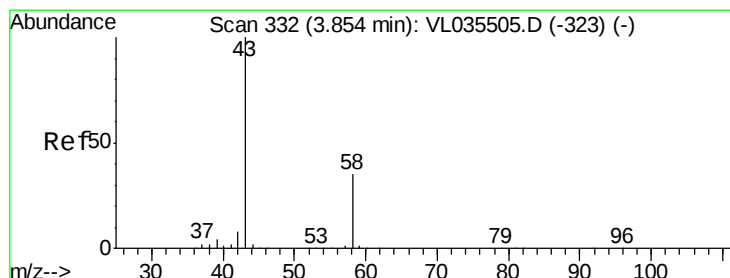
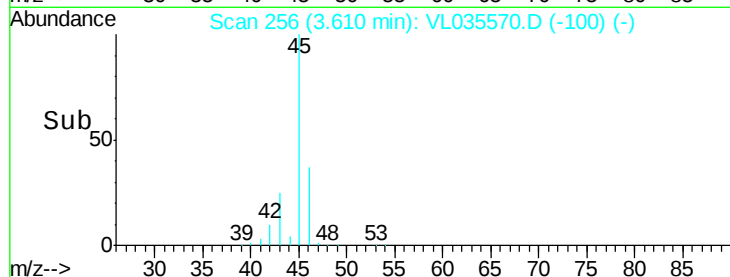
600000

400000

200000

0

Time-->



#15

Acetone

Concen: 78.369 ppbv

RT: 3.83 min Scan# 325

Delta R.T. -0.02 min

Lab File: VL035570.D

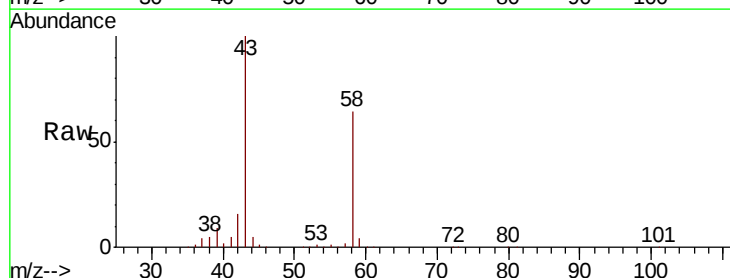
Acq: 9 Sep 2020 00:27

Tgt Ion: 43 Resp: 9092023

Ion Ratio Lower Upper

43 100

58 53.3 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

5000000

4000000

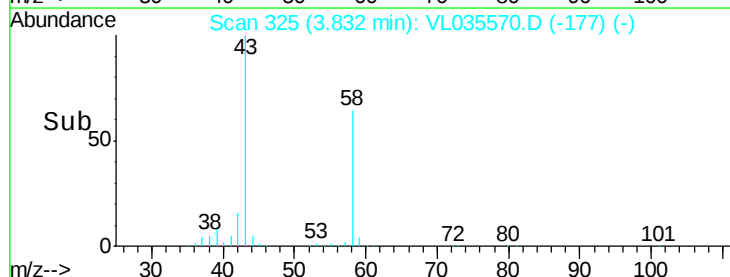
3000000

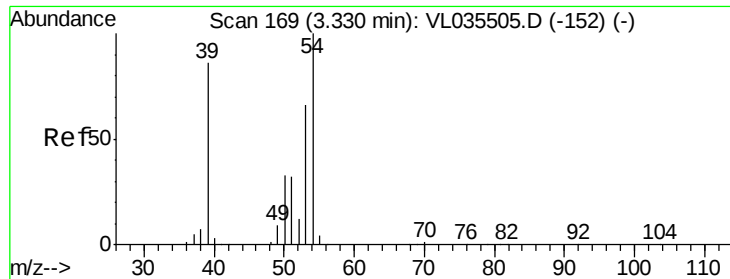
2000000

1000000

0

Time-->





#16

1,3-Butadiene

Concen: 1.763 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.04 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

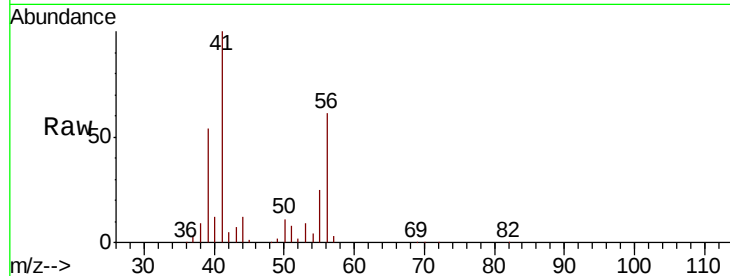
SS-7

Tot Ion: 39 Resp: 76132

Ion Ratio Lower Upper

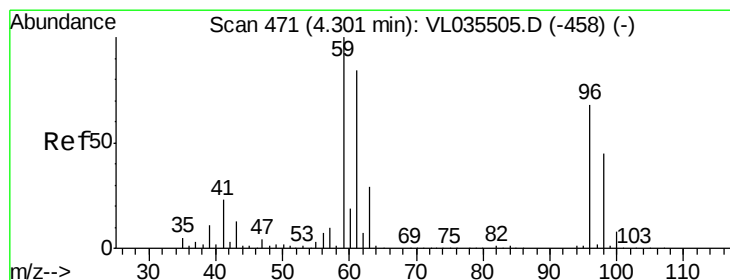
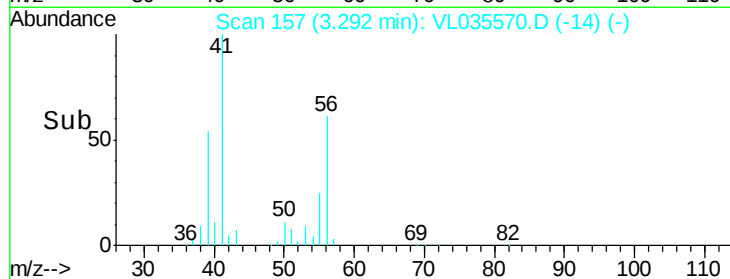
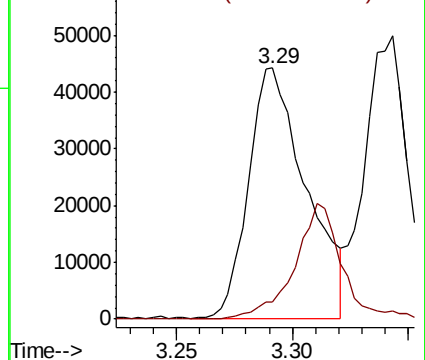
39 100

54 37.9 88.4 132.6#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#17

tert-Butyl alcohol

Concen: 7.154 ppbv

RT: 4.30 min Scan# 470

Delta R.T. -0.00 min

Lab File: VL035570.D

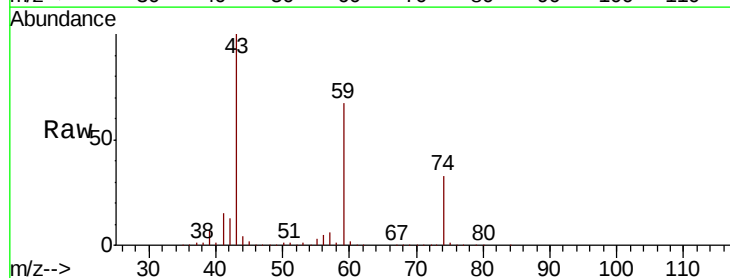
Acq: 9 Sep 2020 00:27

Tgt Ion: 59 Resp: 1010336

Ion Ratio Lower Upper

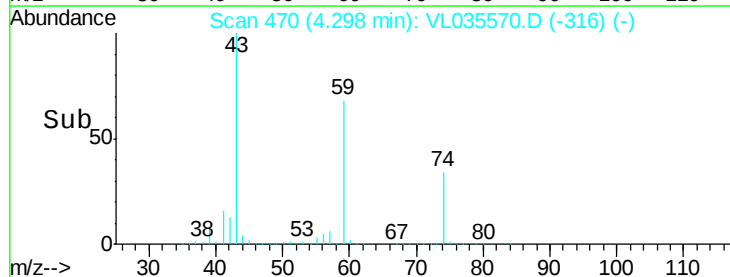
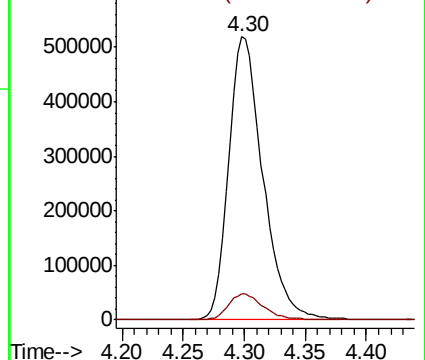
59 100

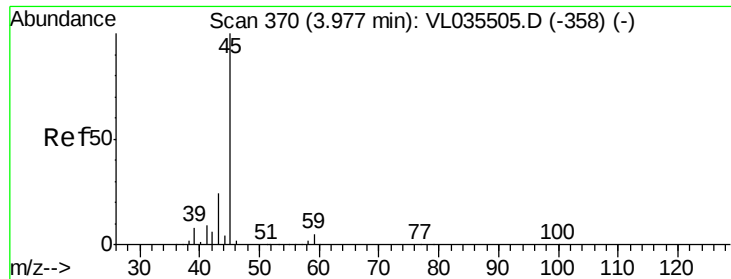
57 9.7 8.4 12.6



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 10.025 ppbv

RT: 3.98 min Scan# 370

Delta R.T. -0.00 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

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ClientSampleId :

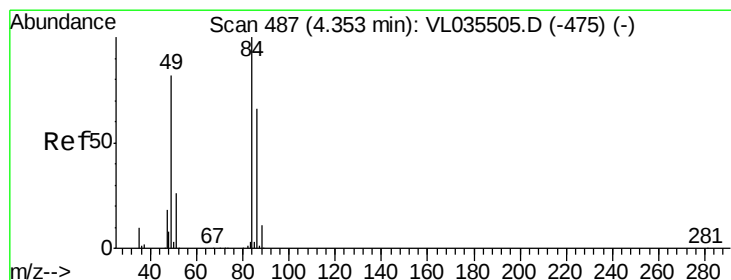
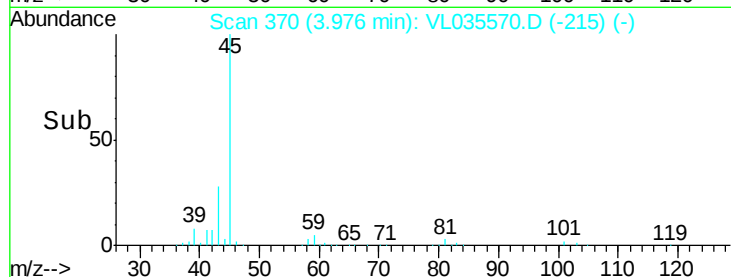
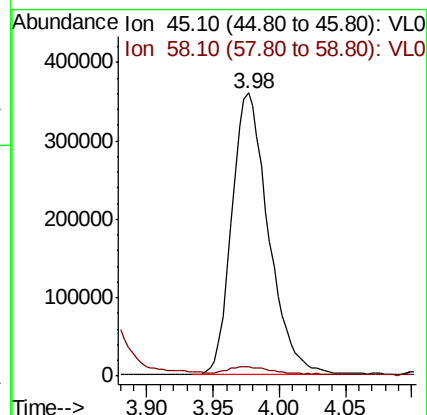
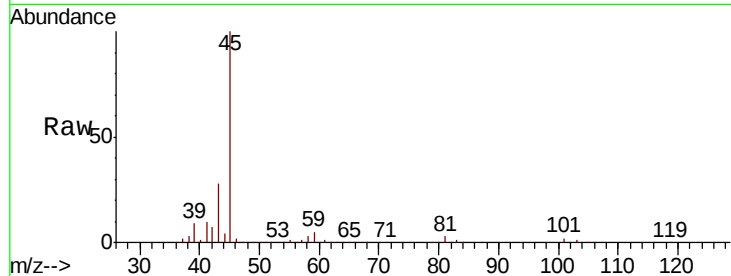
SS-7

Tot Ion: 45 Resp: 693870

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 4.464 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Tgt Ion: 84 Resp: 385738

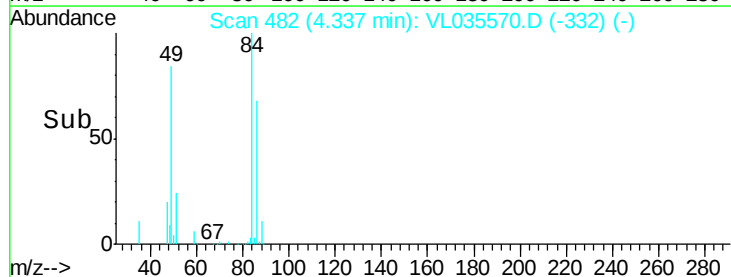
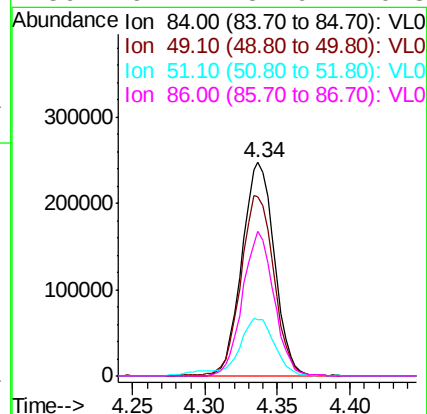
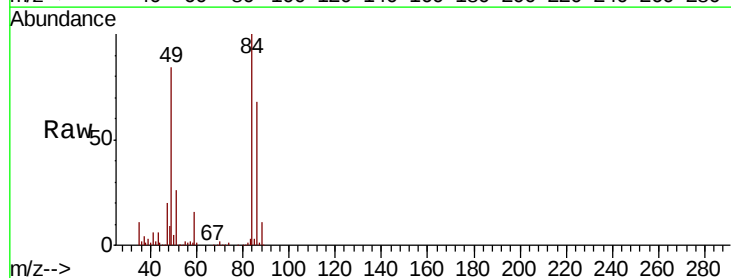
Ion Ratio Lower Upper

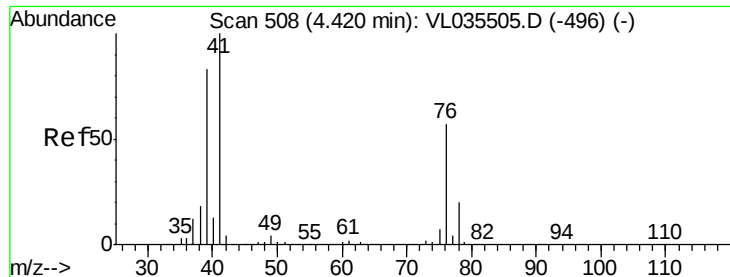
84 100

49 84.0 65.4 98.0

51 25.9 21.5 32.3

86 67.7 52.9 79.3





#21

Allvl Chloride

Concen: 0.126 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.07 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

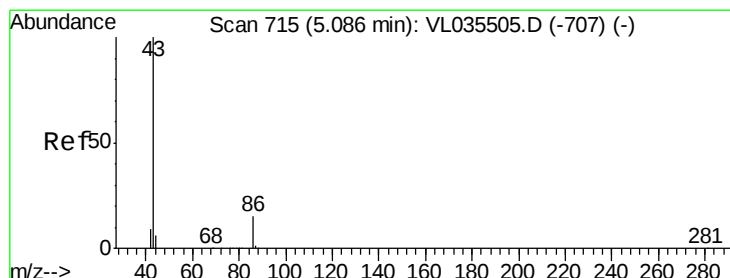
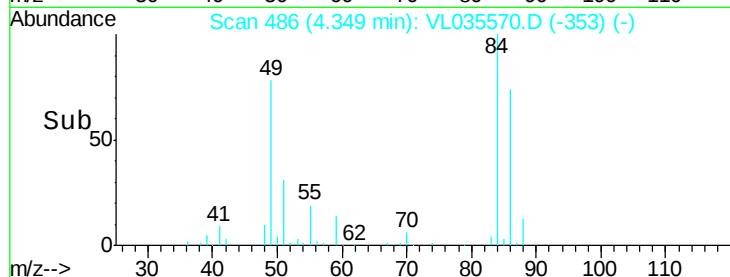
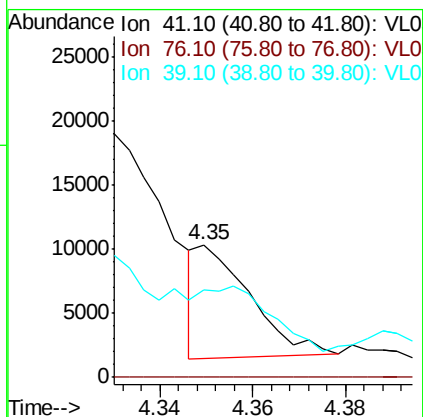
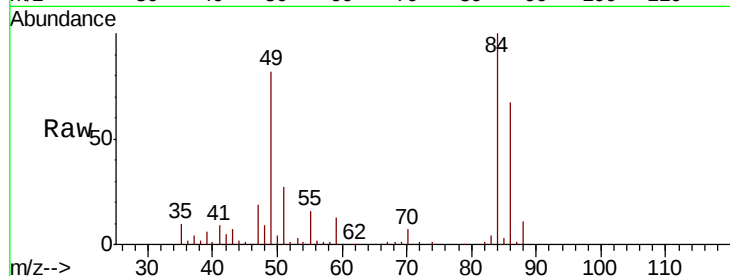
Tot Ion: 41 Resp: 6834

Ion Ratio Lower Upper

41 100

76 0.0 46.2 69.2#

39 0.0 67.8 101.6#



#23

Vinyl Acetate

Concen: 0.343 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Tgt Ion: 43 Resp: 51101

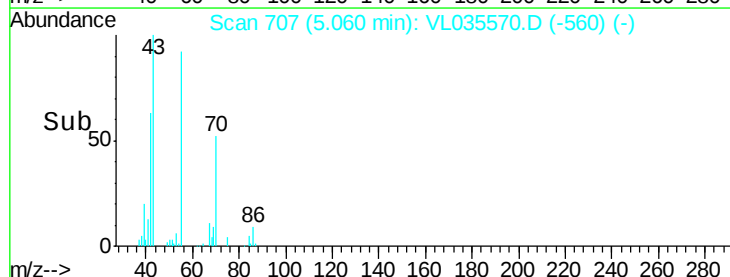
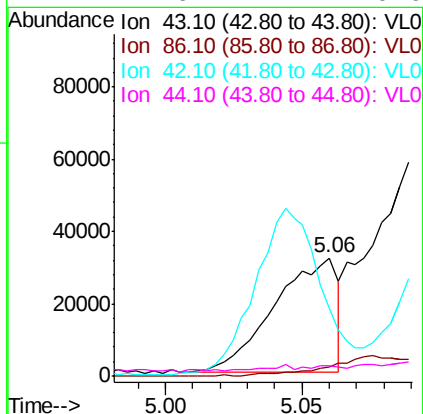
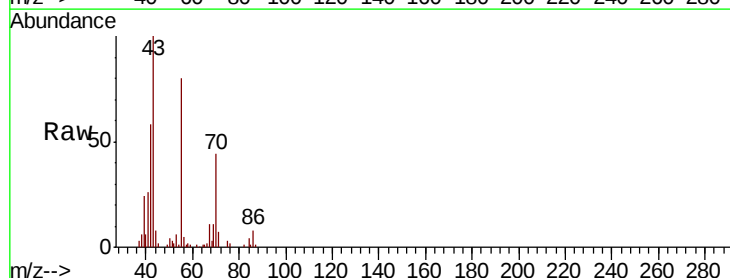
Ion Ratio Lower Upper

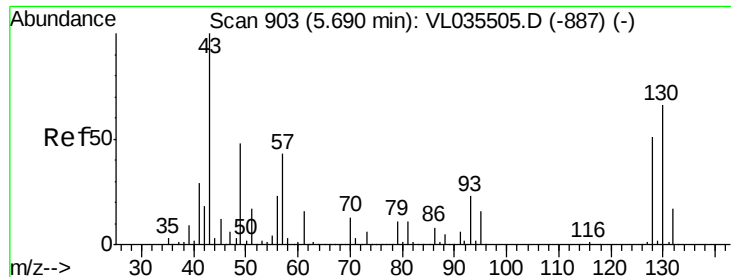
43 100

86 8.0 10.6 16.0#

42 56.9 7.5 11.3#

44 2.6 4.4 6.6#

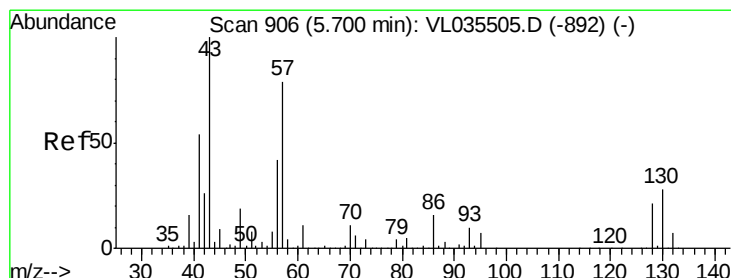
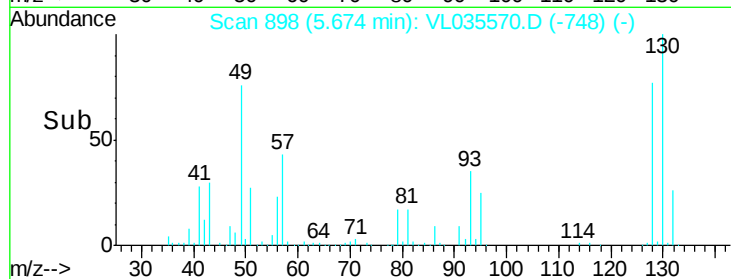
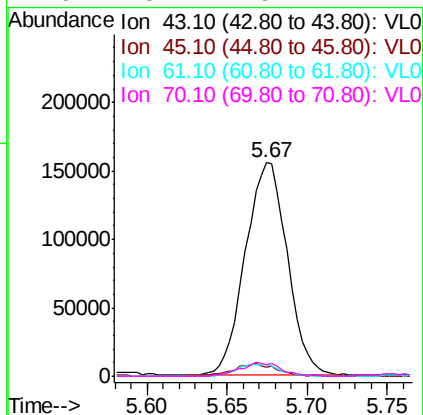
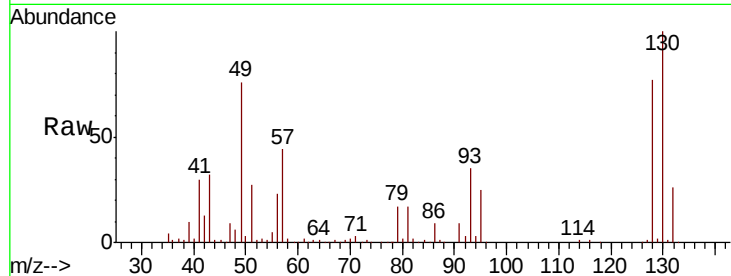




#25
Ethyl Acetate
Concen: 1.366 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

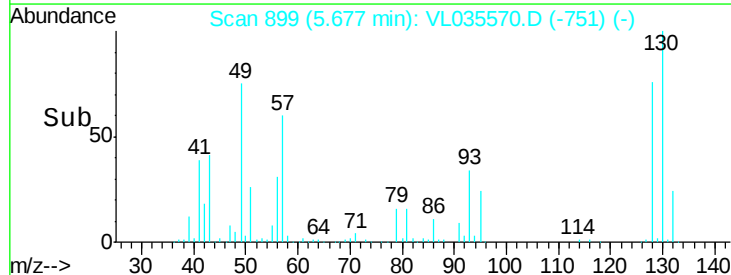
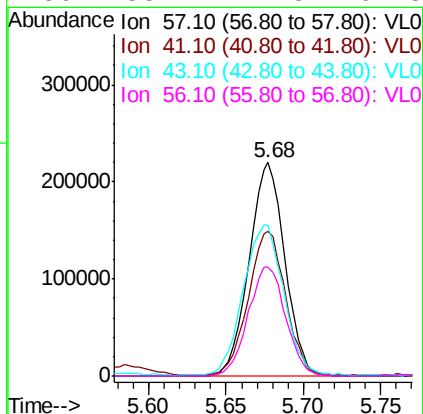
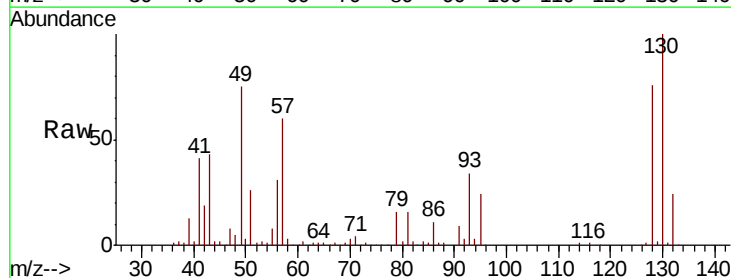
Instrument :
MSVOA_L
ClientSampleID :
SS-7

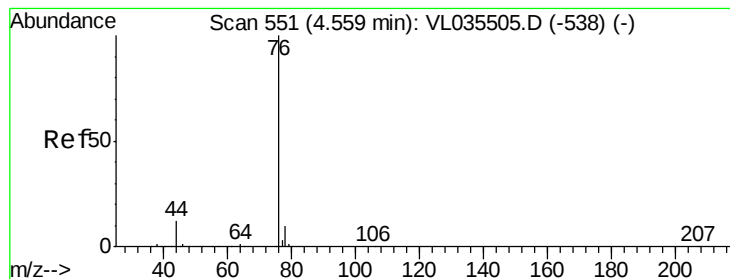
Tot Ion: 43 Resp: 280006
Ion Ratio Lower Upper
43 100
45 6.2 8.4 12.6#
61 5.8 10.6 16.0#
70 6.4 9.4 14.2#



#26
Hexane
Concen: 3.052 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 57 Resp: 354416
Ion Ratio Lower Upper
57 100
41 70.2 55.9 83.9
43 79.1 141.8 212.8#
56 53.7 41.8 62.8





#27

Carbon Disulfide

Concen: 27.330 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

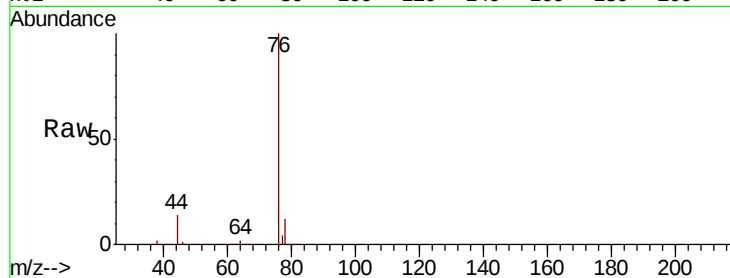
Tot Ion: 76 Resp: 4554549

Ion Ratio Lower Upper

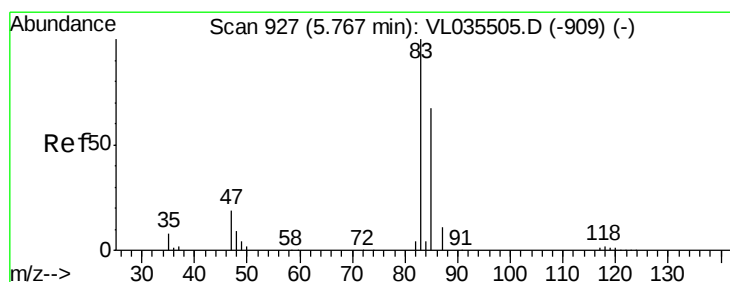
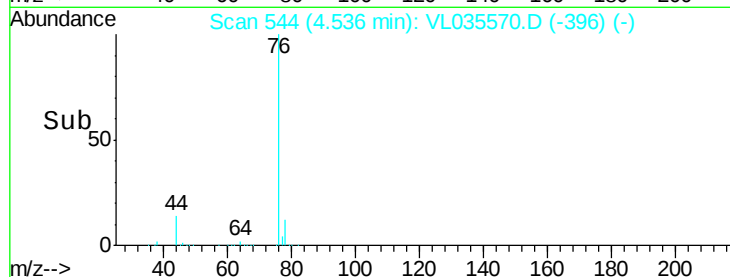
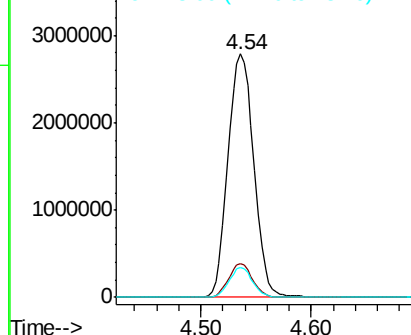
76 100

44 12.6 9.3 13.9

78 11.2 7.8 11.6



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



#29

Chloroform

Concen: 1.521 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.02 min

Lab File: VL035570.D

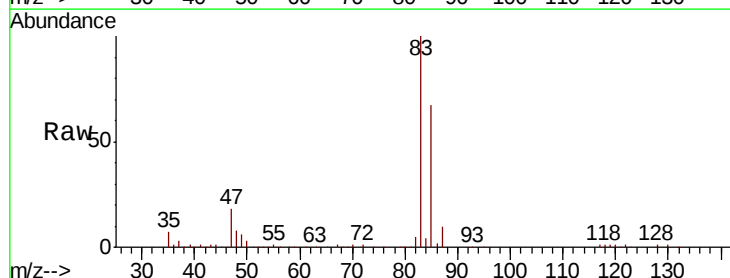
Acq: 9 Sep 2020 00:27

Tgt Ion: 83 Resp: 359910

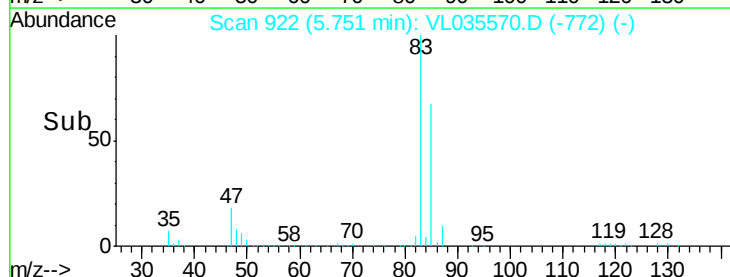
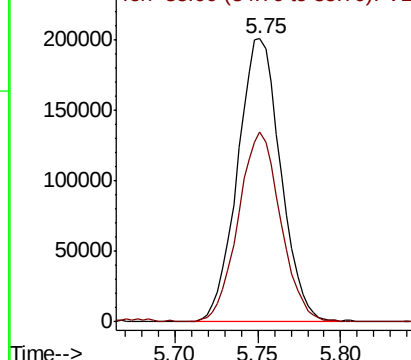
Ion Ratio Lower Upper

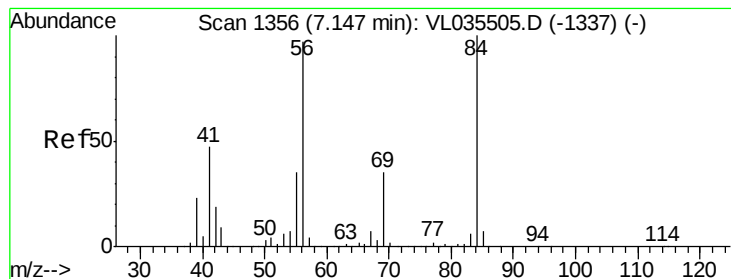
83 100

85 67.0 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





#30

Cvclohexane

Concen: 0.420 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

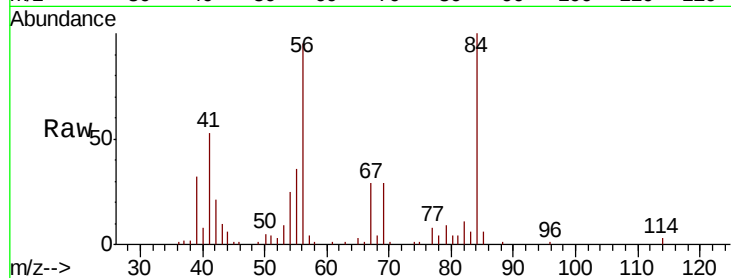
Tot Ion: 84 Resp: 52295

Ion Ratio Lower Upper

84 100

56 98.5 80.1 120.1

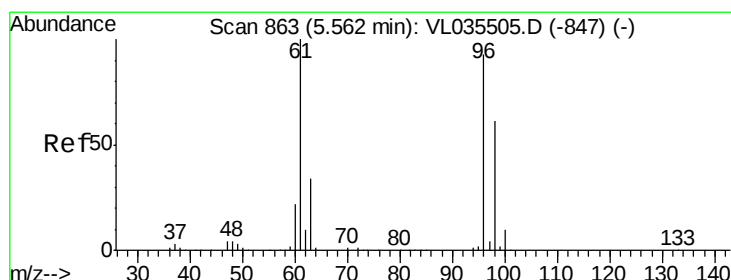
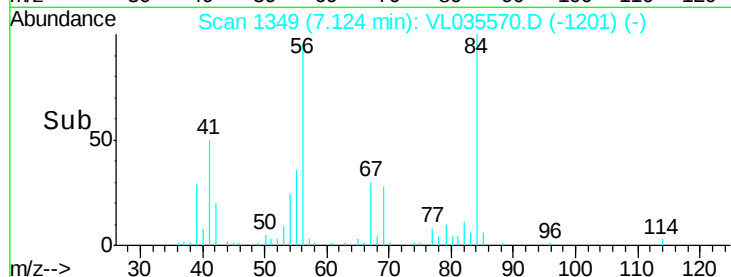
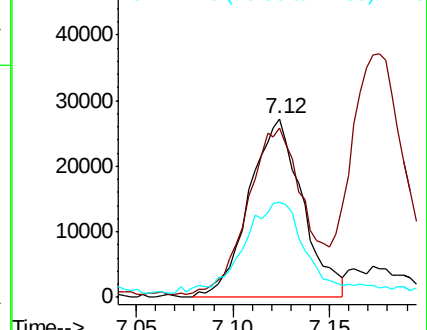
41 60.7 38.1 57.1#



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0



#31

cis-1,2-Dichloroethene

Concen: 0.089 ppbv

RT: 5.55 min Scan# 858

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

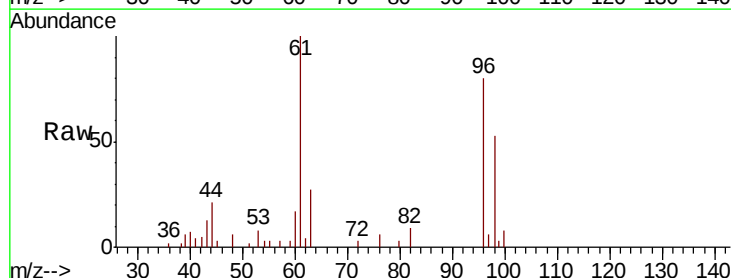
Tgt Ion: 61 Resp: 10642

Ion Ratio Lower Upper

61 100

96 80.2 74.4 111.6

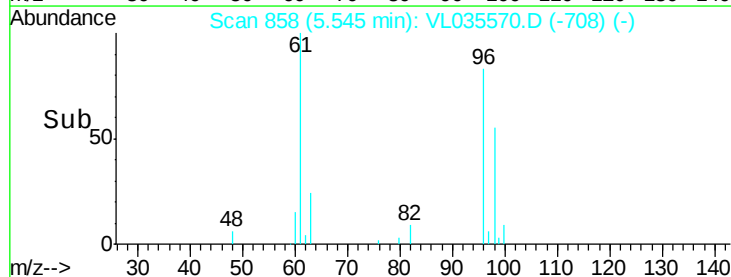
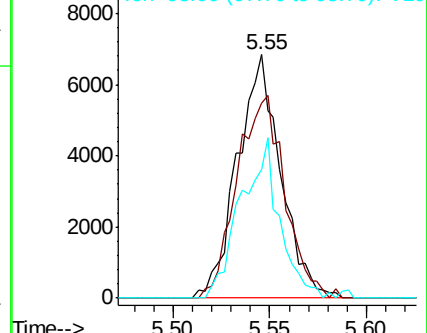
98 52.8 49.2 73.8

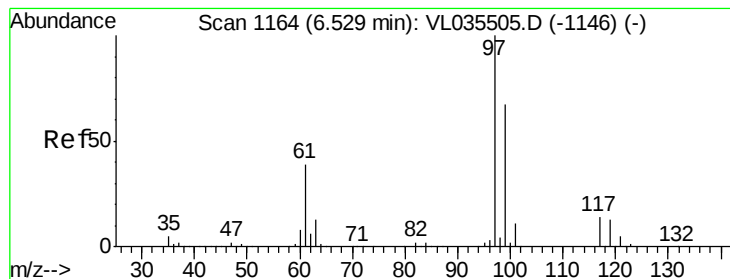


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.047 ppbv

RT: 6.51 min Scan# 1158

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

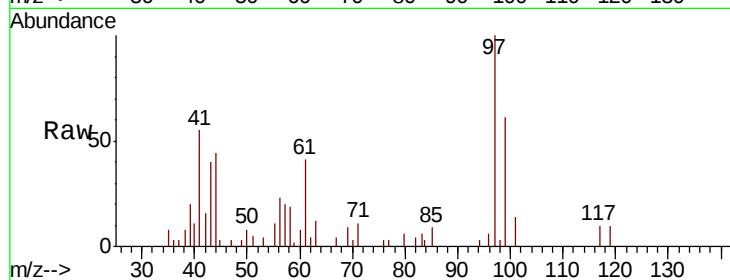
Tot Ion: 97 Resp: 10880

Ion Ratio Lower Upper

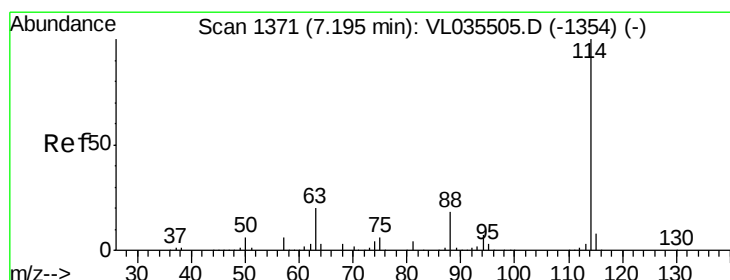
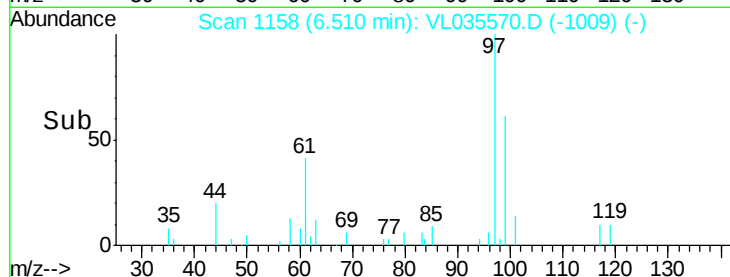
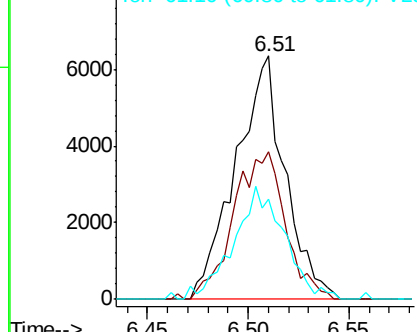
97 100

99 63.5 53.3 79.9

61 47.8 30.6 46.0#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

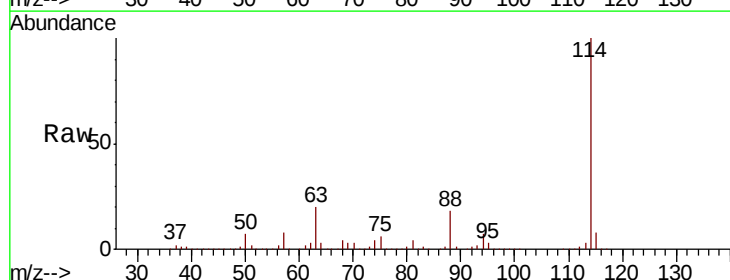
Tgt Ion: 114 Resp: 4383549

Ion Ratio Lower Upper

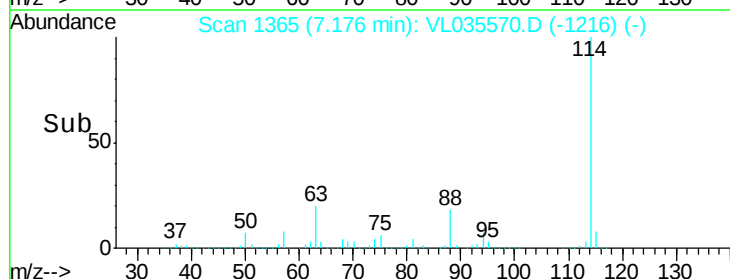
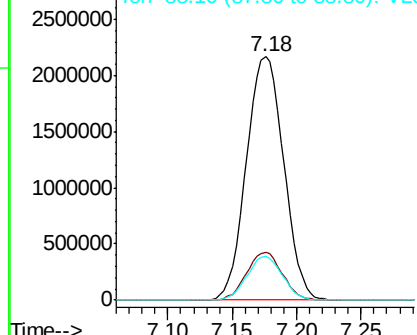
114 100

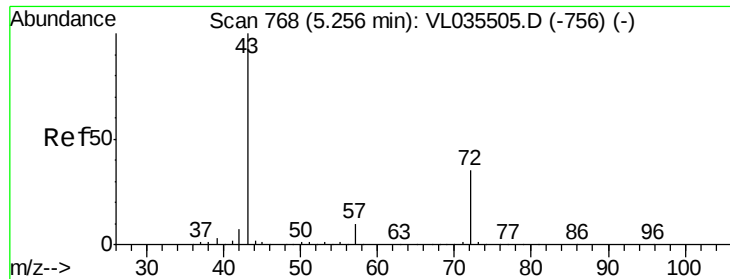
63 18.9 14.7 22.1

88 17.0 13.4 20.2



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

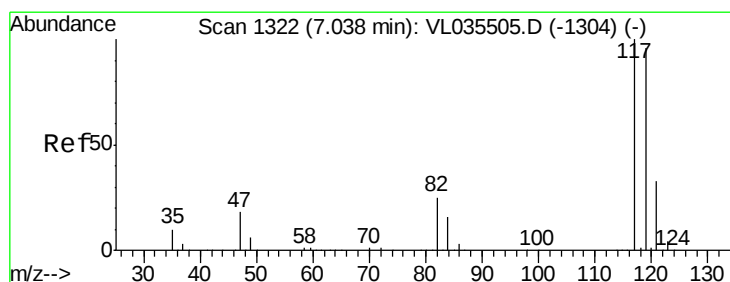
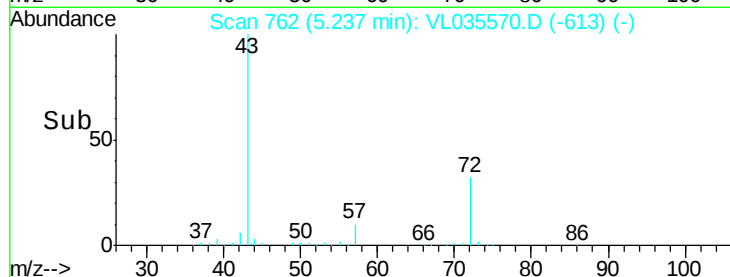
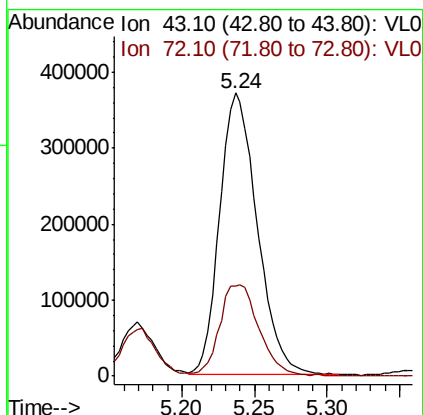
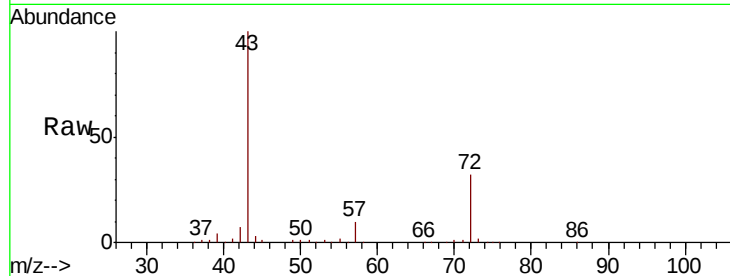




#34
2-Butanone
Concen: 5.146 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

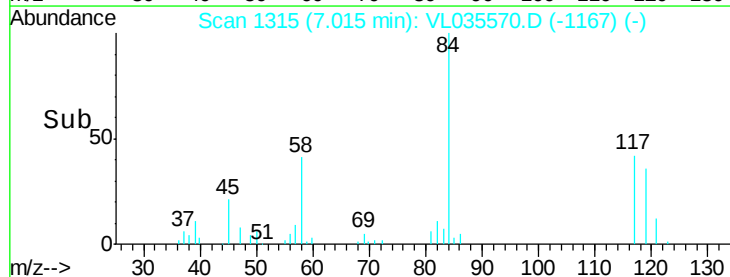
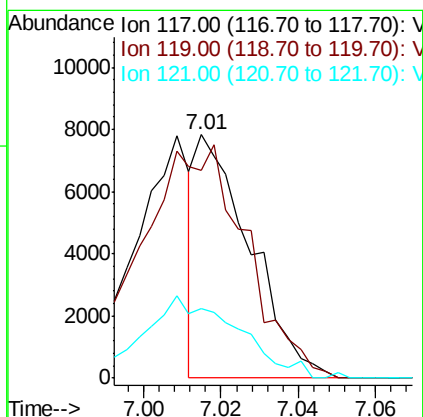
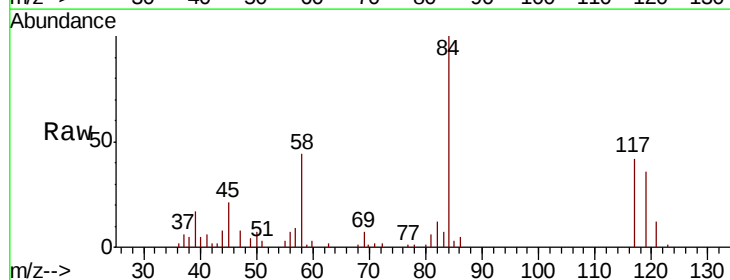
Instrument :
MSVOA_L
ClientSampleId :
SS-7

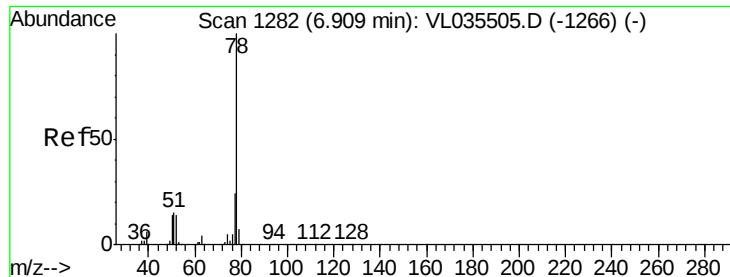
Tot Ion: 43 Resp: 669505
Ion Ratio Lower Upper
43 100
72 33.8 27.7 41.5



#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.02 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 117 Resp: 7527
Ion Ratio Lower Upper
117 100
119 85.3 77.2 115.8
121 26.5 26.1 39.1





#36

Benzene

Concen: 1.900 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

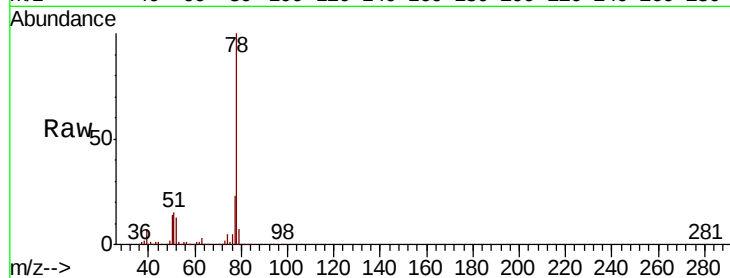
Tot Ion: 78 Resp: 539236

Ion Ratio Lower Upper

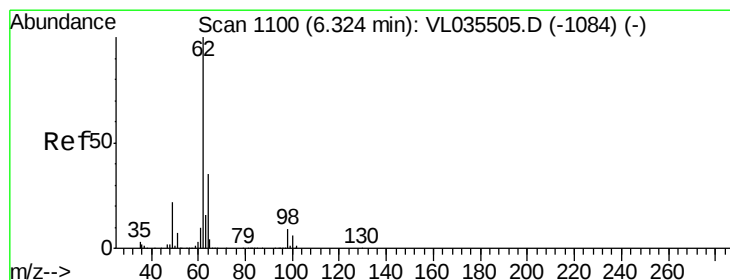
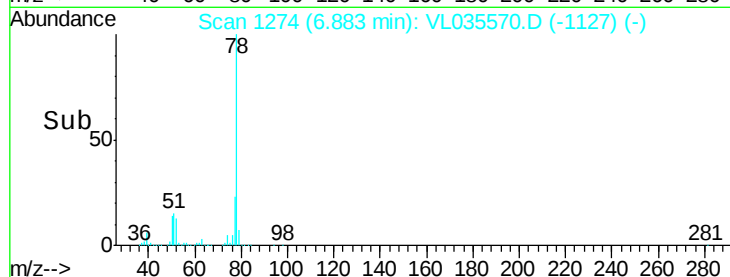
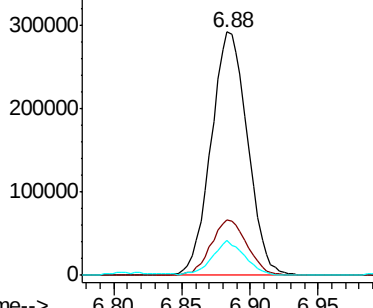
78 100

77 22.7 19.3 28.9

50 14.2 11.0 16.6



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: 0.095 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. -0.02 min

Lab File: VL035570.D

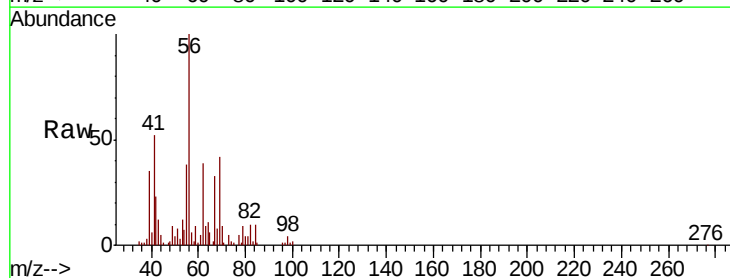
Acq: 9 Sep 2020 00:27

Tgt Ion: 62 Resp: 12857

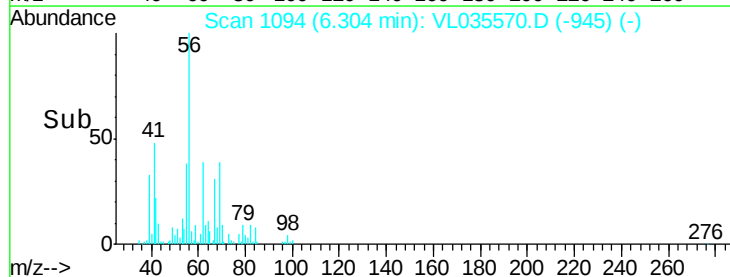
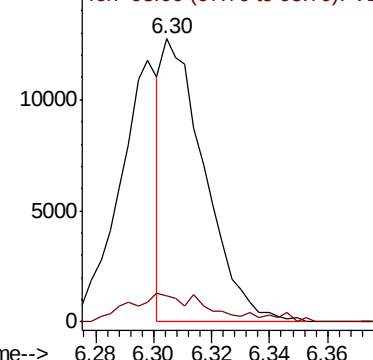
Ion Ratio Lower Upper

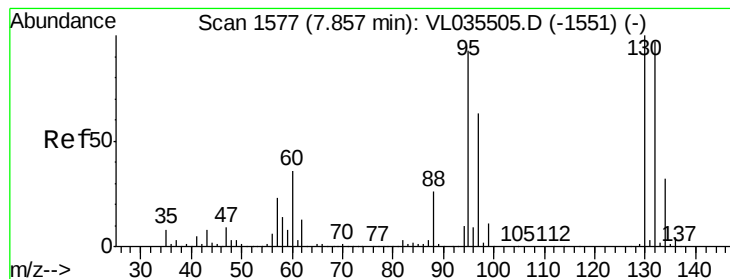
62 100

98 19.7 7.4 11.0#



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





#38

Trichloroethene

Concen: 0.223 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

Tot Ion:130 Resp: 36828

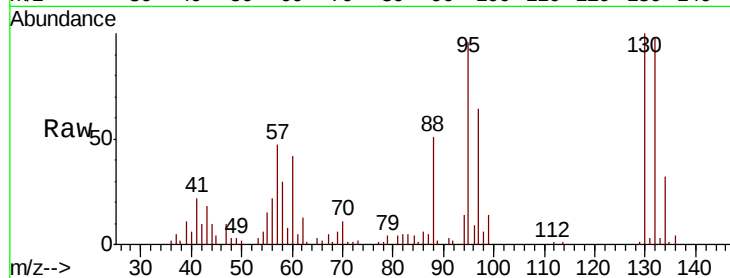
Ion Ratio Lower Upper

130 100

95 94.5 74.6 112.0

132 98.4 77.6 116.4

97 62.4 50.6 76.0

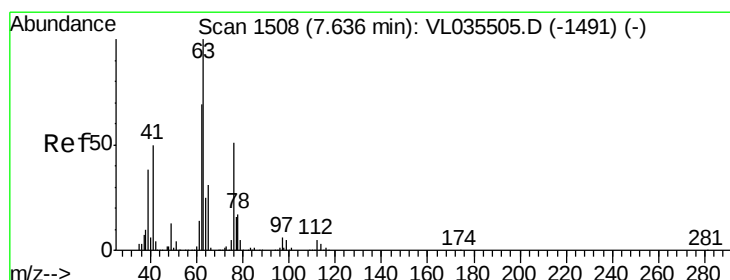
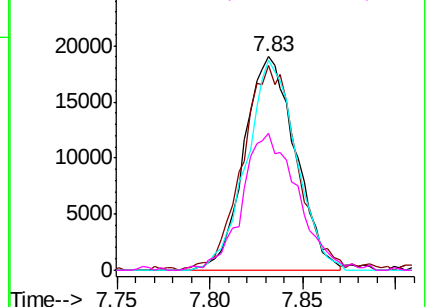
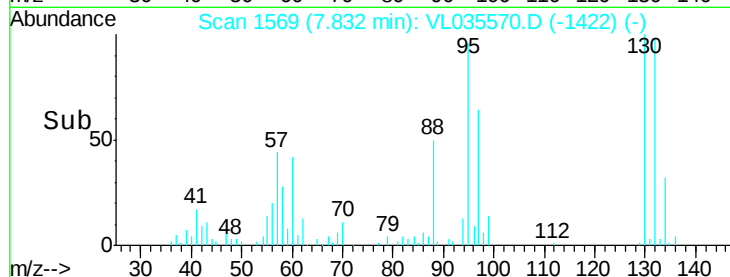


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.592 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.46 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

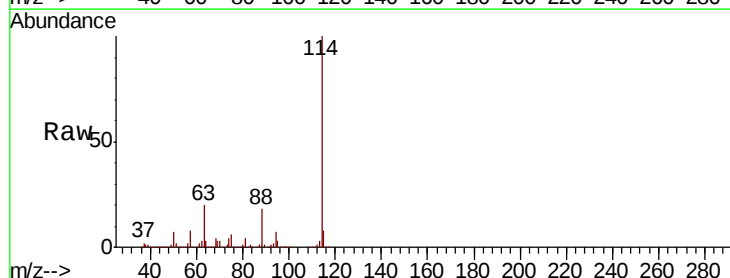
Tgt Ion: 63 Resp: 823570

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

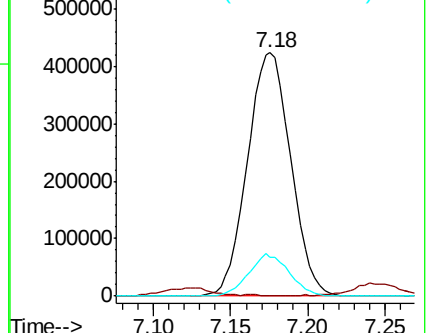
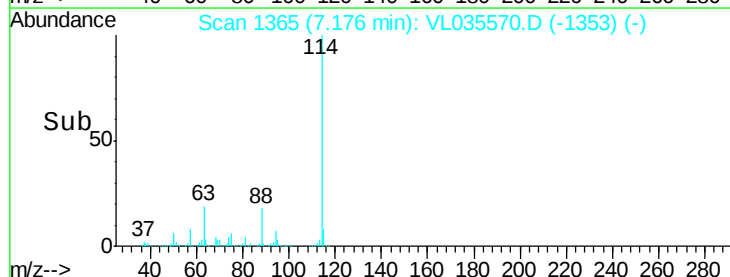
62 16.2 55.4 83.0#

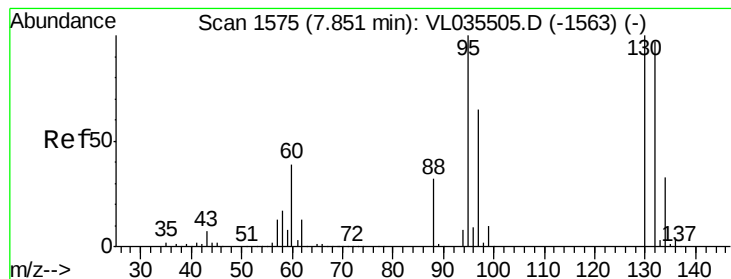


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#40

1,4-Dioxane

Concen: 0.423 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

Tot Ion: 88 Resp: 20245

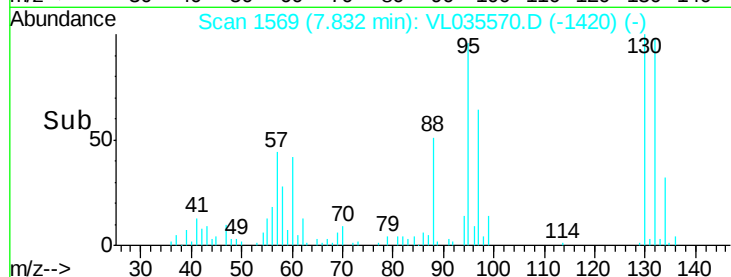
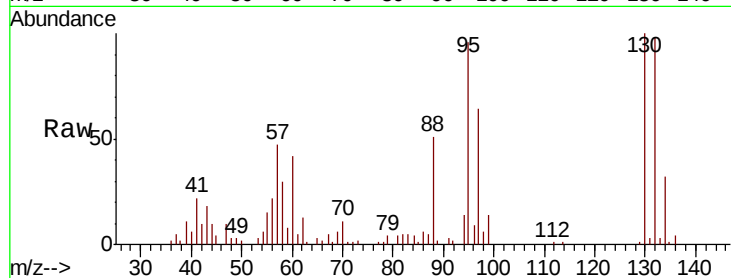
Ion Ratio Lower Upper

88 100

58 0.0 68.7 103.1#

43 0.0 104.3 156.5#

57 0.0 560.7 841.1#

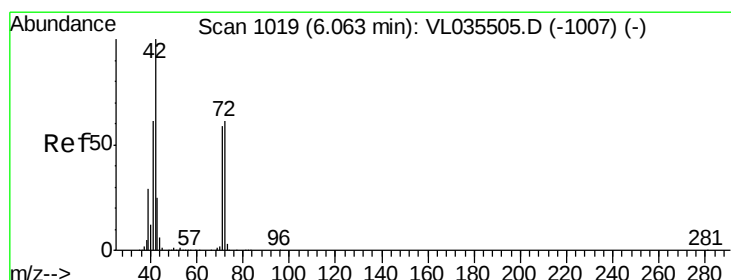
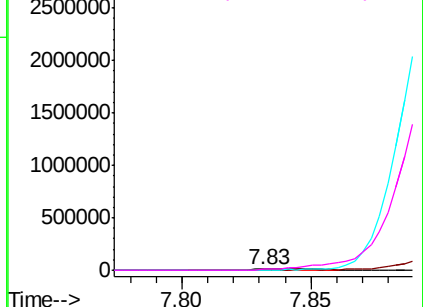


Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#41

Tetrahydrofuran

Concen: 0.189 ppbv

RT: 6.05 min Scan# 1014

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

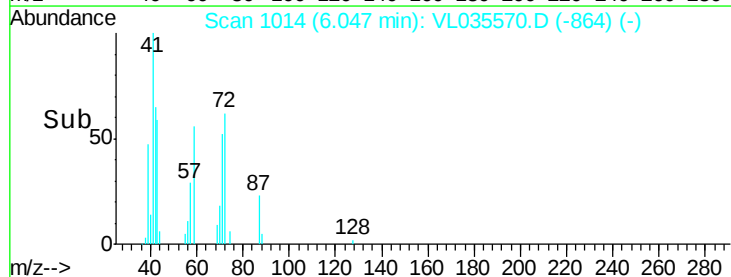
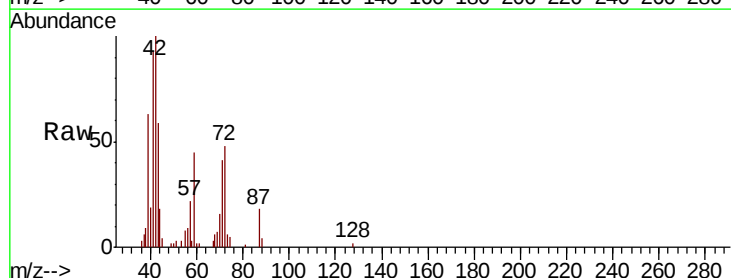
Tgt Ion: 42 Resp: 13061

Ion Ratio Lower Upper

42 100

72 81.6 48.6 73.0#

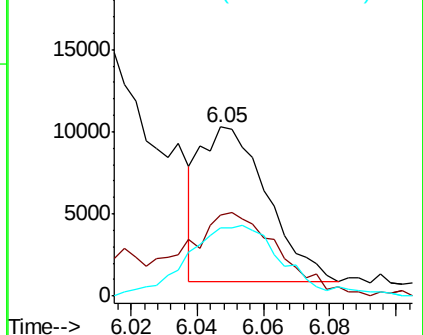
71 66.0 46.1 69.1

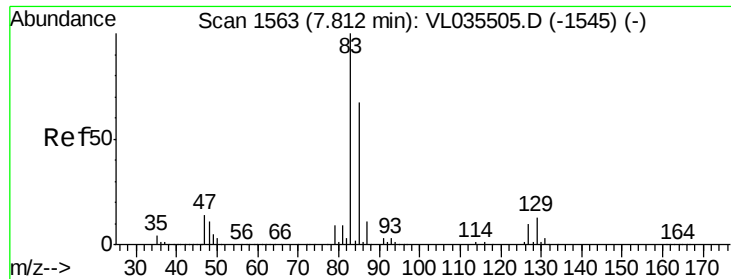


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.105 ppbv

RT: 7.80 min Scan# 1558

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

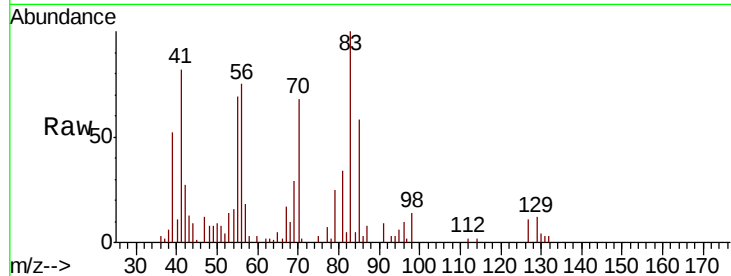
Tot Ion: 83 Resp: 23037

Ion Ratio Lower Upper

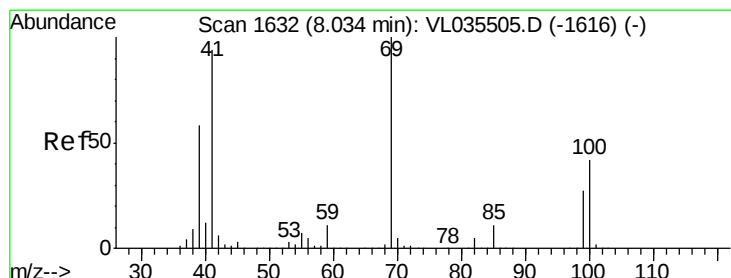
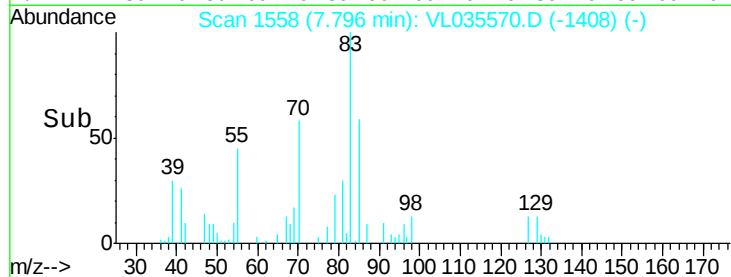
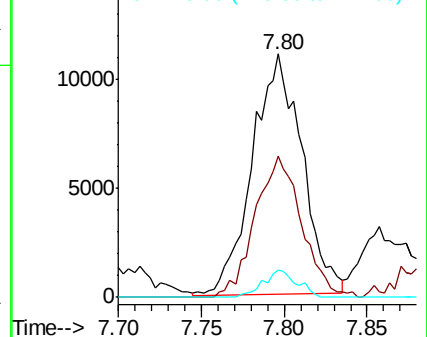
83 100

85 59.0 53.7 80.5

127 11.7 8.1 12.1



Abundance Ion 83.00 (82.70 to 83.70): VL0
15000 Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 1.596 ppbv

RT: 8.01 min Scan# 1626

Delta R.T. -0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

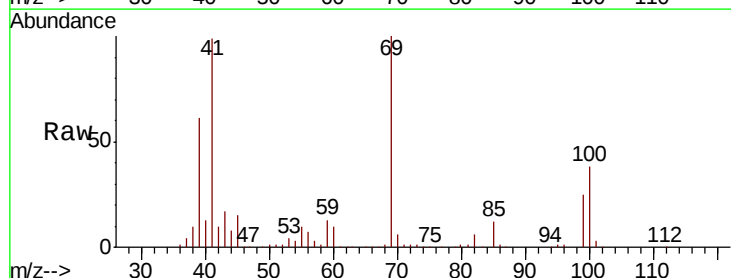
Tgt Ion: 69 Resp: 175158

Ion Ratio Lower Upper

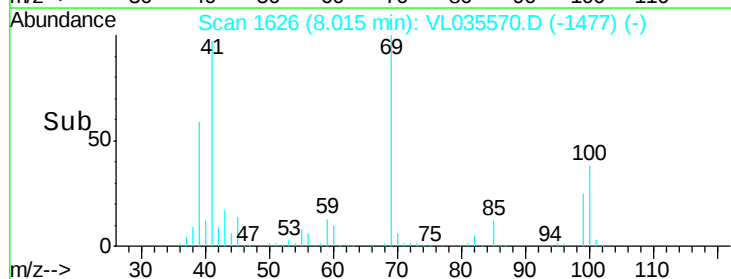
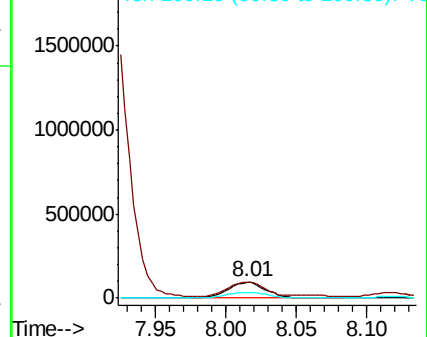
69 100

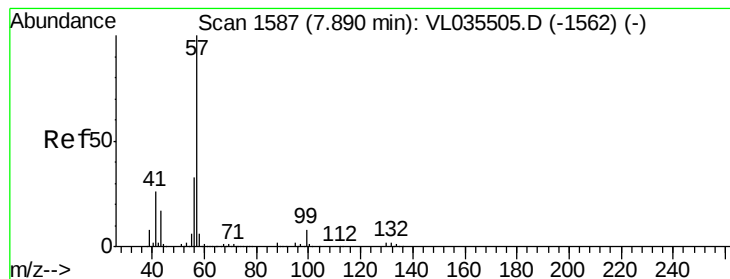
41 0.0 76.6 114.8#

100 38.8 33.8 50.6



Abundance Ion 69.10 (68.80 to 69.80): VL0
2000000 Ion 41.10 (40.80 to 41.80): VL0
Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 16.041 ppbv

RT: 7.91 min Scan# 1593

Delta R.T. 0.02 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

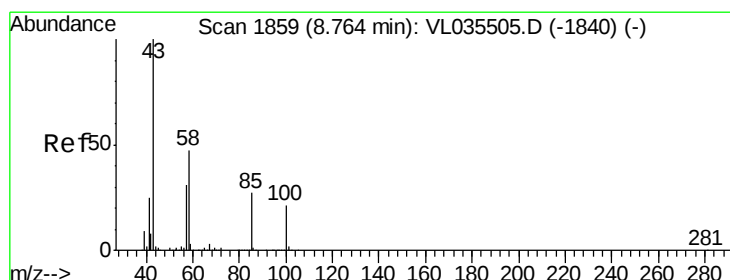
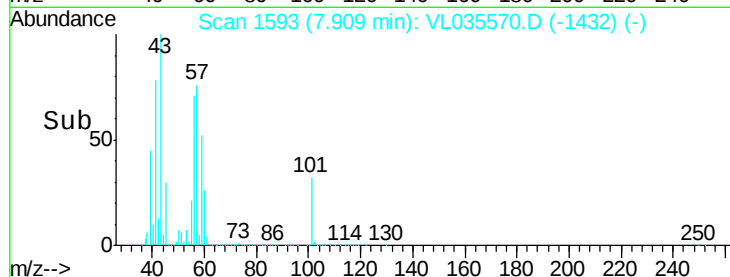
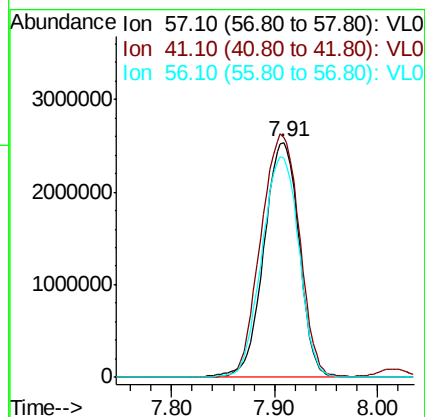
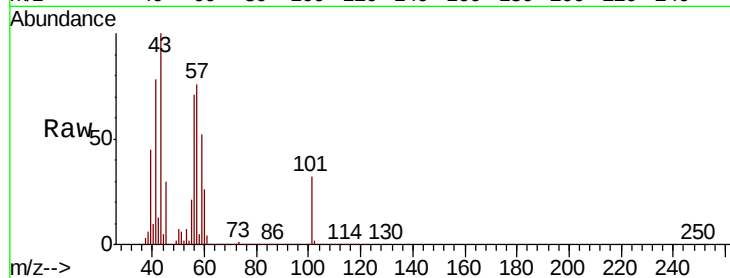
Tot Ion: 57 Resp: 5988822

Ion Ratio Lower Upper

57 100

41 113.6 20.5 30.7#

56 99.1 25.3 37.9#



#50

4-Methyl-2-Pentanone

Concen: 0.354 ppbv

RT: 8.75 min Scan# 1854

Delta R.T. -0.02 min

Lab File: VL035570.D

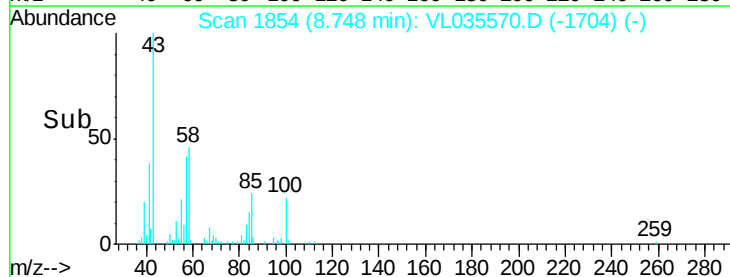
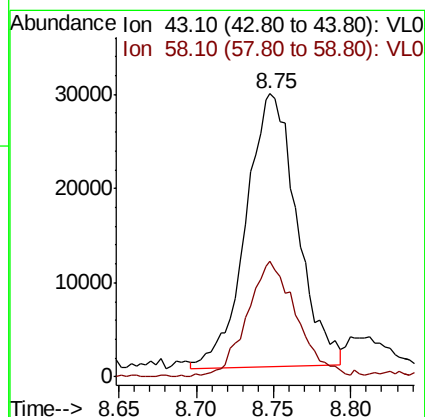
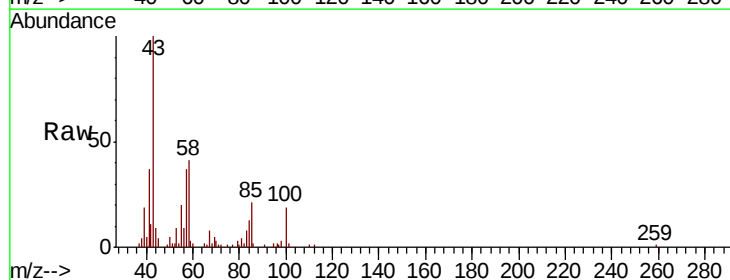
Acq: 9 Sep 2020 00:27

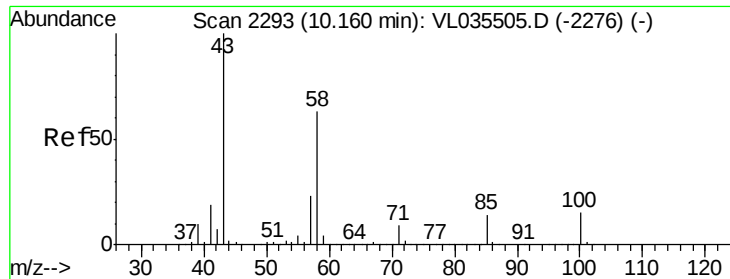
Tgt Ion: 43 Resp: 66726

Ion Ratio Lower Upper

43 100

58 41.9 37.4 56.0

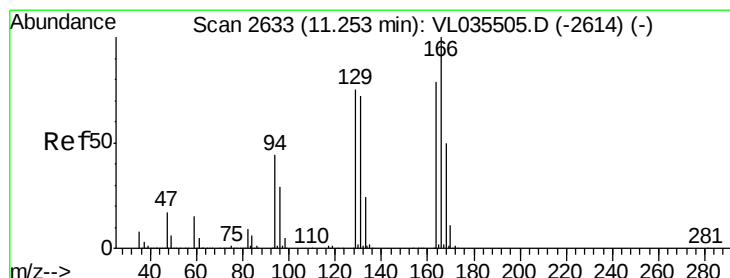
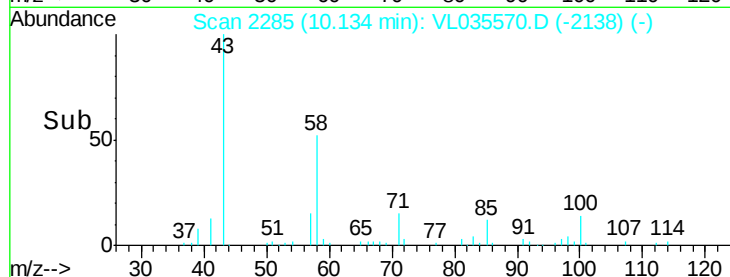
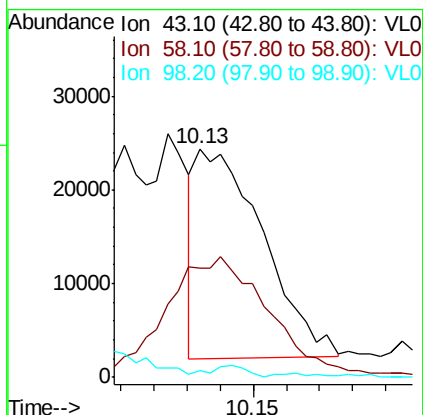
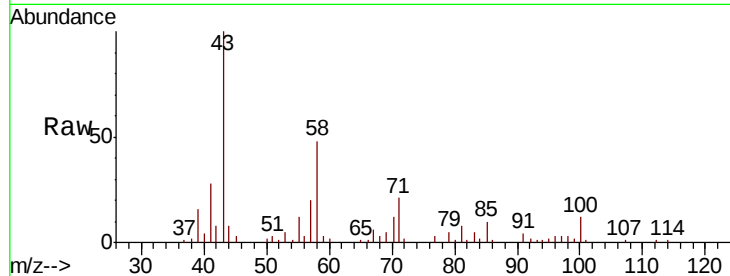




#51
2-Hexanone
Concen: 0.202 ppbv
RT: 10.13 min Scan# 2285
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

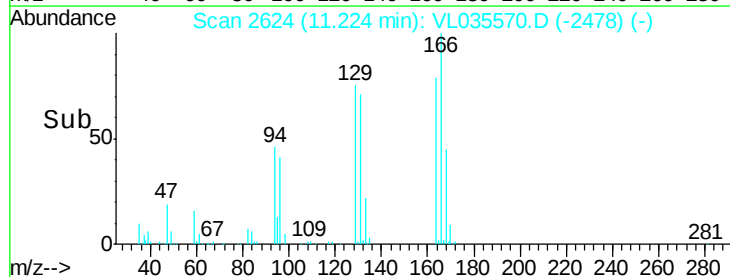
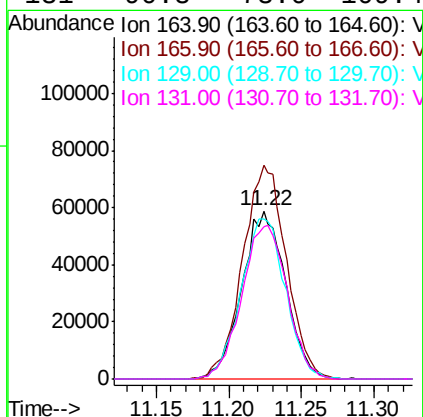
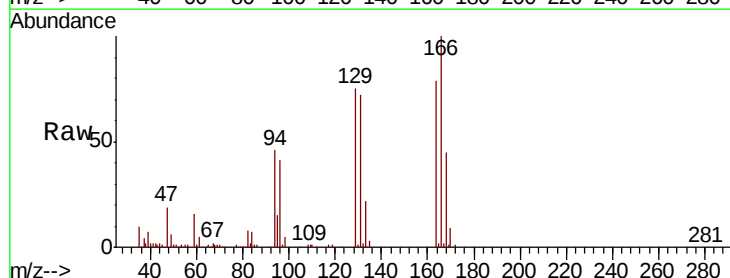
Instrument :
MSVOA_L
ClientSampled :
SS-7

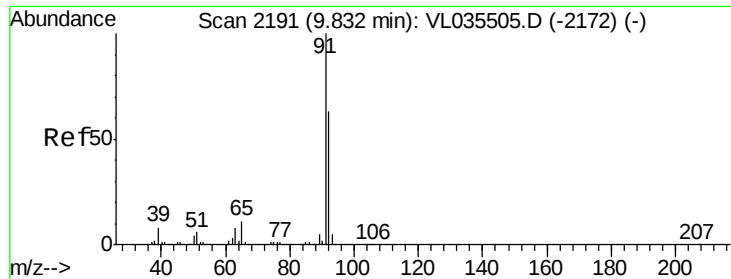
Tot Ion: 43 Resp: 31178
Ion Ratio Lower Upper
43 100
58 92.1 50.2 75.4#
98 0.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.746 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion: 164 Resp: 123580
Ion Ratio Lower Upper
164 100
166 126.7 100.9 151.3
129 94.6 75.3 112.9
131 90.8 73.0 109.4





#53

Toluene

Concen: 4.768 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

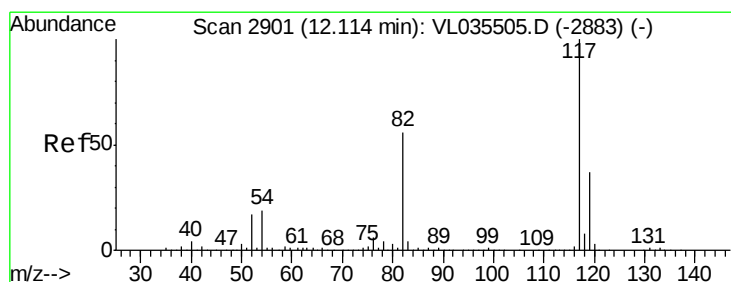
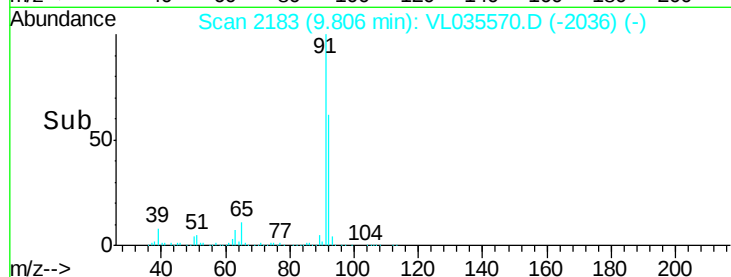
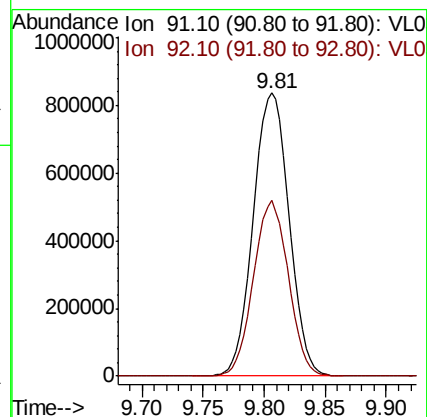
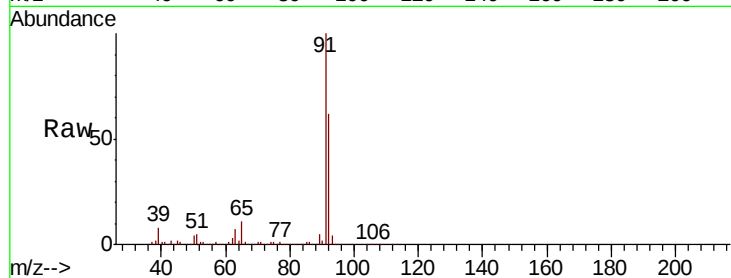
SS-7

Tot Ion: 91 Resp: 1701487

Ion Ratio Lower Upper

91 100

92 60.5 49.8 74.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

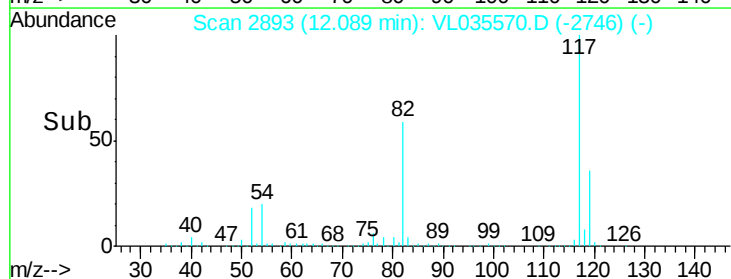
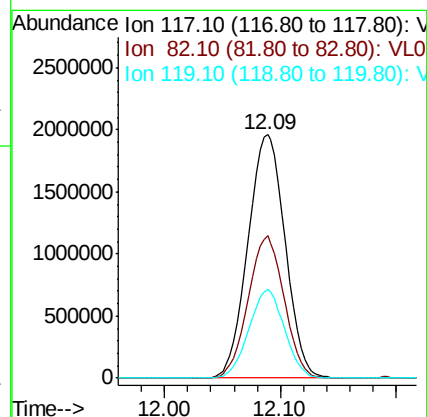
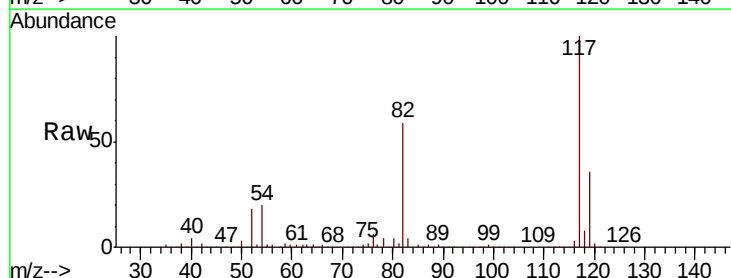
Tgt Ion: 117 Resp: 4380083

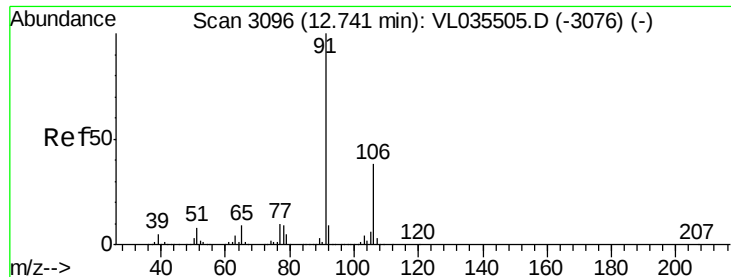
Ion Ratio Lower Upper

117 100

82 56.5 41.6 62.4

119 34.9 29.3 43.9





#58

Ethyl Benzene

Concen: 0.475 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

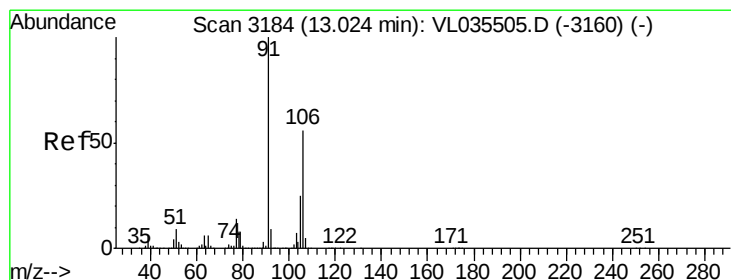
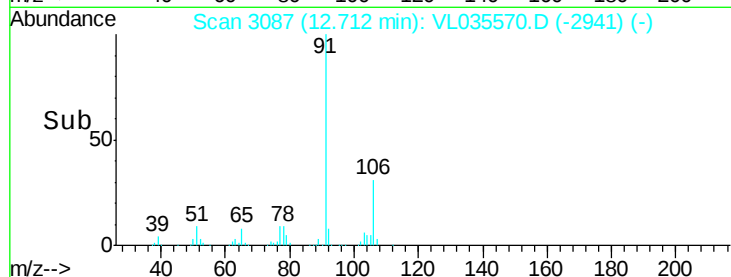
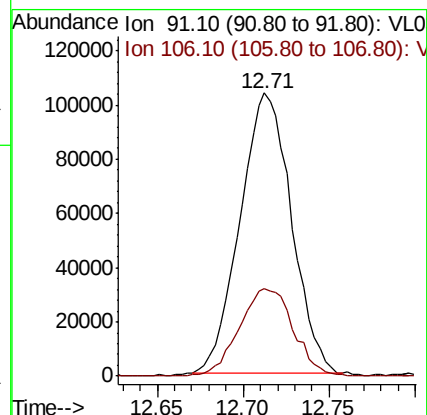
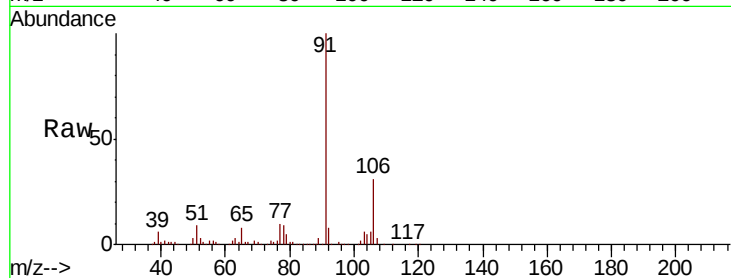
SS-7

Tot Ion: 91 Resp: 214486

Ion Ratio Lower Upper

91 100

106 31.0 30.3 45.5



#59

m/p-Xylene

Concen: 1.583 ppbv

RT: 12.97 min Scan# 3167

Delta R.T. -0.05 min

Lab File: VL035570.D

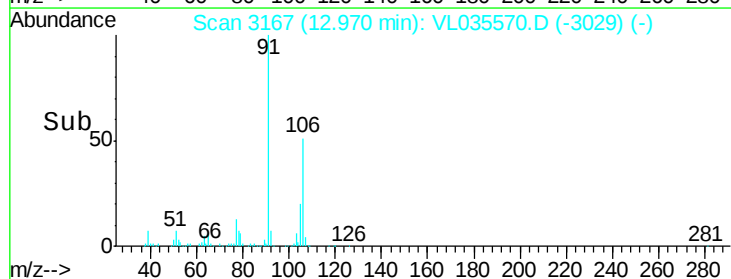
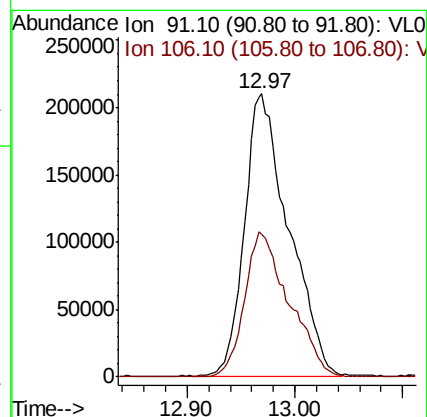
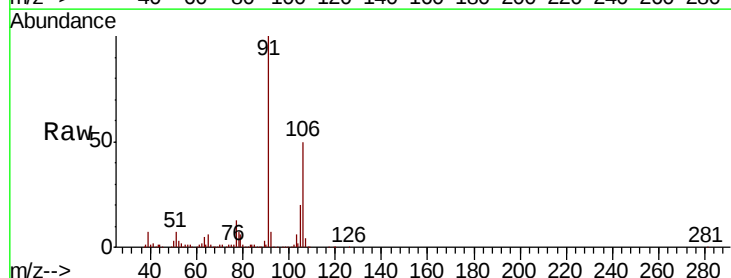
Acq: 9 Sep 2020 00:27

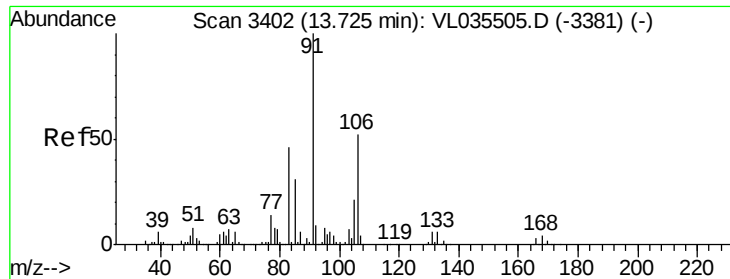
Tgt Ion: 91 Resp: 597497

Ion Ratio Lower Upper

91 100

106 51.7 43.4 65.2

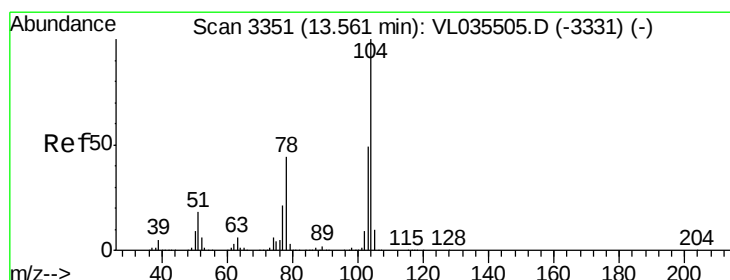
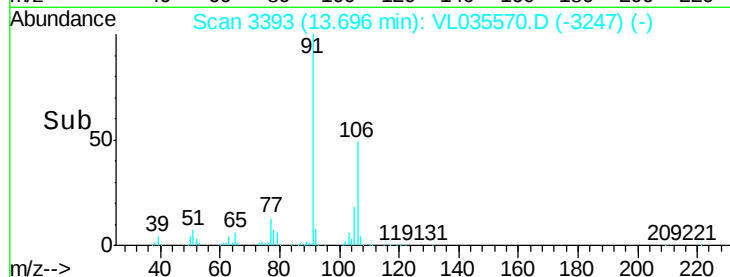
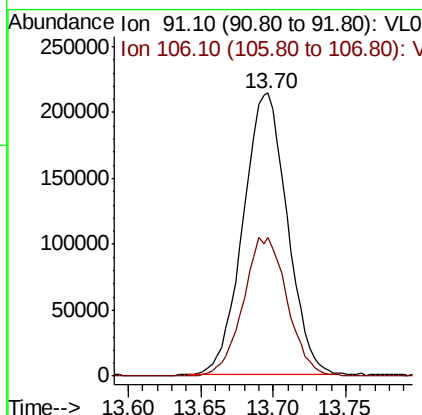
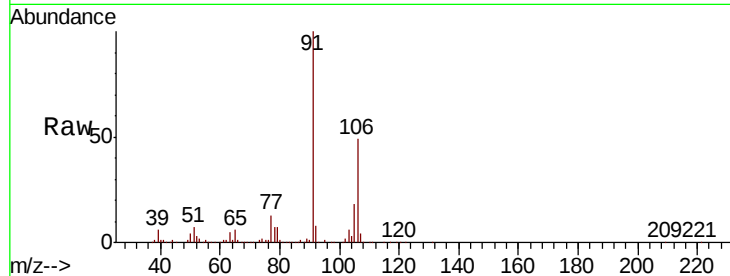




#60
o-Xylene
Concen: 1.196 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

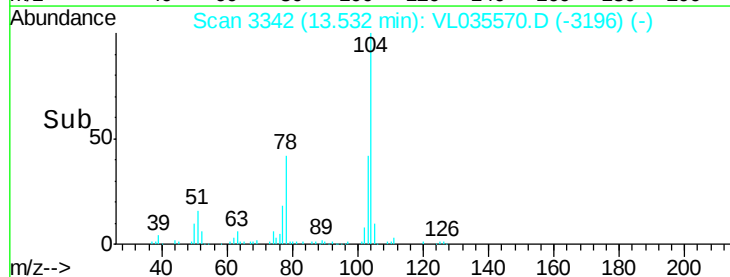
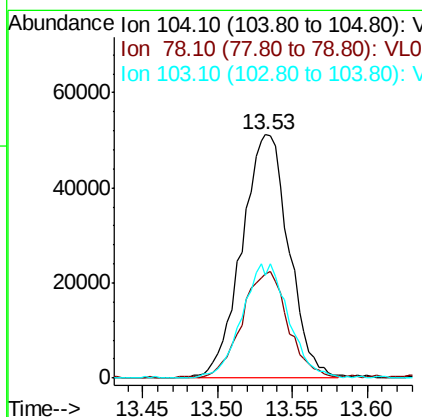
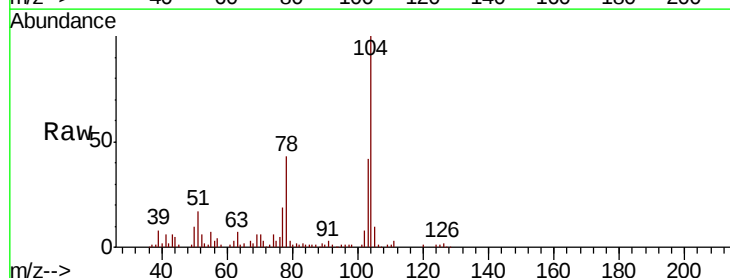
Instrument :
MSVOA_L
ClientSampleId :
SS-7

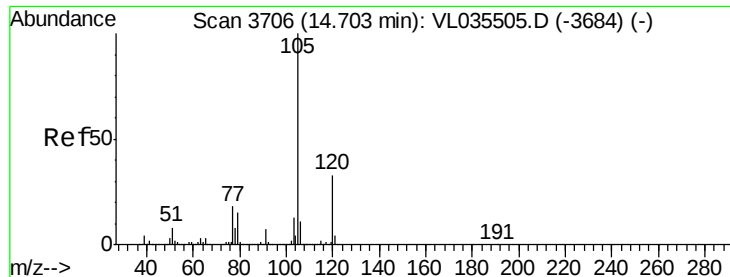
Tot Ion: 91 Resp: 454637
Ion Ratio Lower Upper
91 100
106 49.2 25.8 77.4



#61
Styrene
Concen: 0.385 ppbv
RT: 13.53 min Scan# 3342
Delta R.T. -0.03 min
Lab File: VL035570.D
Acq: 9 Sep 2020 00:27

Tgt Ion:104 Resp: 111841
Ion Ratio Lower Upper
104 100
78 43.4 34.8 52.2
103 46.5 38.2 57.4





#62

Isopropylbenzene

Concen: 0.718 ppbv

RT: 14.67 min Scan# 3697

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

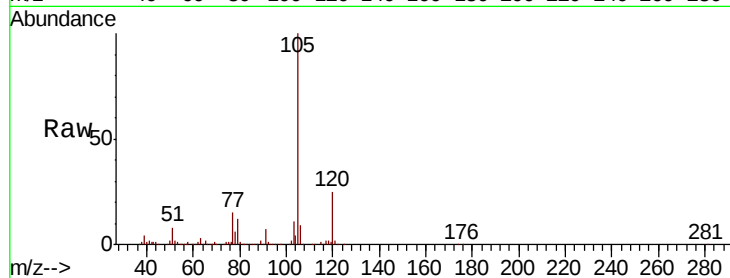
SS-7

Tot Ion:105 Resp: 438234

Ion Ratio Lower Upper

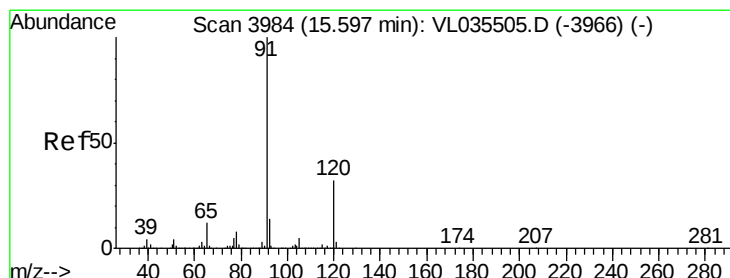
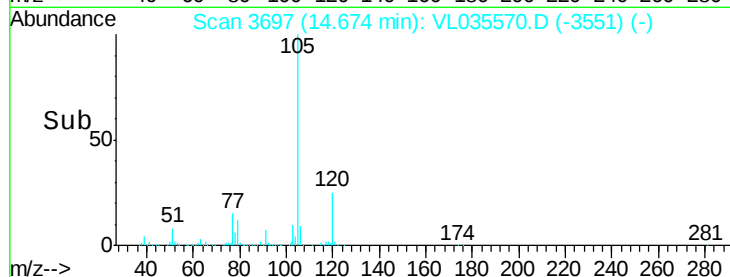
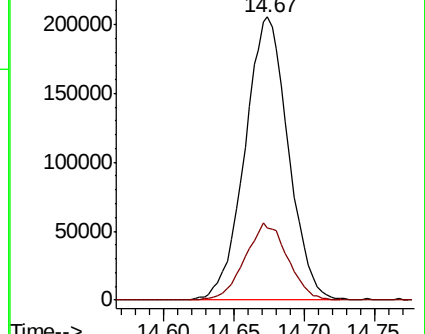
105 100

120 27.1 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 2.004 ppbv

RT: 15.57 min Scan# 3976

Delta R.T. -0.03 min

Lab File: VL035570.D

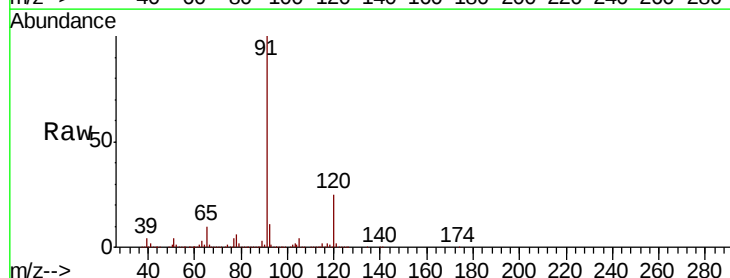
Acq: 9 Sep 2020 00:27

Tgt Ion:120 Resp: 373427

Ion Ratio Lower Upper

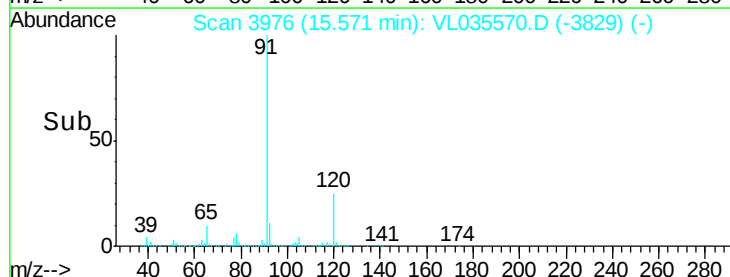
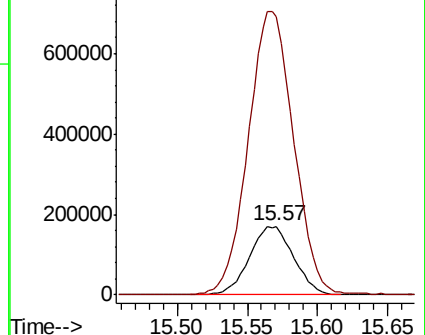
120 100

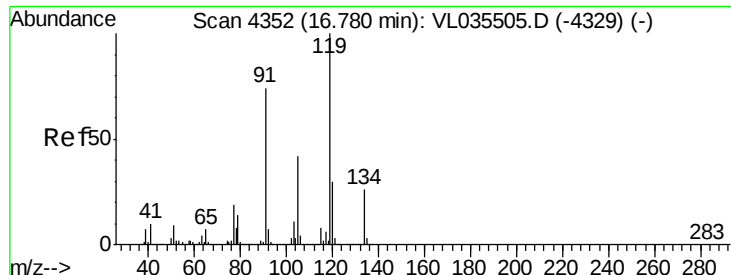
91 425.1 279.4 419.0#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.887 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

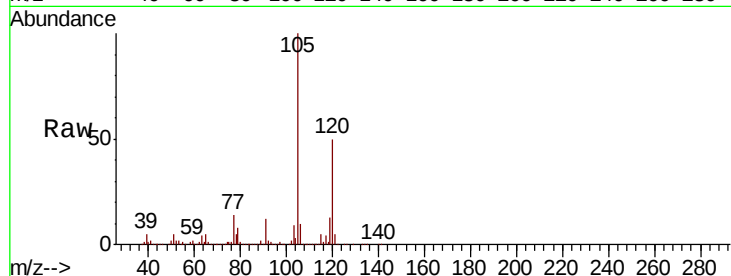
Tot Ion:119 Resp: 503537

Ion Ratio Lower Upper

119 100

91 91.3 58.6 87.8#

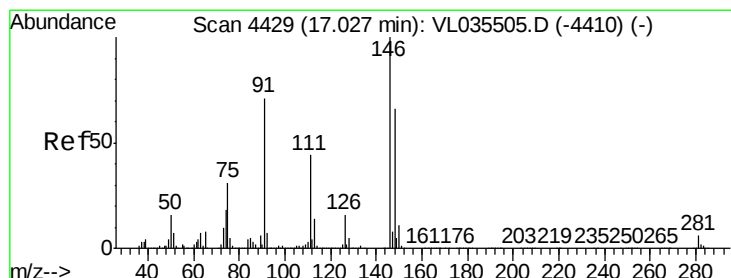
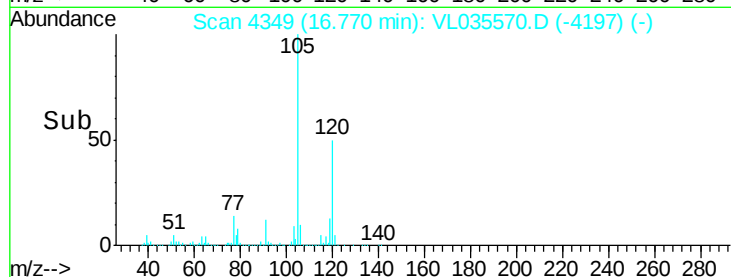
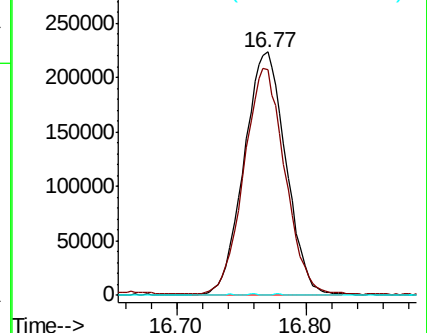
134 0.9 18.9 28.3#



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: 3.235 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.26 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

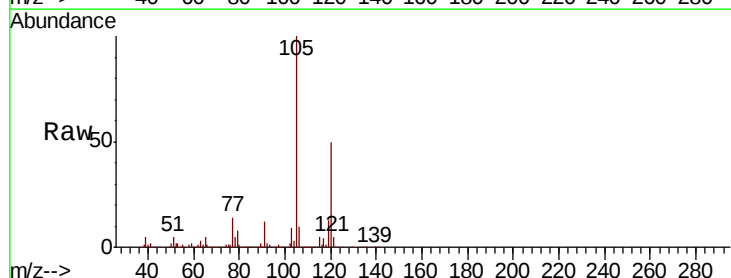
Tgt Ion: 91 Resp: 456294

Ion Ratio Lower Upper

91 100

126 0.0 17.2 25.8#

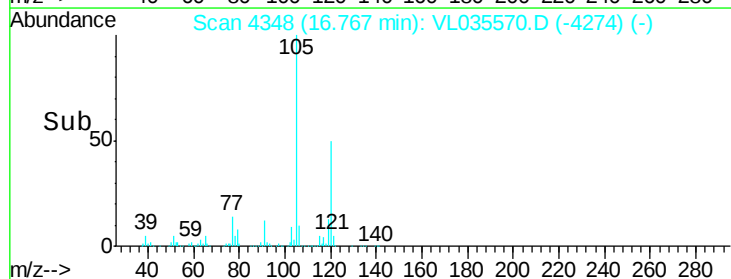
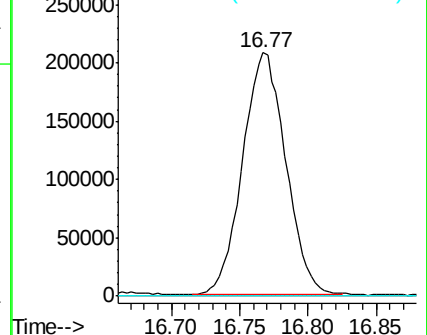
128 0.0 5.5 8.3#

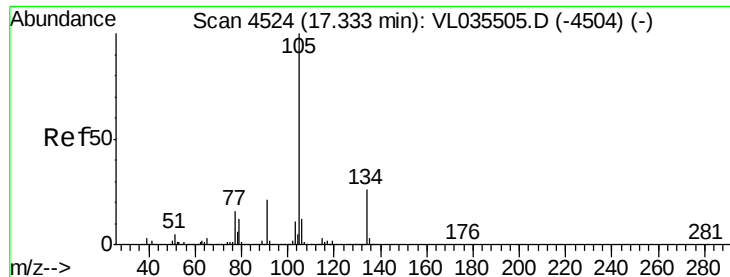


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 0.152 ppbv

RT: 17.30 min Scan# 4514

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

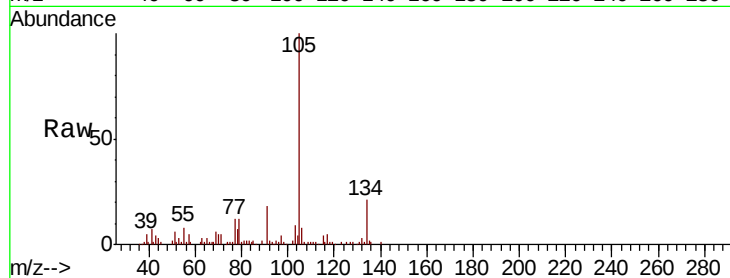
SS-7

Tot Ion:105 Resp: 114967

Ion Ratio Lower Upper

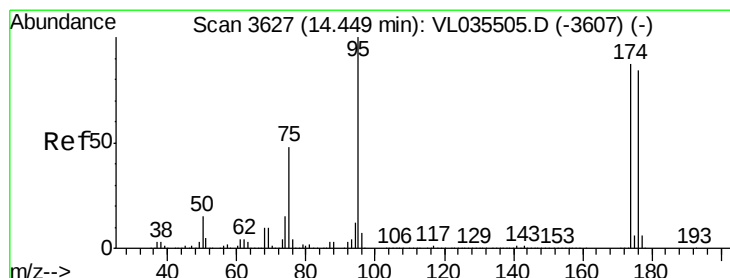
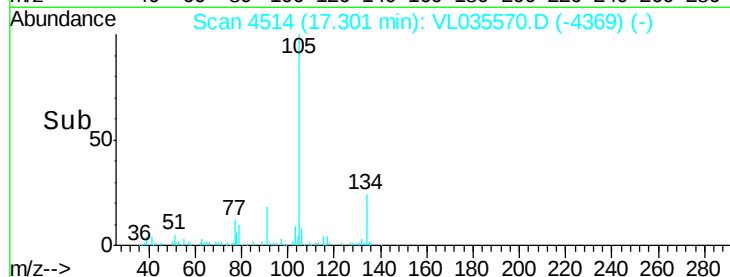
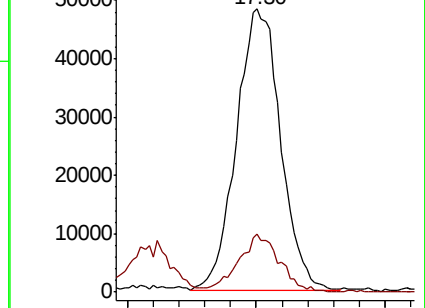
105 100

134 19.2 19.1 28.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.700 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

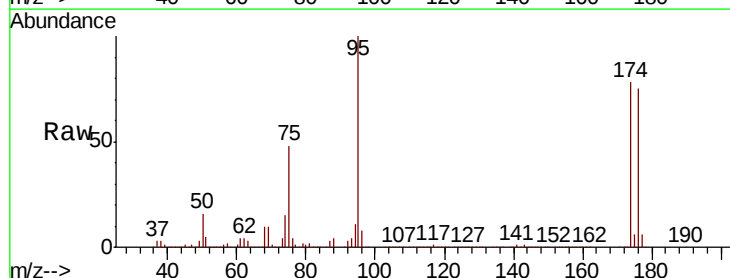
Tgt Ion: 95 Resp: 3328355

Ion Ratio Lower Upper

95 100

174 78.5 69.6 104.4

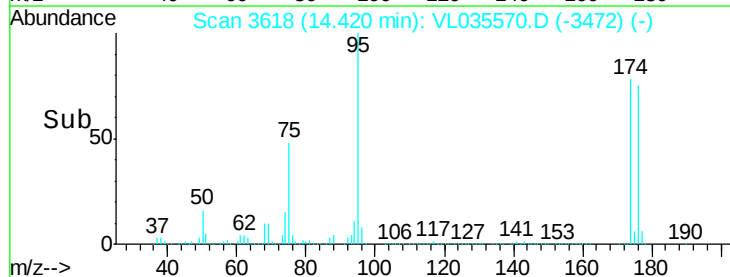
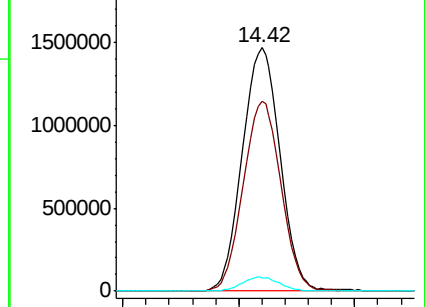
175 5.8 5.1 7.7

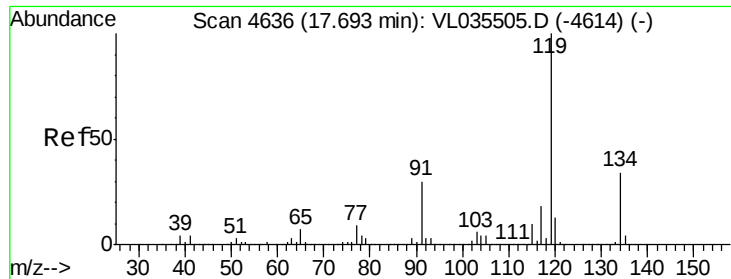


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

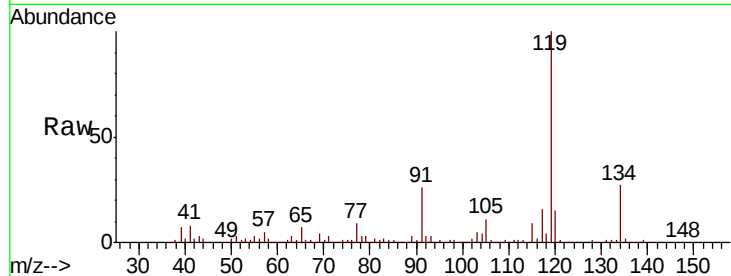




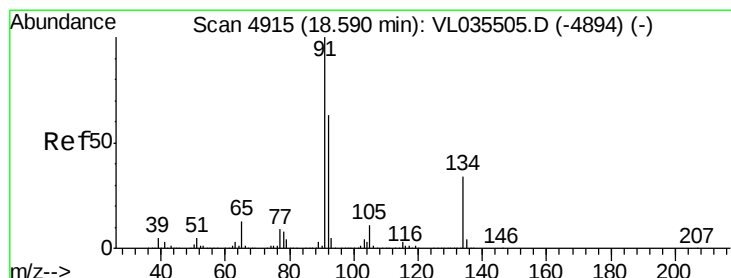
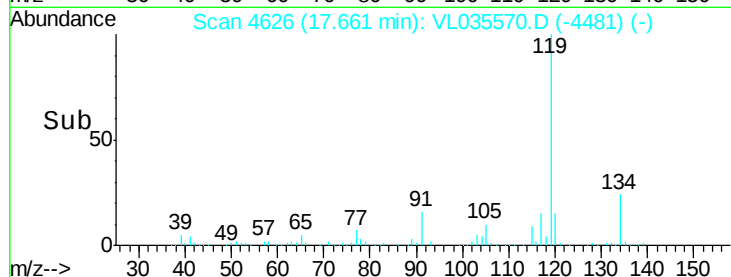
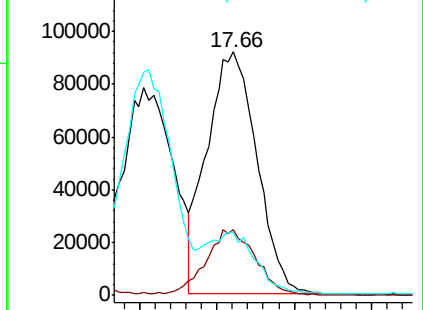
#69
 p-Isopropyltoluene
 Concen: 0.311 ppbv
 RT: 17.66 min Scan# 4626
 Delta R.T. -0.03 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Instrument :
 MSVOA_L
 ClientSampled :
 SS-7

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.3	25.0	37.4
91	24.7	22.3	33.5

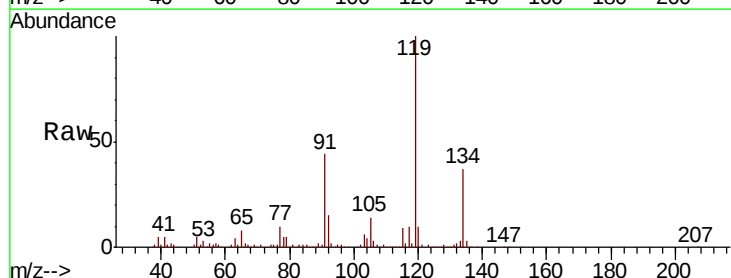


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

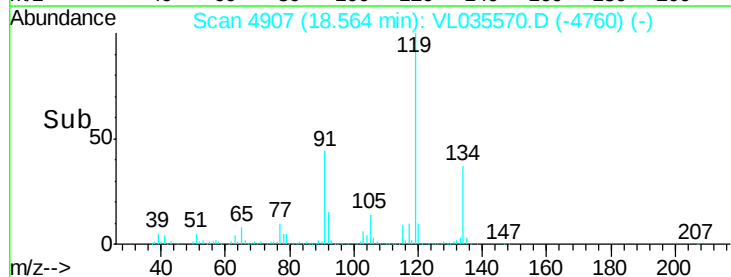
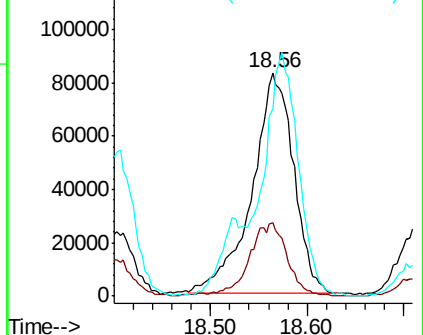


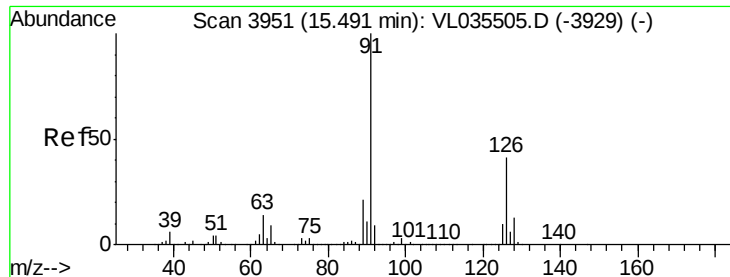
#70
 n-Butylbenzene
 Concen: 0.390 ppbv
 RT: 18.56 min Scan# 4907
 Delta R.T. -0.03 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Tgt Ion	Ratio	Lower	Upper
91	100		
92	30.2	47.3	70.9#
134	110.4	24.6	37.0#



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

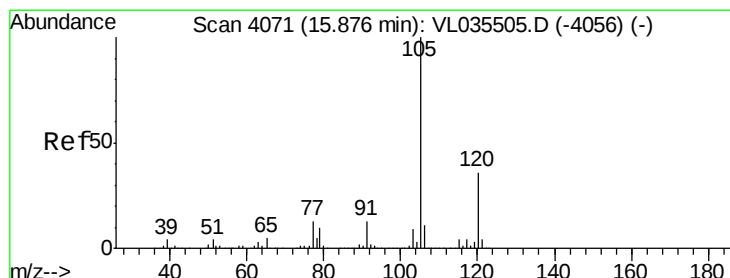
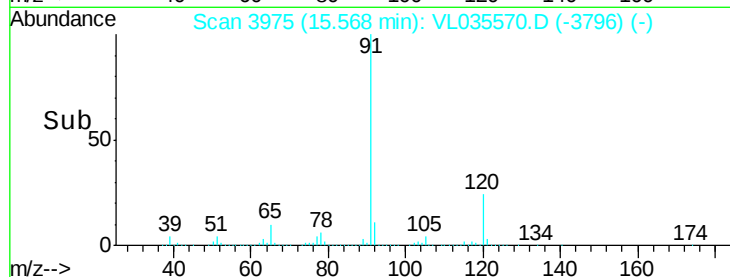
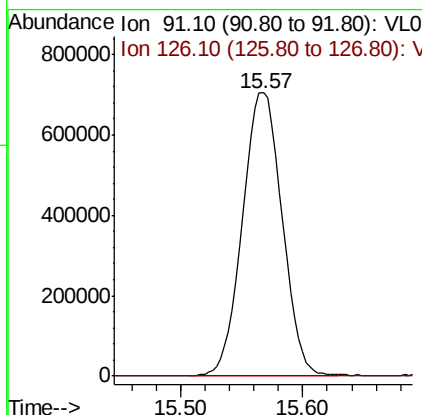
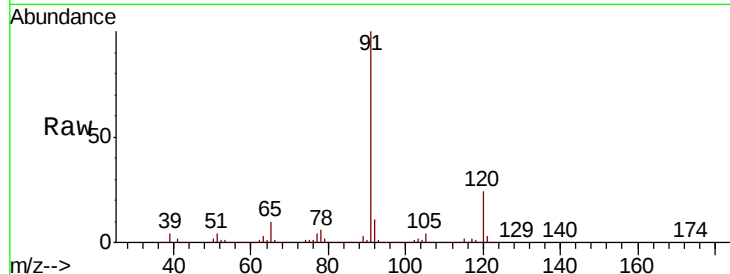




#71
 2-Chlorotoluene
 Concen: 3.551 ppbv
 RT: 15.57 min Scan# 3975
 Delta R.T. 0.08 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

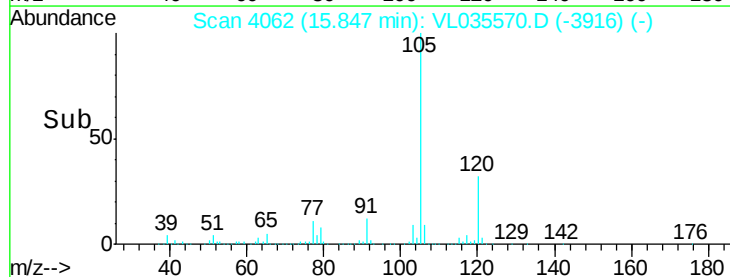
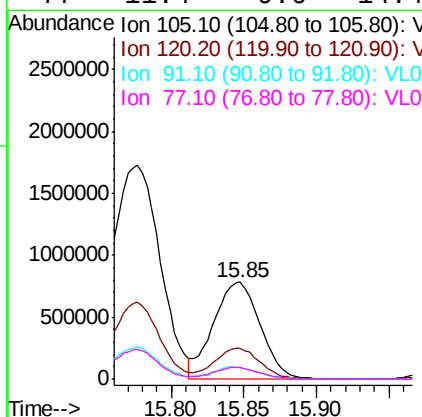
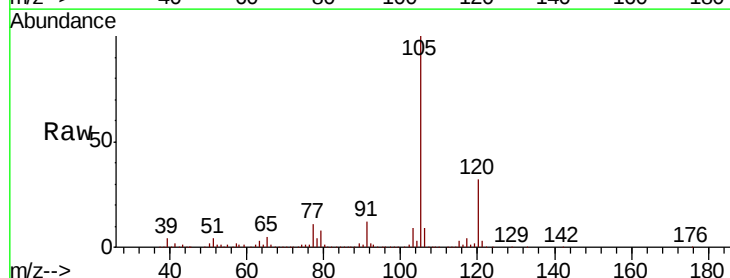
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7

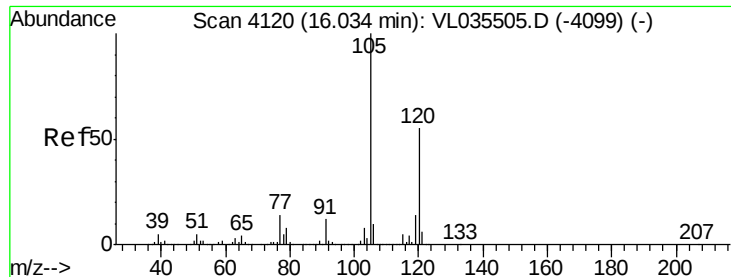
Tot Ion: 91 Resp: 1578837
 Ion Ratio Lower Upper
 91 100
 126 0.1 15.6 62.6#



#72
 4-Ethyltoluene
 Concen: 3.613 ppbv
 RT: 15.85 min Scan# 4062
 Delta R.T. -0.03 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Tgt Ion: 105 Resp: 1746098
 Ion Ratio Lower Upper
 105 100
 120 31.1 27.4 41.2
 91 12.4 9.7 14.5
 77 11.4 9.6 14.4

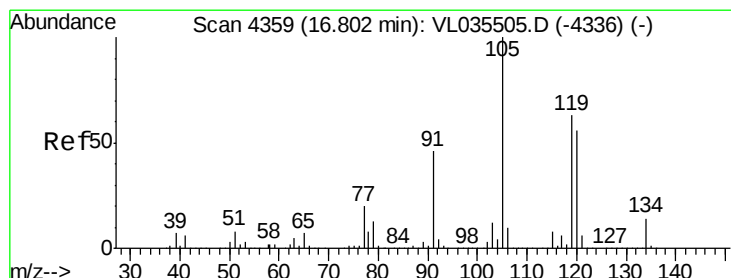
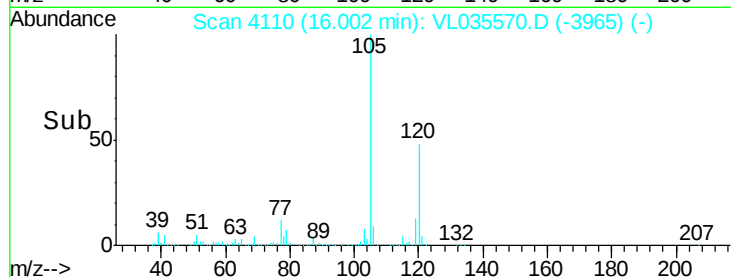
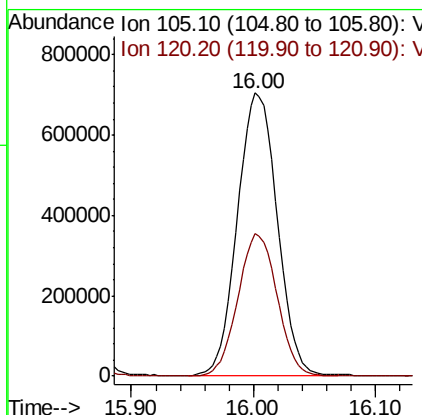
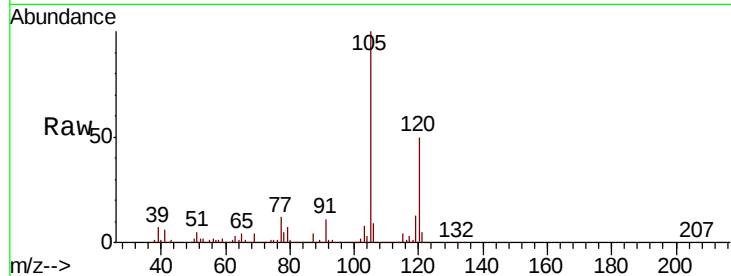




#73
 1,3,5-Trimethylbenzene
 Concen: 3.540 ppbv
 RT: 16.00 min Scan# 4110
 Delta R.T. -0.03 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

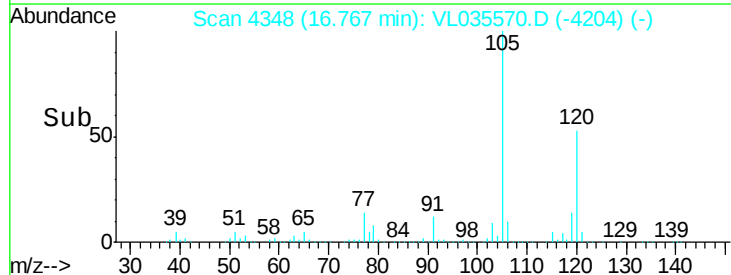
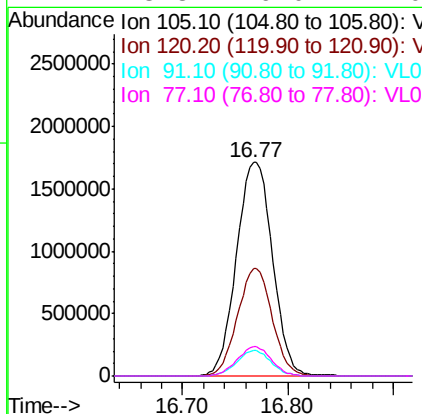
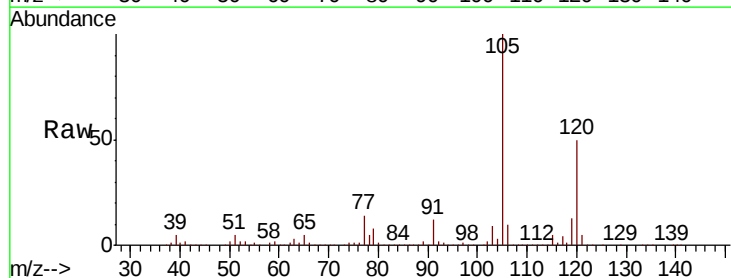
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-7

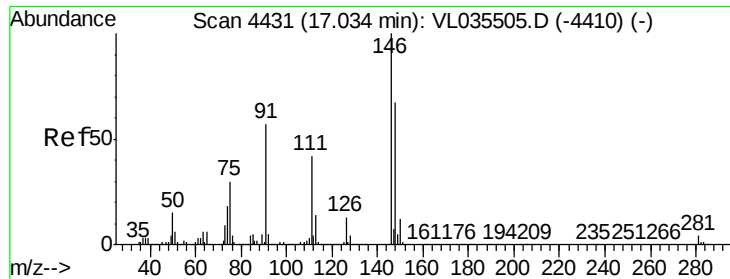
Tot Ion:105 Resp: 1582333
 Ion Ratio Lower Upper
 105 100
 120 50.4 44.2 66.2



#74
 1,2,4-Trimethylbenzene
 Concen: 8.264 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. -0.04 min
 Lab File: VL035570.D
 Acq: 9 Sep 2020 00:27

Tgt Ion:105 Resp: 4056357
 Ion Ratio Lower Upper
 105 100
 120 50.2 44.4 66.6
 91 12.1 37.1 55.7#
 77 13.8 16.0 24.0#





#75

1,3-Dichlorobenzene

Concen: 0.397 ppbv

RT: 17.15 min Scan# 4466

Delta R.T. 0.11 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampled :

SS-7

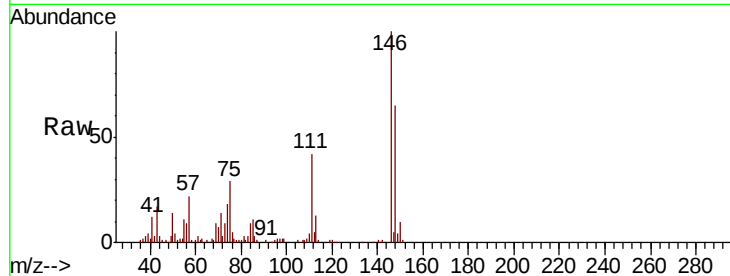
Tot Ion:146 Resp: 144490

Ion Ratio Lower Upper

146 100

111 44.0 20.7 62.1

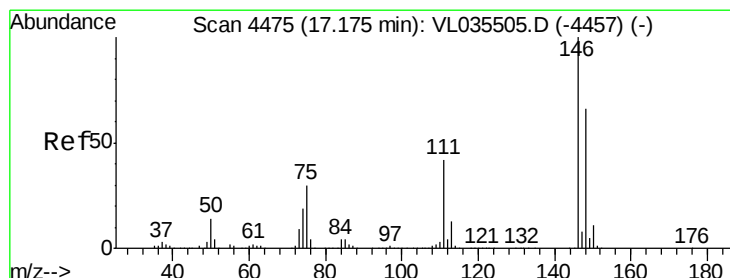
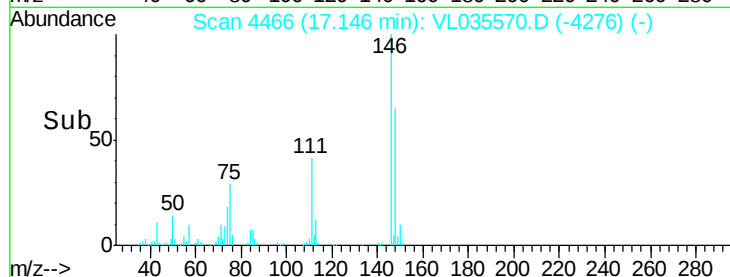
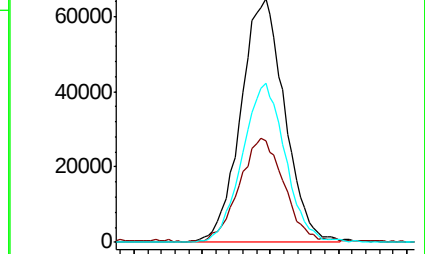
148 63.9 33.0 98.9



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: 0.403 ppbv

RT: 17.15 min Scan# 4466

Delta R.T. -0.03 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

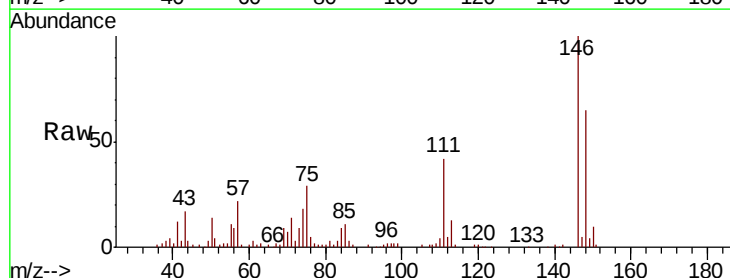
Tgt Ion:146 Resp: 144490

Ion Ratio Lower Upper

146 100

111 43.4 20.0 60.0

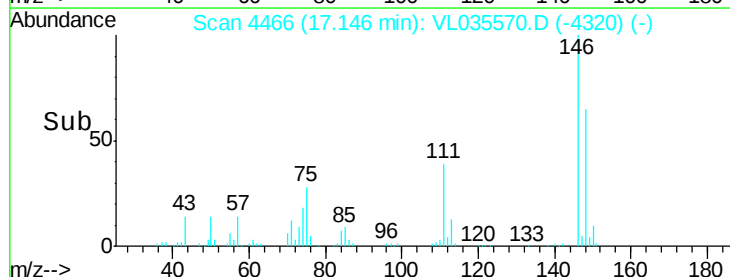
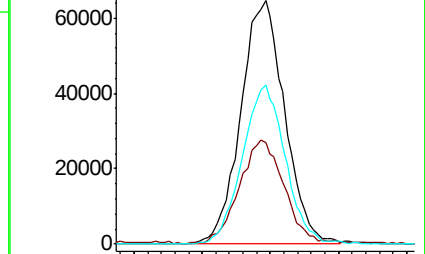
148 63.9 33.2 99.6

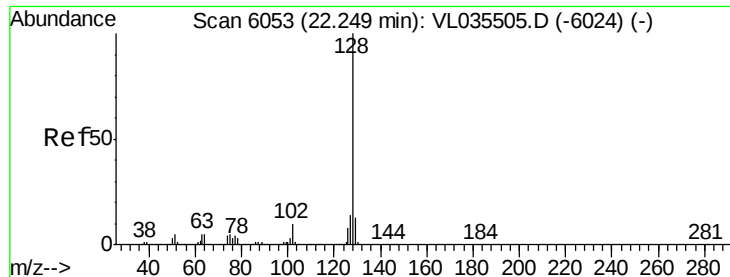


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#79

Naphthalene

Concen: 1.280 ppbv

RT: 22.21 min Scan# 6042

Delta R.T. -0.04 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

Instrument :

MSVOA_L

ClientSampleId :

SS-7

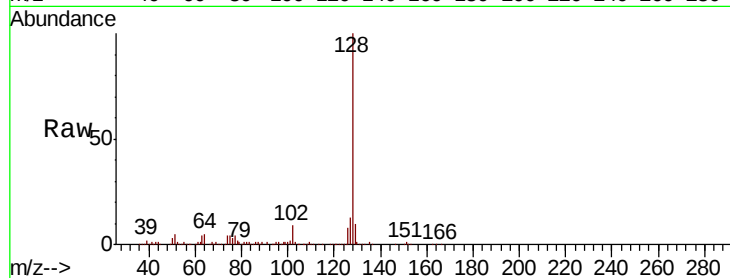
Tot Ion:128 Resp: 697234

Ion Ratio Lower Upper

128 100

127 12.9 11.4 17.2

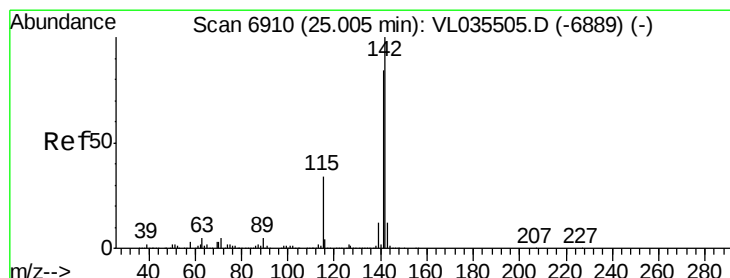
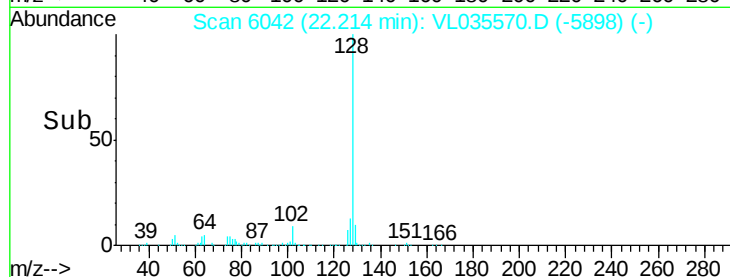
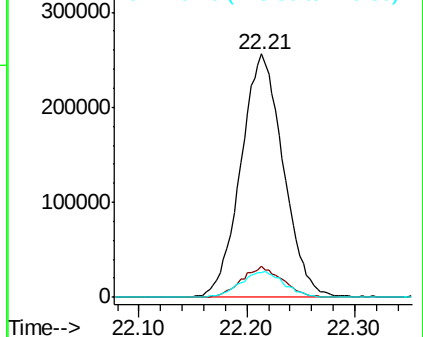
129 9.9 10.5 15.7#



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.059 ppbv

RT: 24.99 min Scan# 6906

Delta R.T. -0.01 min

Lab File: VL035570.D

Acq: 9 Sep 2020 00:27

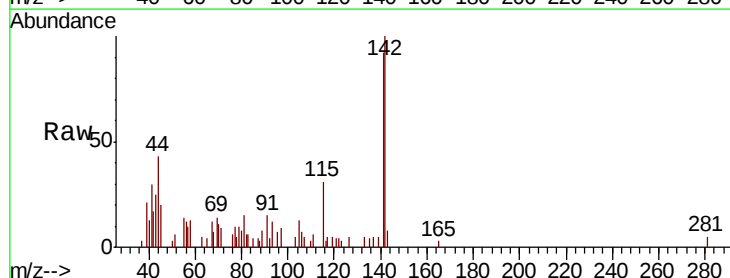
Tgt Ion:142 Resp: 11014

Ion Ratio Lower Upper

142 100

141 92.3 67.6 101.4

115 37.4 25.8 38.8



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

