

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035507.D
 Acq On : 27 Aug 2020 3:29
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: Aug 27 05:35:36 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 05:32:47 2020
 QLast Update : Thu Aug 27 05:32:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1088661	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4710627	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4802921	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	3442439	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	214089	1.075	ppbv 96
3) Chlorodifluoromethane	2.99	51	125507	1.021	ppbv 99
4) Chloromethane	3.14	50	66393	1.038	ppbv 93
5) Vinyl Chloride	3.26	62	76123	1.012	ppbv 93
6) Bromomethane	3.48	94	67683	0.981	ppbv 89
7) Chloroethane	3.56	64	27938	0.972	ppbv 97
8) Dichlorotetrafluoroethane	3.19	85	250078	1.058	ppbv 99
9) Propene	3.01	41	46996	0.983	ppbv 100
10) Heptane	8.14	43	127265	0.999	ppbv 100
11) Trichlorofluoromethane	3.96	101	291825	1.016	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.49	101	216433	1.010	ppbv 100
13) Ethanol	3.62	45	12017	0.896	ppbv 92
14) Bromoethene	3.74	108	90243	0.968	ppbv 100
15) Acetone	3.86	43	126858	1.086	ppbv 93
16) 1,3-Butadiene	3.33	39	44759	0.965	ppbv 97
17) tert-Butyl alcohol	4.31	59	148785	1.001	ppbv 100
18) 1,1-Dichloroethene	4.30	96	92239	0.972	ppbv 97
19) Isopropyl Alcohol	3.98	45	72437	0.960	ppbv # 93
20) Methylene Chloride	4.35	84	100286	0.806	ppbv 100
21) Allyl Chloride	4.42	41	54045	0.918	ppbv 96
22) trans-1,2-Dichloroethene	4.90	96	97280	0.971	ppbv 95
23) Vinyl Acetate	5.09	43	146141	0.951	ppbv 98
24) 1,1-Dichloroethane	5.02	63	161622	1.002	ppbv 99
25) Ethyl Acetate	5.70	43	221989	1.004	ppbv 98
26) Hexane	5.70	57	124658	0.927	ppbv 98
27) Carbon Disulfide	4.56	76	159210	0.891	ppbv 96
28) Methyl tert-Butyl Ether	5.05	73	209111	0.958	ppbv 100
29) Chloroform	5.76	83	250956	0.984	ppbv 99
30) Cyclohexane	7.15	84	127049	0.941	ppbv 97
31) cis-1,2-Dichloroethene	5.56	61	121347	0.956	ppbv 97
32) 1,1,1-Trichloroethane	6.53	97	229236	0.985	ppbv 99
34) 2-Butanone	5.27	43	143218	1.029	ppbv 99
35) Carbon Tetrachloride	7.03	117	232624	1.015	ppbv 97
36) Benzene	6.91	78	316831	1.022	ppbv 96
37) 1,2-Dichloroethane	6.32	62	149476	1.019	ppbv 100
38) Trichloroethene	7.85	130	166823	0.974	ppbv 97
39) 1,2-Dichloropropane	7.63	63	106585	1.027	ppbv 96
40) 1,4-Dioxane	7.88	88	52799	1.033	ppbv 71
41) Tetrahydrofuran	6.08	42	71333	0.945	ppbv 98
42) Bromodichloromethane	7.81	83	232616	0.971	ppbv 99
43) Methyl Methacrylate	8.04	69	115349	0.961	ppbv 98

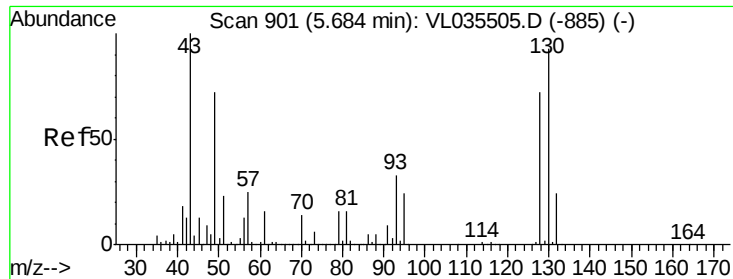
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035507.D
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 VSTDIC001

Quant Time: Aug 27 05:35:36 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 05:32:47 2020
 QLast Update : Thu Aug 27 05:32:47 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	429380	1.058	ppbv	99
45) t-1,3-Dichloropropene	9.30	75	102880	0.838	ppbv	98
46) cis-1,3-Dichloropropene	8.72	75	135000	0.887	ppbv	93
47) 1,1,2-Trichloroethane	9.50	97	156716	1.010	ppbv	97
48) Dibromochloromethane	10.33	129	225744	0.917	ppbv	99
49) Bromoform	13.07	173	195765	0.858	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	207713	1.035	ppbv	98
51) 2-Hexanone	10.18	43	160644	0.977	ppbv #	98
52) Tetrachloroethene	11.25	164	176425	0.981	ppbv	99
53) Toluene	9.83	91	395834	1.009	ppbv	97
54) 1,2-Dibromoethane	10.64	107	244245	0.992	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.15	131	197898	0.987	ppbv #	1
57) Chlorobenzene	12.17	112	388163	1.087	ppbv	99
58) Ethyl Benzene	12.74	91	527034	1.036	ppbv	91
59) m/p-Xylene	13.02	91	19885	0.046	ppbv #	1
60) o-Xylene	13.72	91	451290	1.059	ppbv	97
61) Styrene	13.56	104	324806	0.990	ppbv	98
62) Isopropylbenzene	14.70	105	747774	1.086	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.71	83	322657	1.036	ppbv	99
64) n-propylbenzene	15.60	120	215104	1.026	ppbv	75
65) tert-Butylbenzene	16.78	119	685195	1.048	ppbv	96
66) Benzyl Chloride	17.02	91	116985	0.735	ppbv	95
67) sec-Butylbenzene	17.33	105	934390	1.075	ppbv	93
69) p-Isopropyltoluene	17.69	119	804817	1.062	ppbv	93
70) n-Butylbenzene	18.59	91	774753	1.065	ppbv	93
71) 2-Chlorotoluene	15.48	91	525848	1.055	ppbv	95
72) 4-Ethyltoluene	15.87	105	571669	1.052	ppbv	96
73) 1,3,5-Trimethylbenzene	16.03	105	528595	1.052	ppbv	92
74) 1,2,4-Trimethylbenzene	16.80	105	594915	1.079	ppbv	96
75) 1,3-Dichlorobenzene	17.03	146	435373	1.054	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	423670	1.027	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	415482	1.021	ppbv	99
78) Hexachloro-1,3-Butadiene	23.42	225	268063	0.960	ppbv	97
79) Naphthalene	22.25	128	606220	0.884	ppbv #	94
80) Naphthalene, 2-methyl-	25.01	142	168941	0.626	ppbv	100
81) 1,2,4-Trichlorobenzene	21.98	180	371185	0.920	ppbv	98

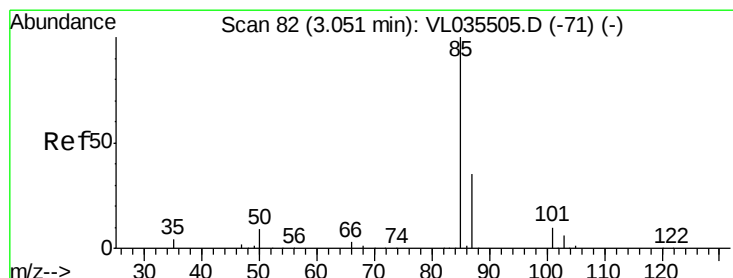
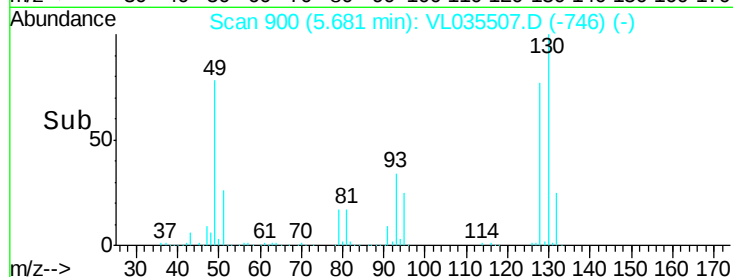
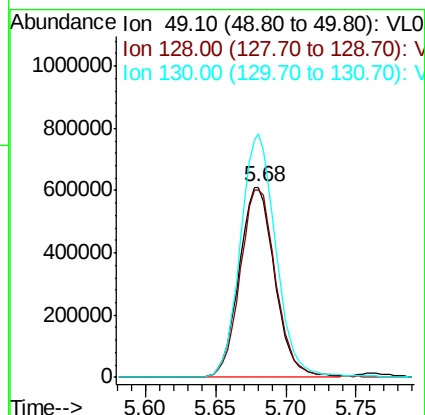
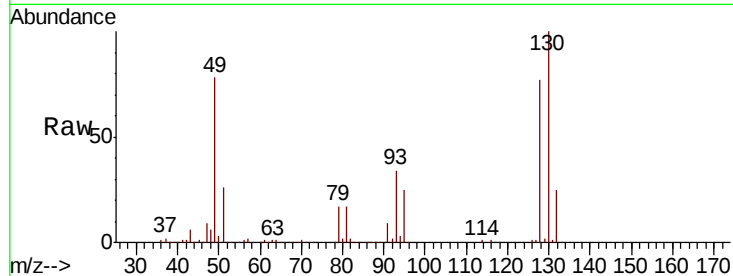
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

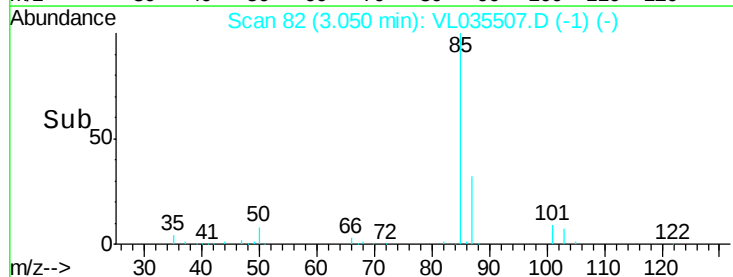
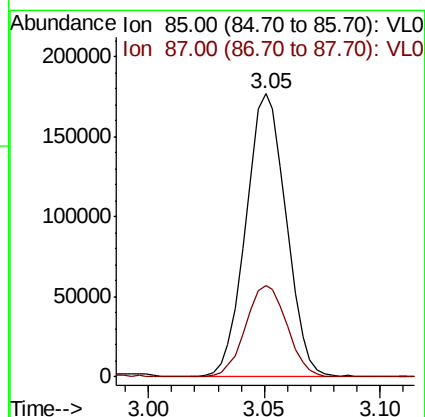
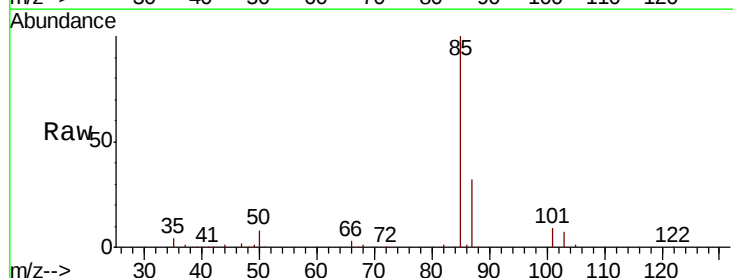
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

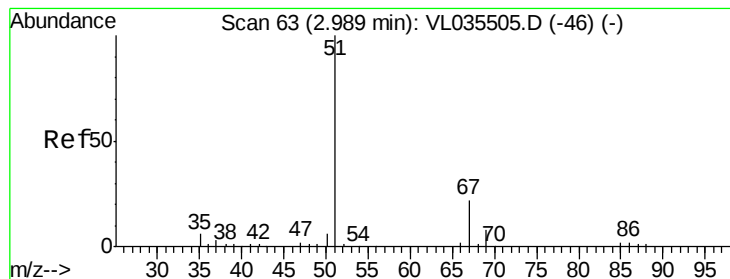
Tot Ion: 49 Resp: 1088661
 Ion Ratio Lower Upper
 49 100
 128 98.9 50.0 150.1
 130 127.7 64.4 193.2



#2
 Dichlorodifluoromethane
 Concen: 1.075 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Tgt Ion: 85 Resp: 214089
 Ion Ratio Lower Upper
 85 100
 87 32.5 28.0 42.0





#3

Chlorodifluoromethane

Concen: 1.021 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

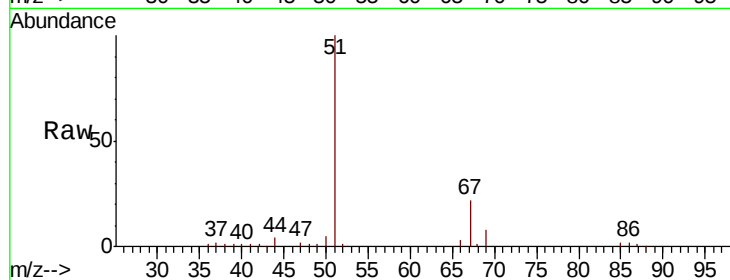
VSTDIC001

Tot Ion: 51 Resp: 125507

Ion Ratio Lower Upper

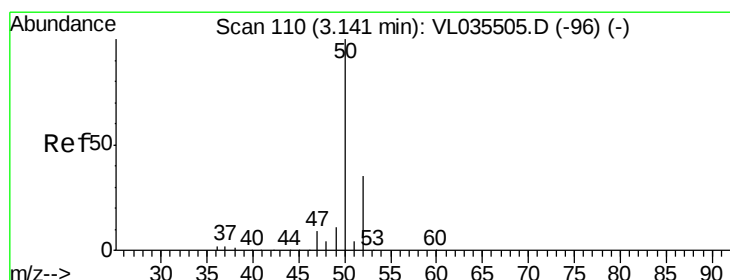
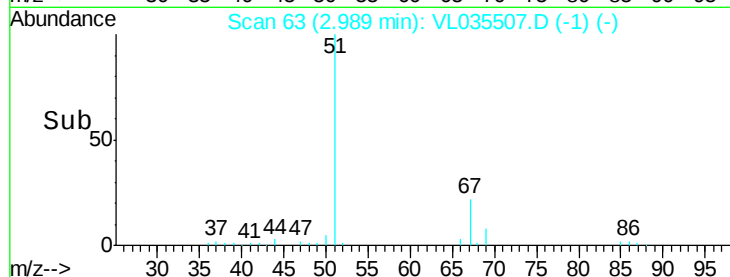
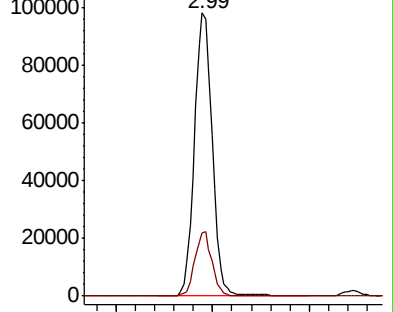
51 100

67 21.8 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: 1.038 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL035507.D

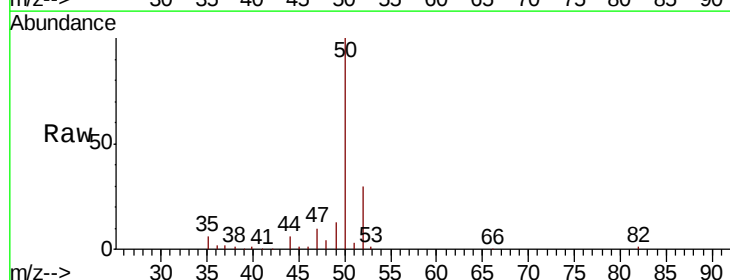
Acq: 27 Aug 2020 3:29

Tgt Ion: 50 Resp: 66393

Ion Ratio Lower Upper

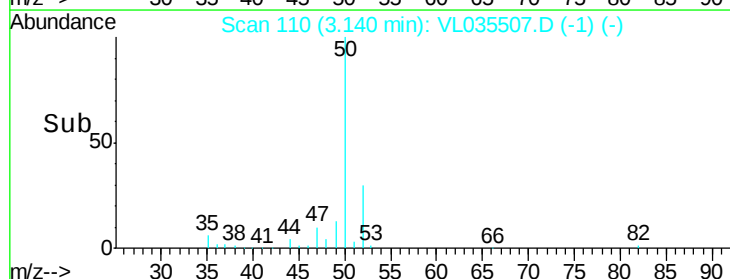
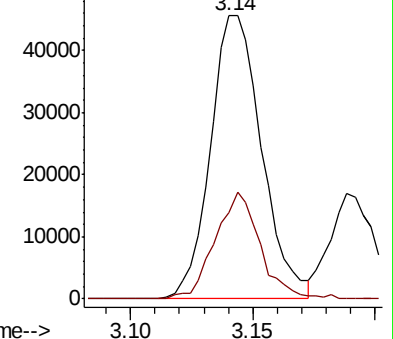
50 100

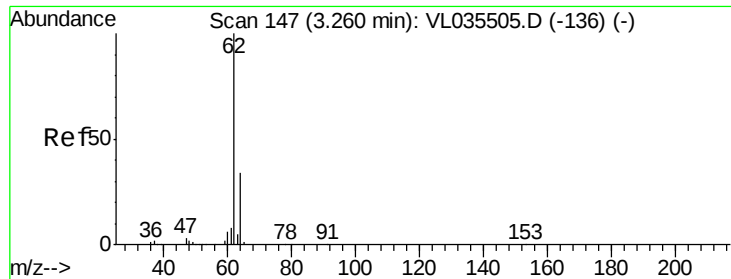
52 30.4 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.012 ppbv

RT: 3.26 min Scan# 147

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

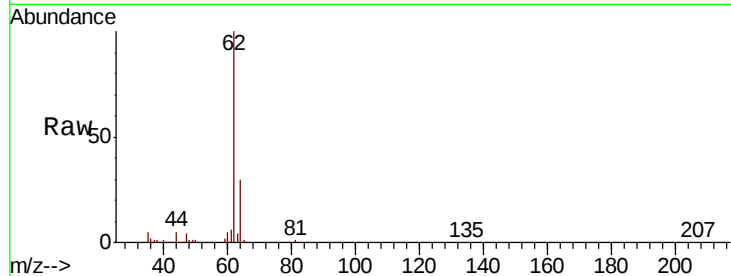
VSTDIC001

Tot Ion: 62 Resp: 76123

Ion Ratio Lower Upper

62 100

64 30.3 27.4 41.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.26

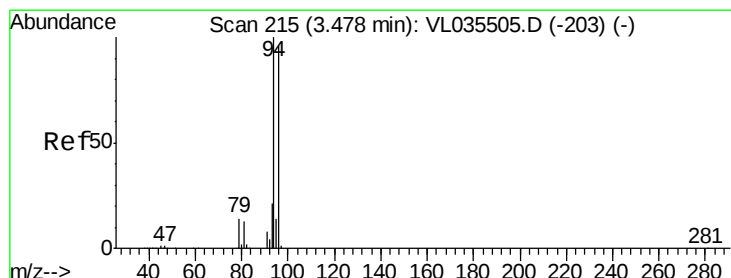
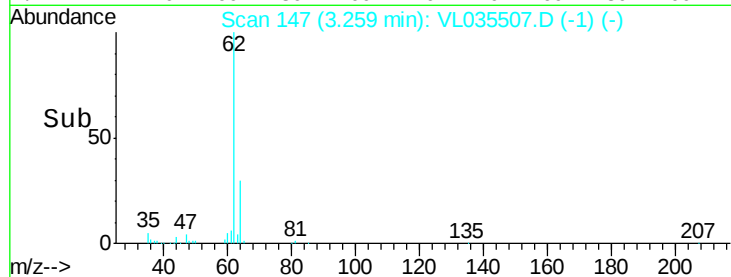
60000

40000

20000

0

Time--> 3.20 3.25 3.30



#6

Bromomethane

Concen: 0.981 ppbv

RT: 3.48 min Scan# 215

Delta R.T. -0.00 min

Lab File: VL035507.D

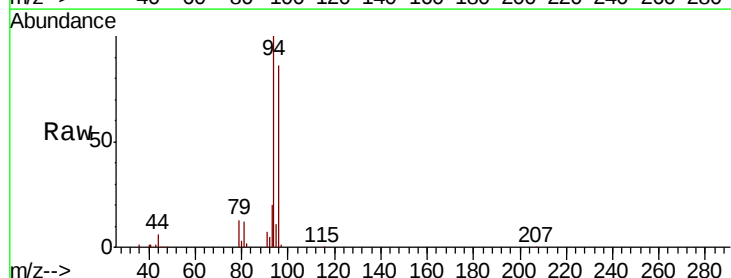
Acq: 27 Aug 2020 3:29

Tgt Ion: 94 Resp: 67683

Ion Ratio Lower Upper

94 100

96 85.8 77.1 115.7



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.48

50000

40000

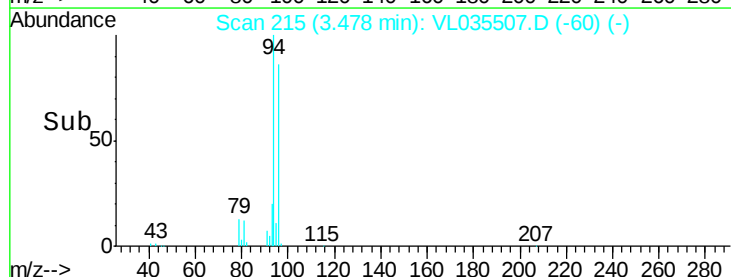
30000

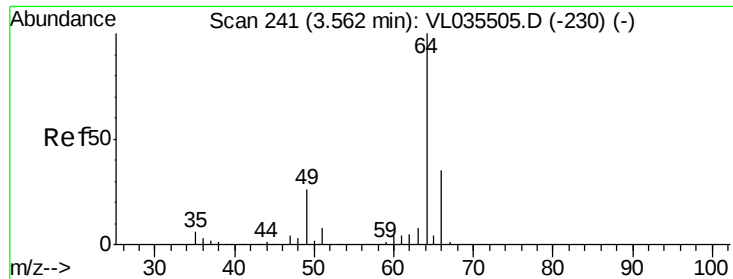
20000

10000

0

Time--> 3.45 3.50





#7

Chloroethane

Concen: 0.972 ppbv

RT: 3.56 min Scan# 241

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

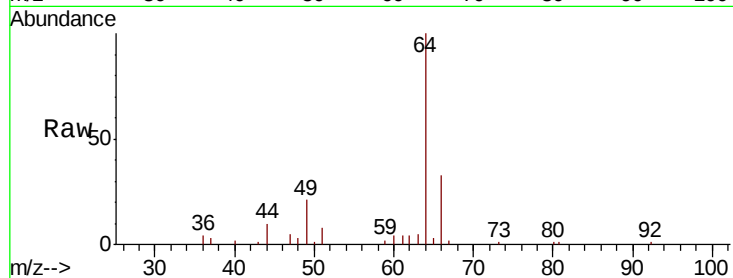
VSTDIC001

Tot Ion: 64 Resp: 27938

Ion Ratio Lower Upper

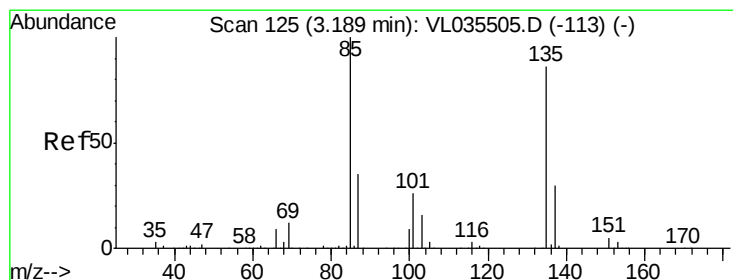
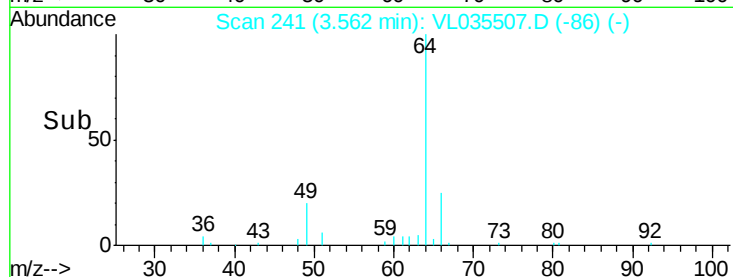
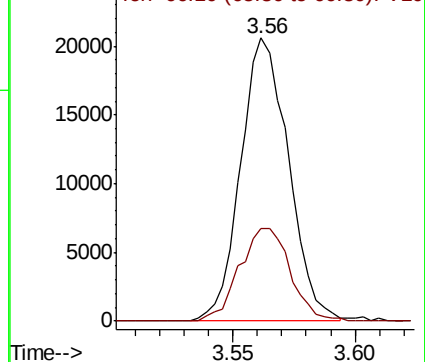
64 100

66 32.6 27.7 41.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.058 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.00 min

Lab File: VL035507.D

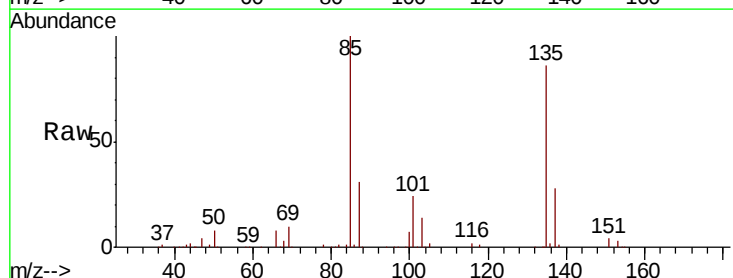
Acq: 27 Aug 2020 3:29

Tgt Ion: 85 Resp: 250078

Ion Ratio Lower Upper

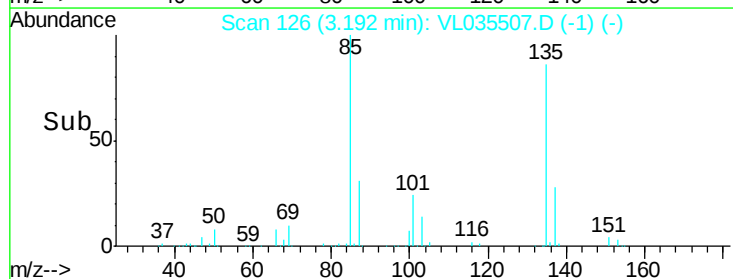
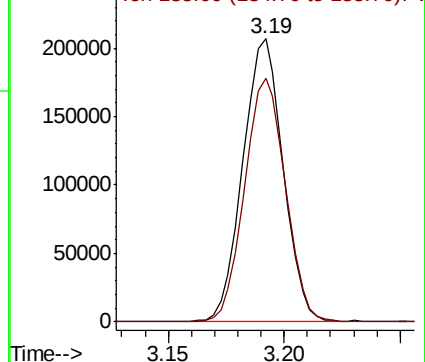
85 100

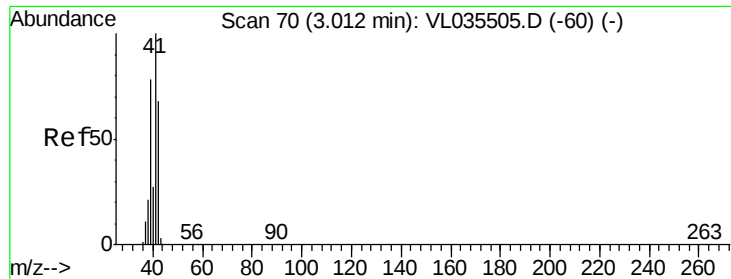
135 87.5 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.983 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

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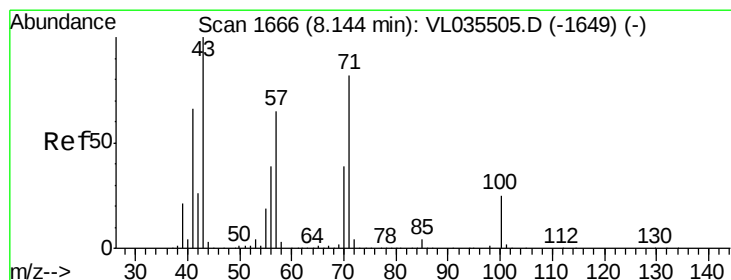
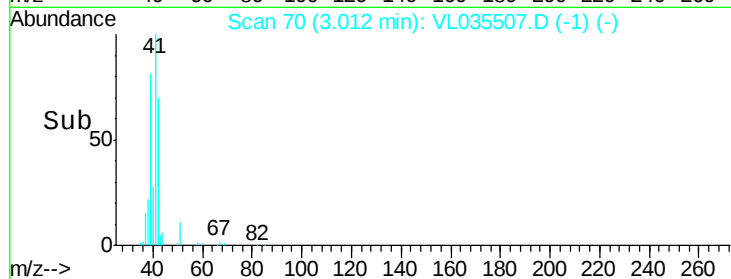
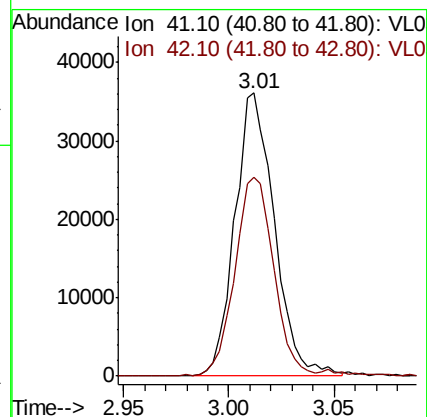
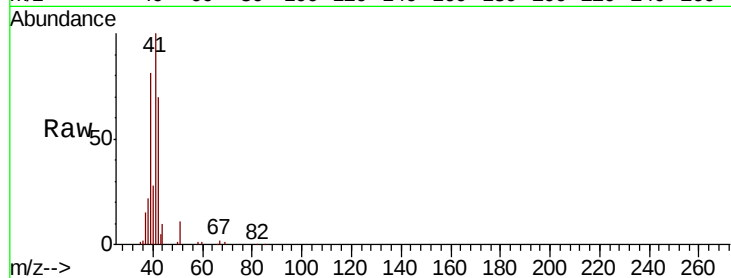
VSTDIC001

Tot Ion: 41 Resp: 46996

Ion Ratio Lower Upper

41 100

42 70.3 56.3 84.5



#10

Heptane

Concen: 0.999 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. -0.00 min

Lab File: VL035507.D

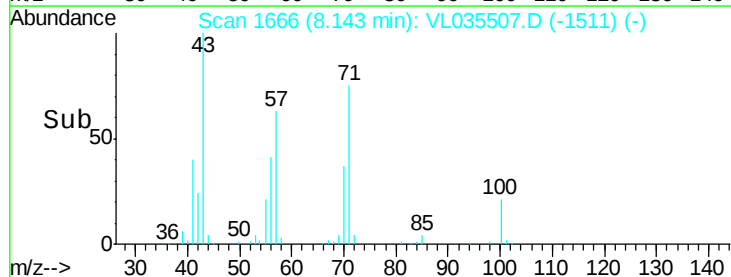
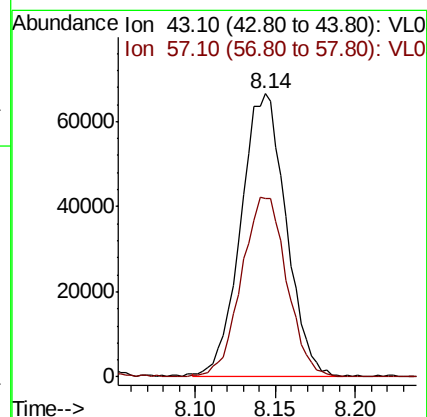
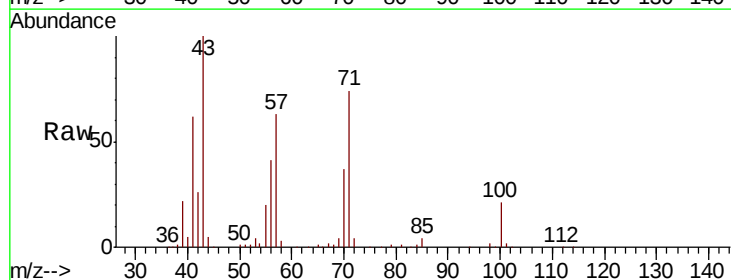
Acq: 27 Aug 2020 3:29

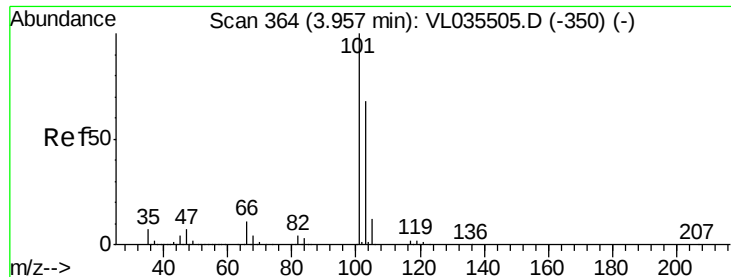
Tgt Ion: 43 Resp: 127265

Ion Ratio Lower Upper

43 100

57 64.0 51.4 77.0





#11

Trichlorofluoromethane

Concen: 1.016 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

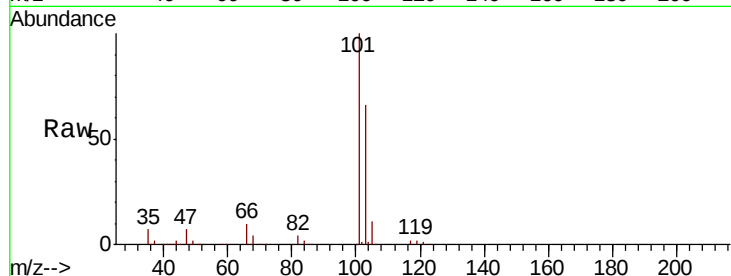
VSTDIC001

Tot Ion:101 Resp: 291825

Ion Ratio Lower Upper

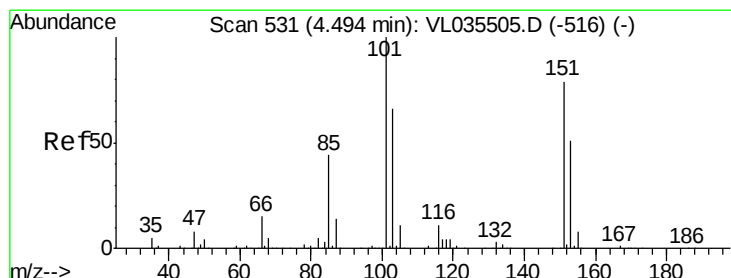
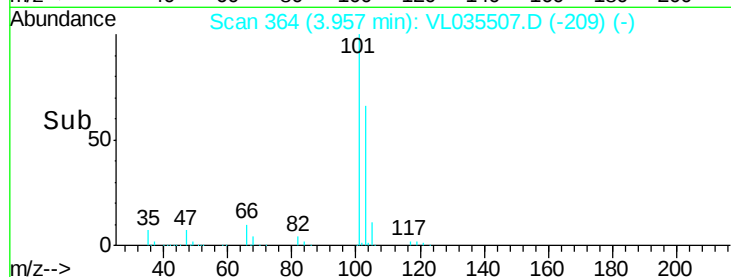
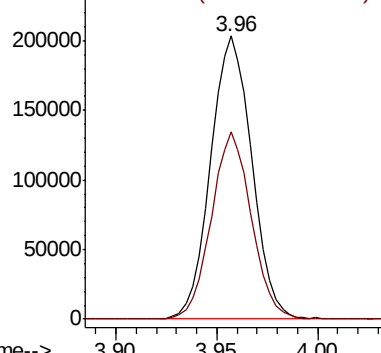
101 100

103 66.1 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: 1.010 ppbv

RT: 4.49 min Scan# 531

Delta R.T. -0.00 min

Lab File: VL035507.D

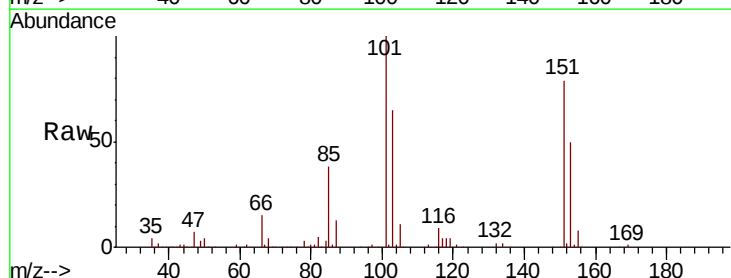
Acq: 27 Aug 2020 3:29

Tgt Ion:101 Resp: 216433

Ion Ratio Lower Upper

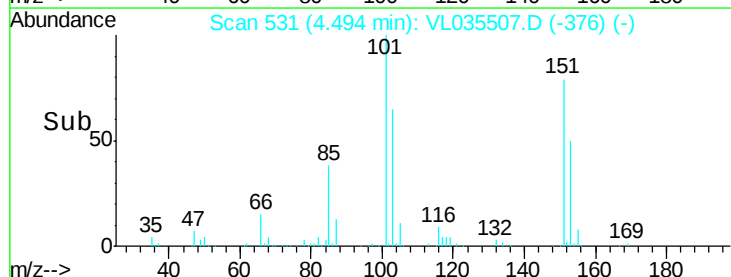
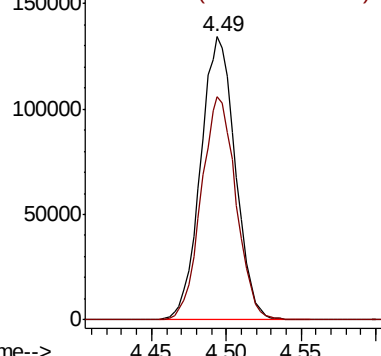
101 100

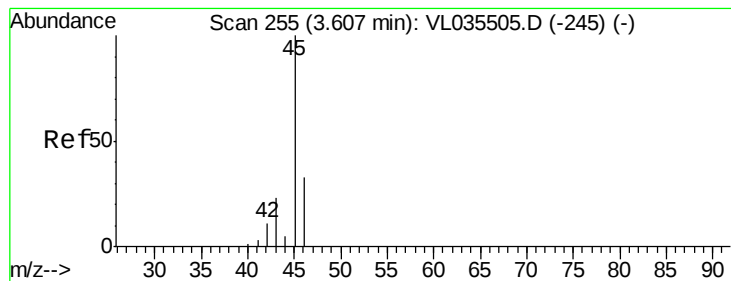
151 79.0 63.5 95.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.896 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

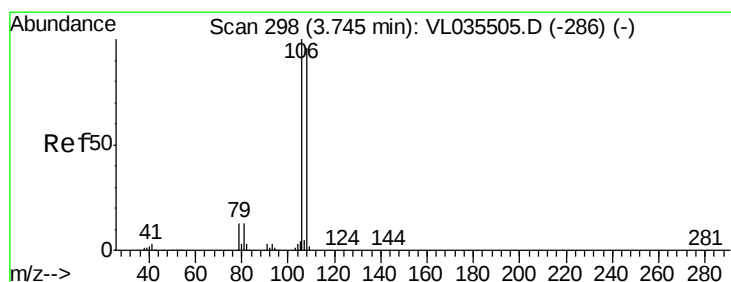
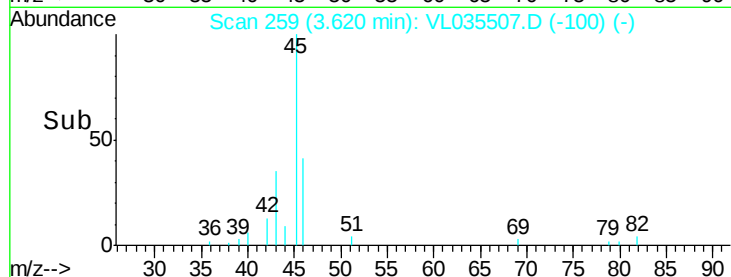
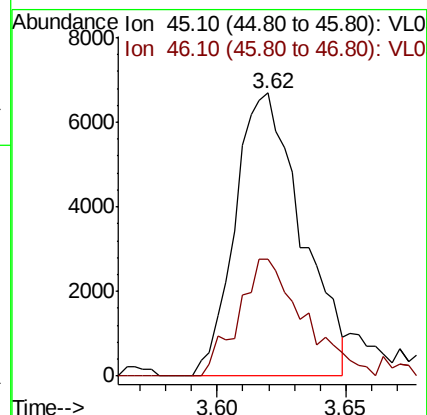
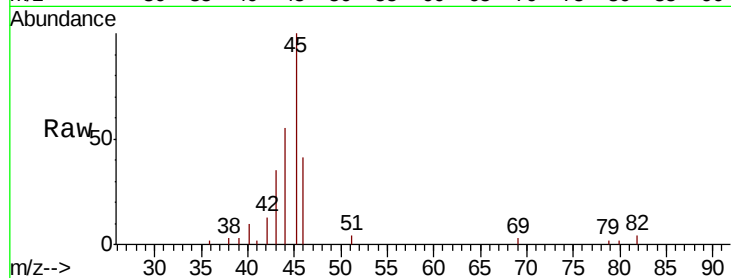
VSTDIC001

Tot Ion: 45 Resp: 12017

Ion Ratio Lower Upper

45 100

46 42.8 15.2 60.6



#14

Bromoethene

Concen: 0.968 ppbv

RT: 3.74 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

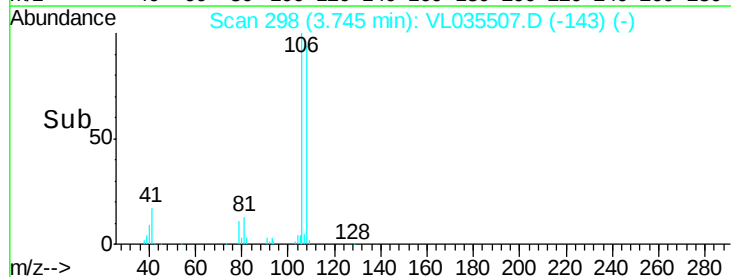
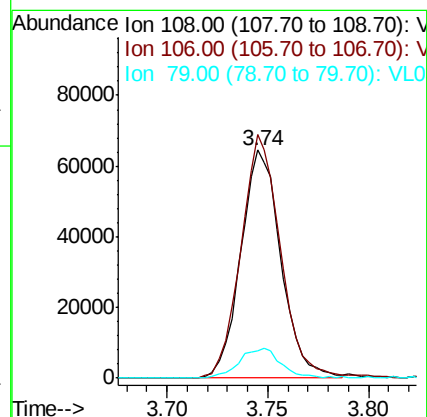
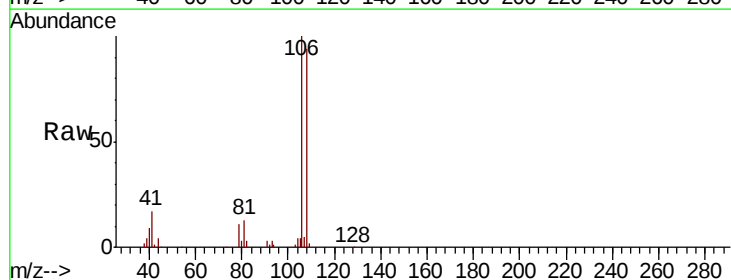
Tgt Ion: 108 Resp: 90243

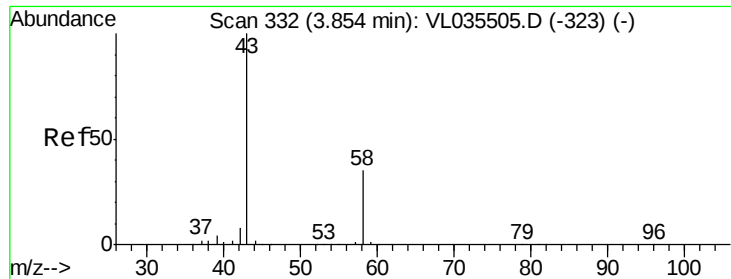
Ion Ratio Lower Upper

108 100

106 106.0 84.9 127.3

79 13.8 10.8 16.2





#15

Acetone

Concen: 1.086 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

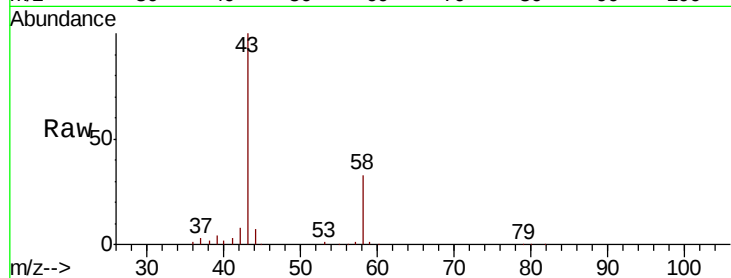
VSTDIC001

Tot Ion: 43 Resp: 126858

Ion Ratio Lower Upper

43 100

58 39.4 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.86

100000

80000

60000

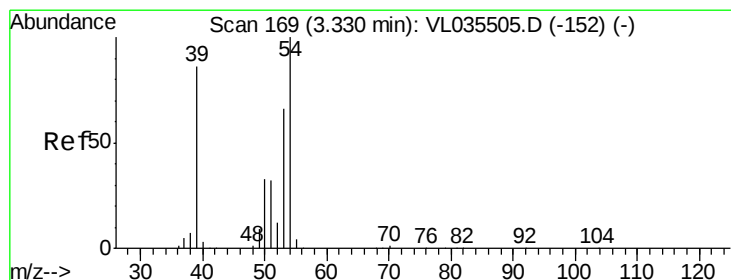
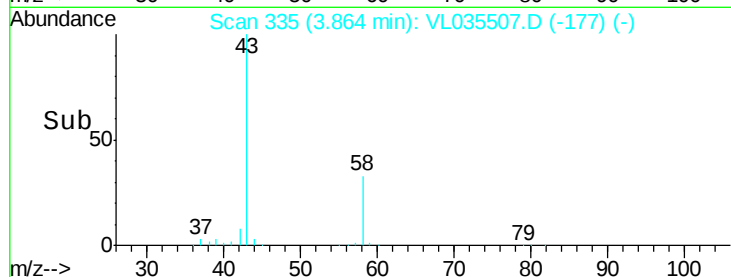
40000

20000

0

3.85 3.90

Time-->



#16

1,3-Butadiene

Concen: 0.965 ppbv

RT: 3.33 min Scan# 170

Delta R.T. 0.00 min

Lab File: VL035507.D

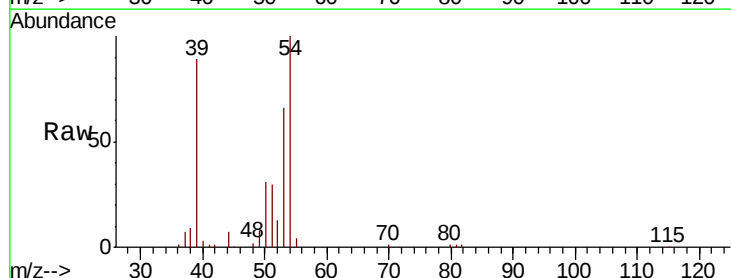
Acq: 27 Aug 2020 3:29

Tgt Ion: 39 Resp: 44759

Ion Ratio Lower Upper

39 100

54 107.6 88.4 132.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.33

40000

30000

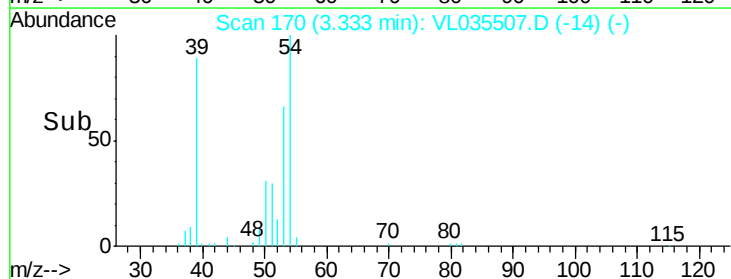
20000

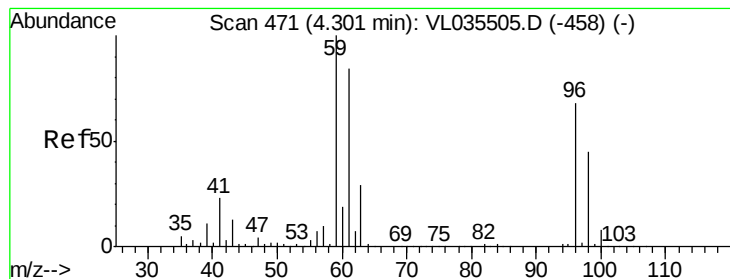
10000

0

3.25 3.30 3.35

Time-->





#17

tert-Butyl alcohol

Concen: 1.001 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

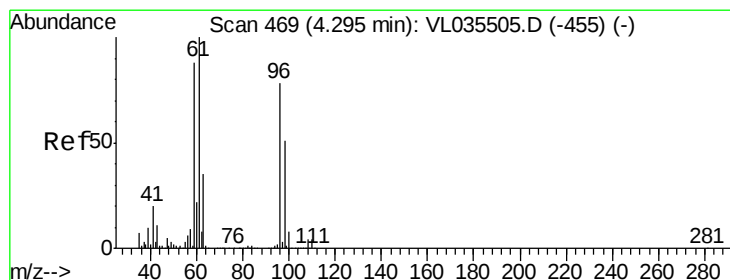
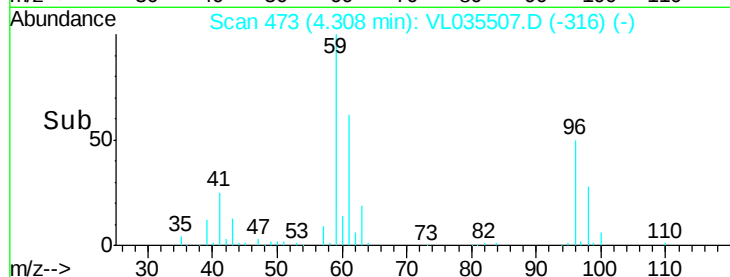
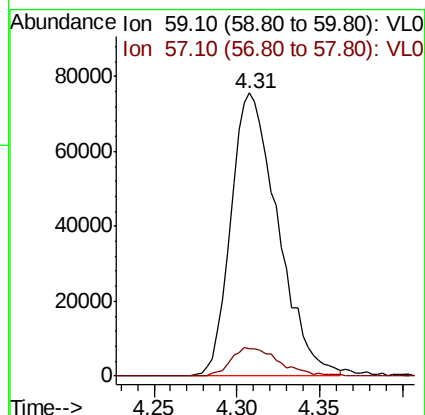
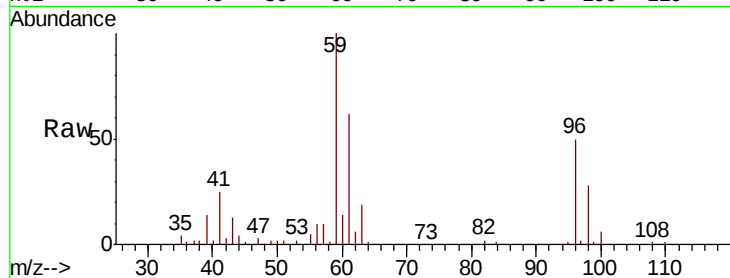
VSTDIC001

Tot Ion: 59 Resp: 148785

Ion Ratio Lower Upper

59 100

57 10.4 8.4 12.6



#18

1,1-Dichloroethene

Concen: 0.972 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

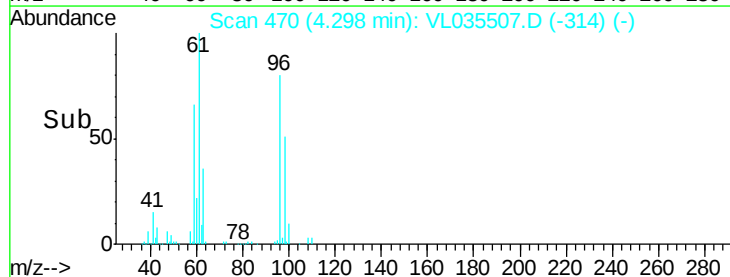
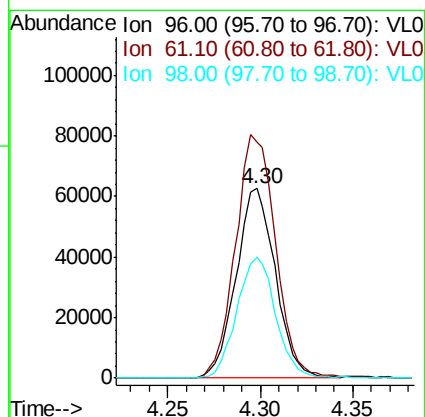
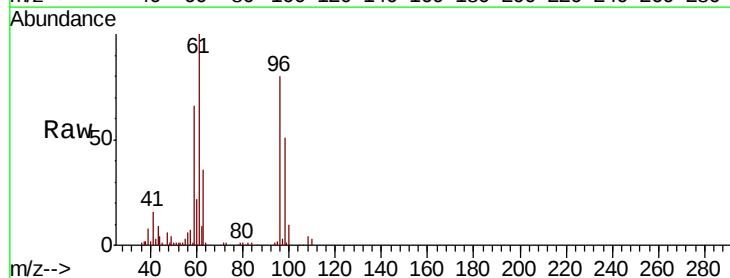
Tgt Ion: 96 Resp: 92239

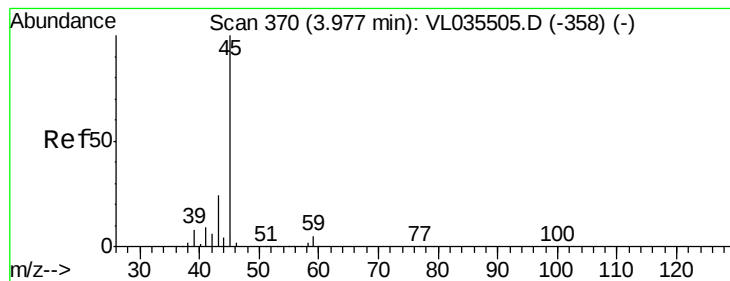
Ion Ratio Lower Upper

96 100

61 124.6 103.0 154.6

98 63.6 52.8 79.2





#19

Isopropyl Alcohol

Concen: 0.960 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

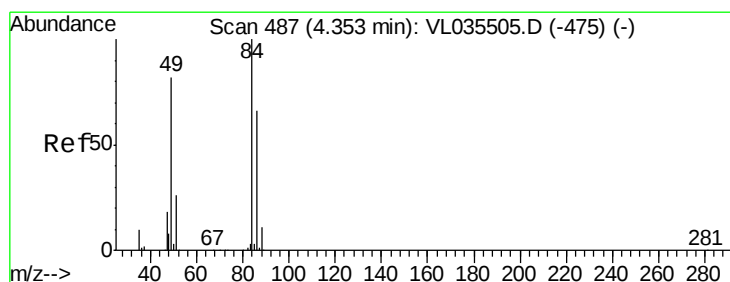
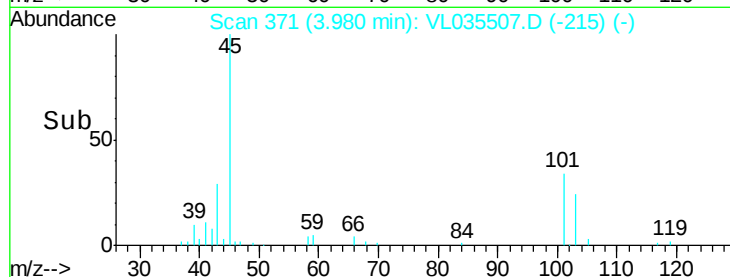
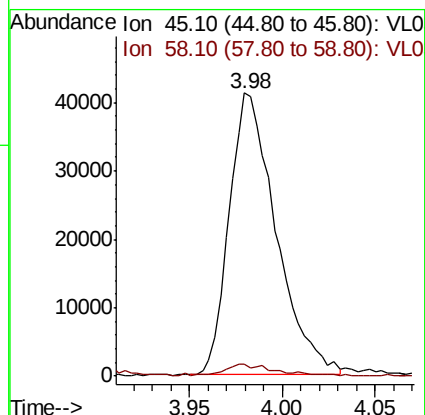
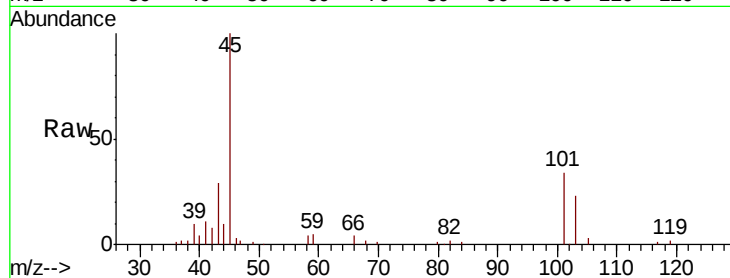
VSTDIC001

Tot Ion: 45 Resp: 72437

Ion Ratio Lower Upper

45 100

58 4.7 2.0 3.0#



#20

Methylene Chloride

Concen: 0.806 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Tgt Ion: 84 Resp: 100286

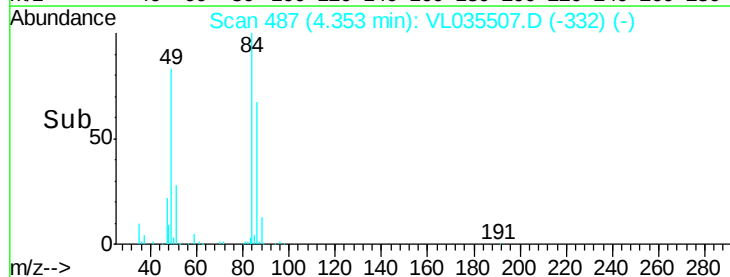
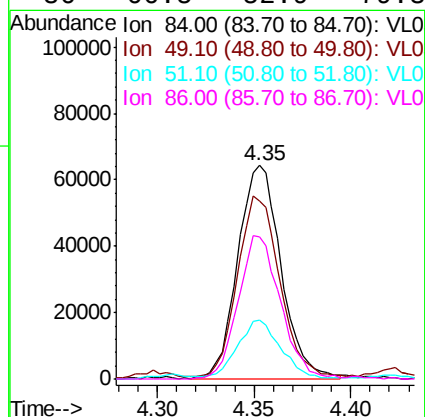
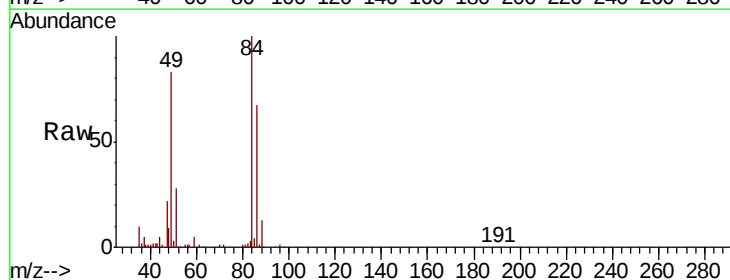
Ion Ratio Lower Upper

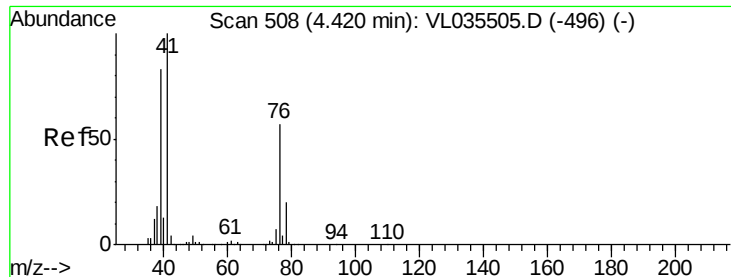
84 100

49 82.2 65.4 98.0

51 26.9 21.5 32.3

86 66.5 52.9 79.3





#21

Allvl Chloride

Concen: 0.918 ppbv

RT: 4.42 min Scan# 508

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

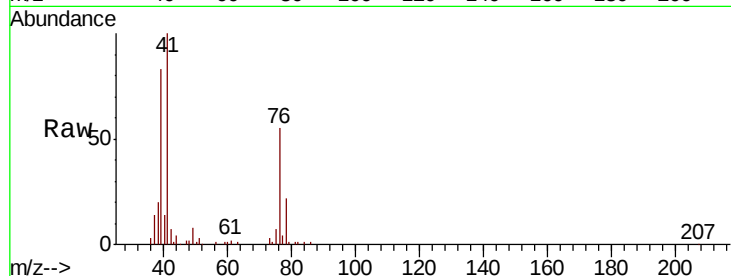
Tot Ion: 41 Resp: 54045

Ion Ratio Lower Upper

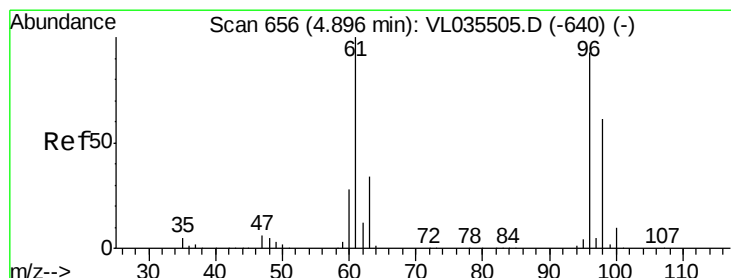
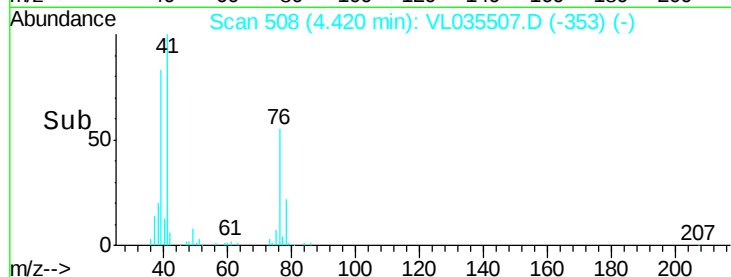
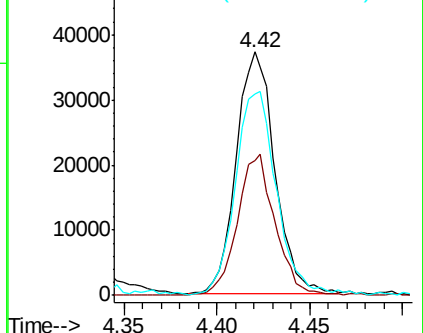
41 100

76 56.6 46.2 69.2

39 90.4 67.8 101.6



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.971 ppbv

RT: 4.90 min Scan# 656

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

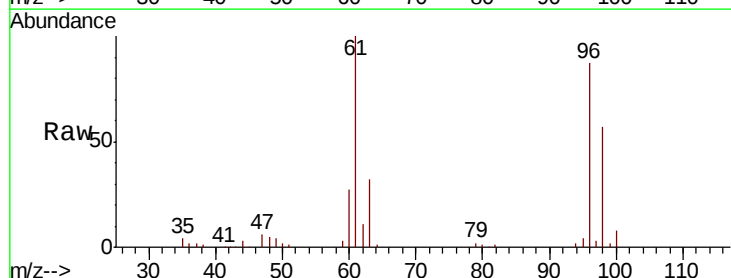
Tgt Ion: 96 Resp: 97280

Ion Ratio Lower Upper

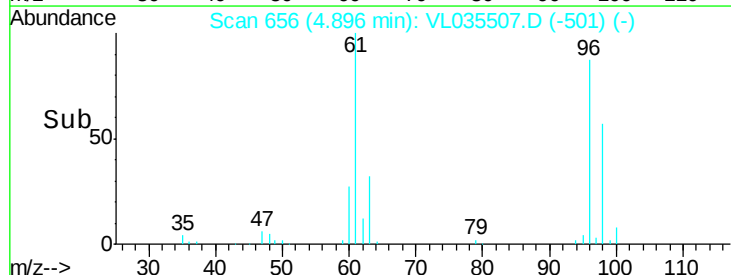
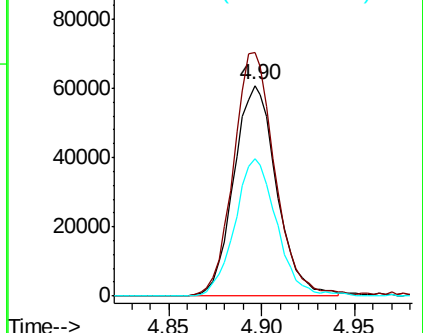
96 100

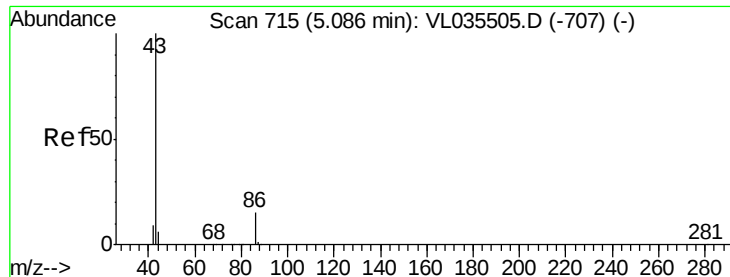
61 115.6 86.0 129.0

98 65.4 52.3 78.5



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: 0.951 ppbv

RT: 5.09 min Scan# 715

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 146141

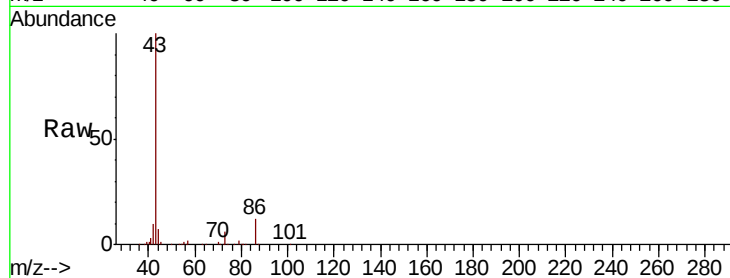
Ion Ratio Lower Upper

43 100

86 12.1 10.6 16.0

42 10.2 7.5 11.3

44 5.8 4.4 6.6

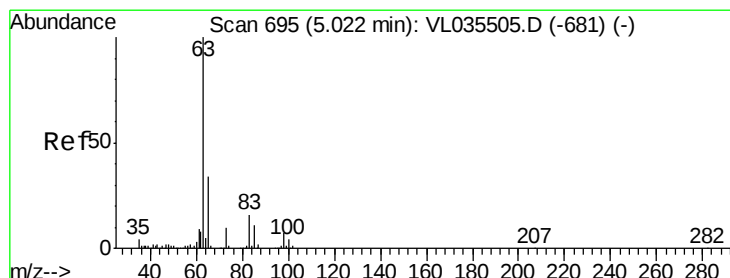
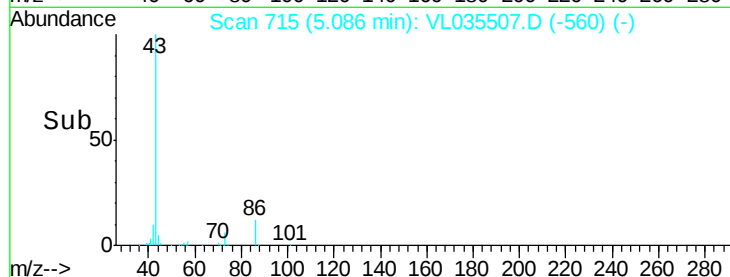
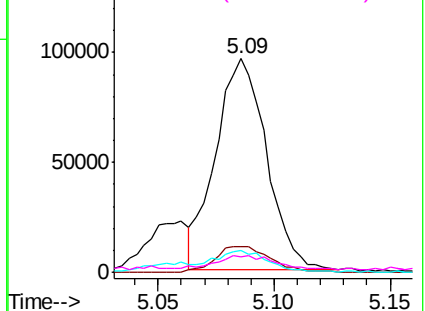


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.002 ppbv

RT: 5.02 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

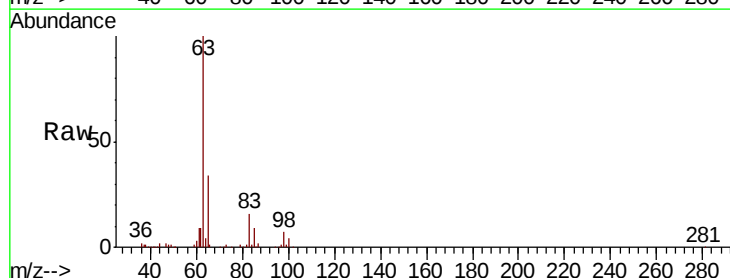
Tgt Ion: 63 Resp: 161622

Ion Ratio Lower Upper

63 100

98 6.6 3.4 10.1

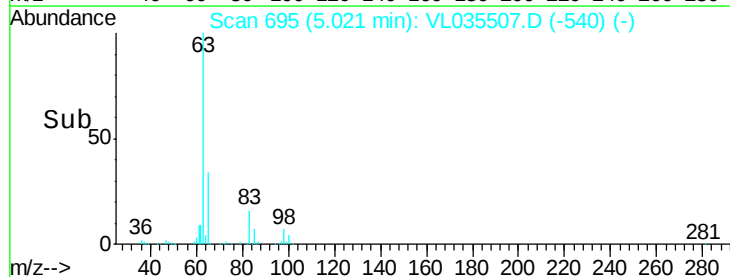
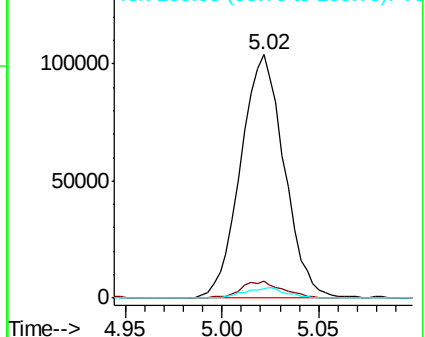
100 3.7 2.1 6.5

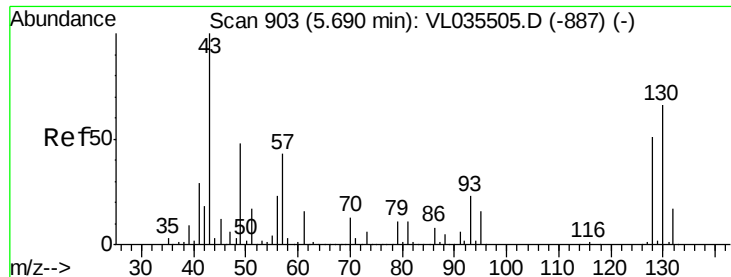


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 1.004 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion: 43 Resp: 221989

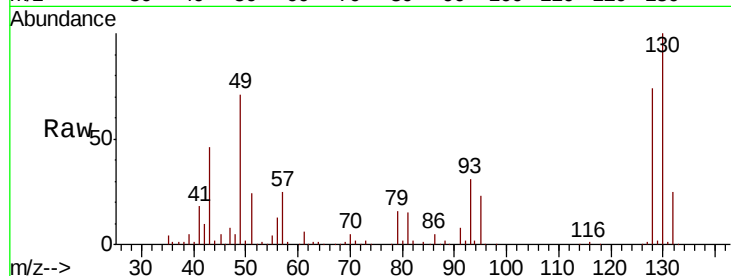
Ion Ratio Lower Upper

43 100

45 11.2 8.4 12.6

61 12.6 10.6 16.0

70 11.2 9.4 14.2



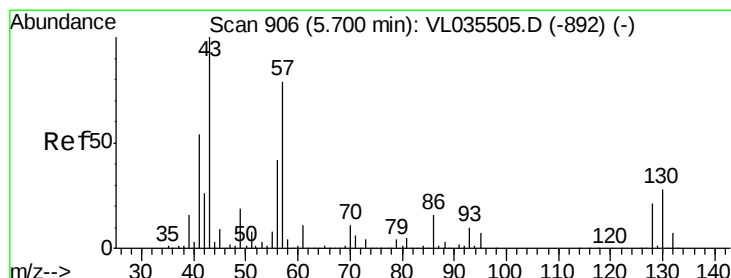
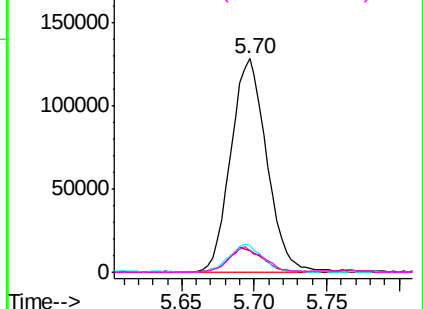
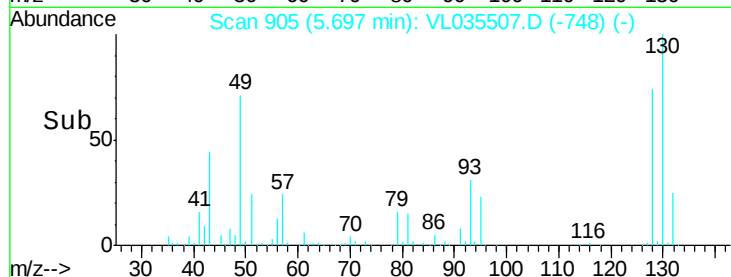
Abundance

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: 0.927 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Tgt Ion: 57 Resp: 124658

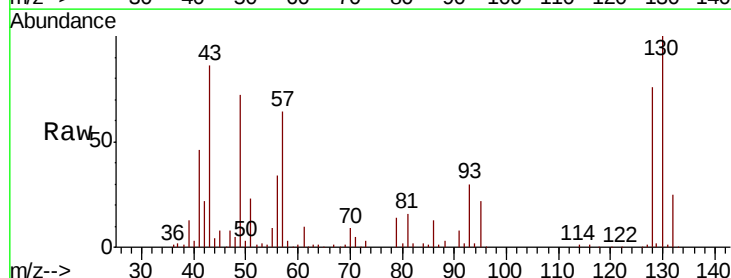
Ion Ratio Lower Upper

57 100

41 72.7 55.9 83.9

43 180.0 141.8 212.8

56 53.1 41.8 62.8



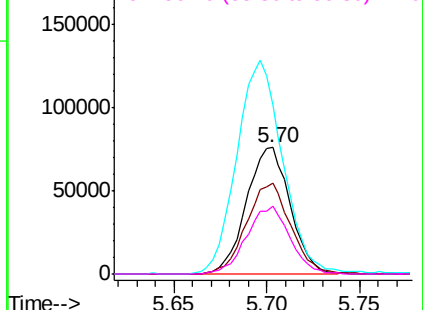
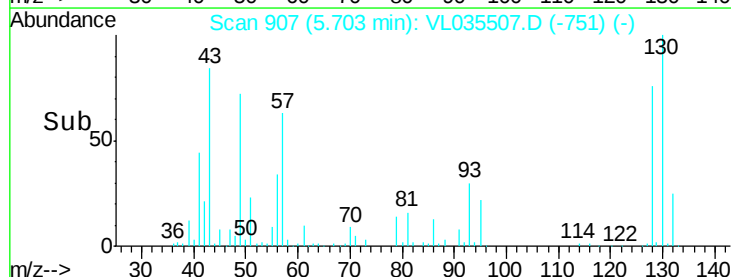
Abundance

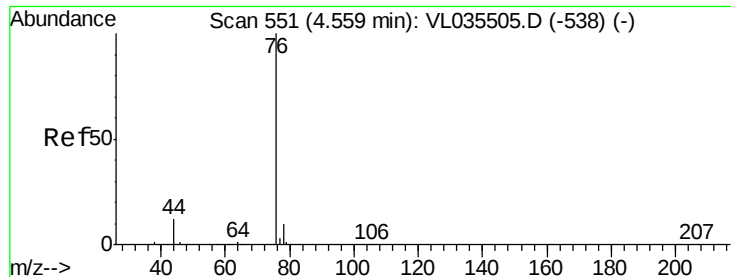
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.891 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

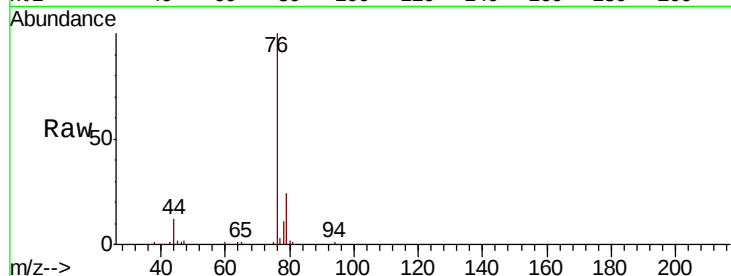
Tot Ion: 76 Resp: 159210

Ion Ratio Lower Upper

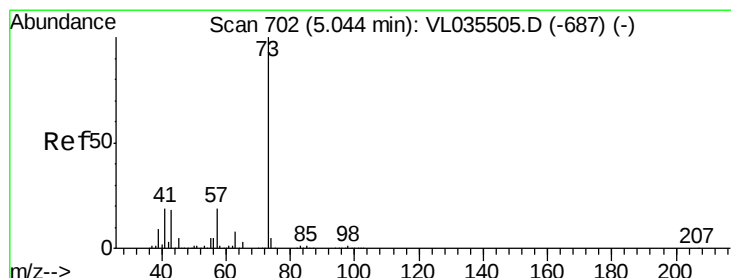
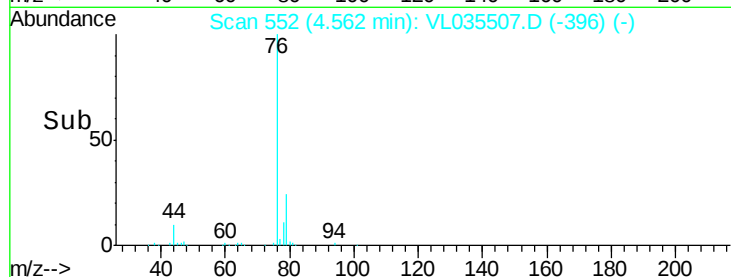
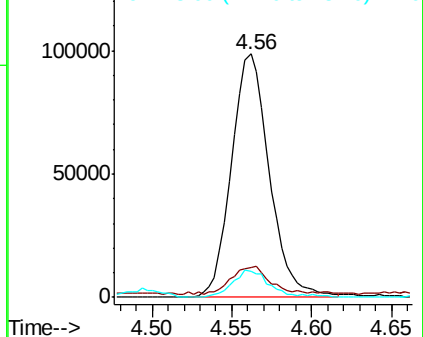
76 100

44 13.1 9.3 13.9

78 11.0 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



#28

Methyl tert-Butyl Ether

Concen: 0.958 ppbv

RT: 5.05 min Scan# 705

Delta R.T. 0.01 min

Lab File: VL035507.D

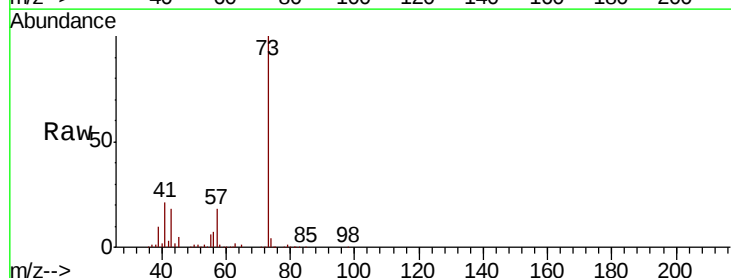
Acq: 27 Aug 2020 3:29

Tgt Ion: 73 Resp: 209111

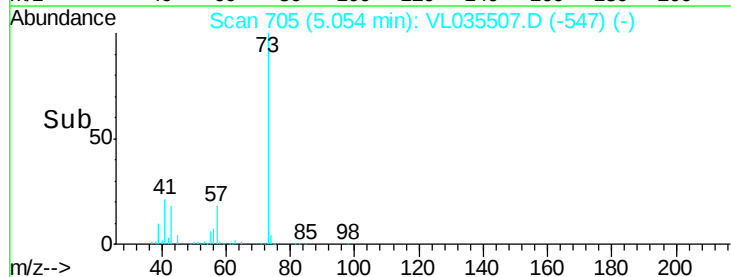
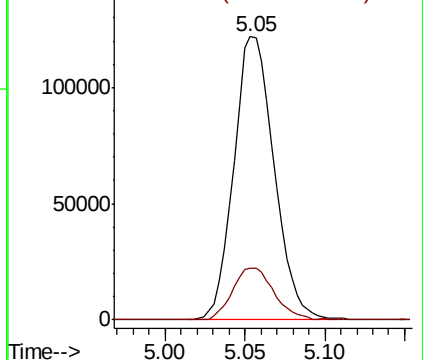
Ion Ratio Lower Upper

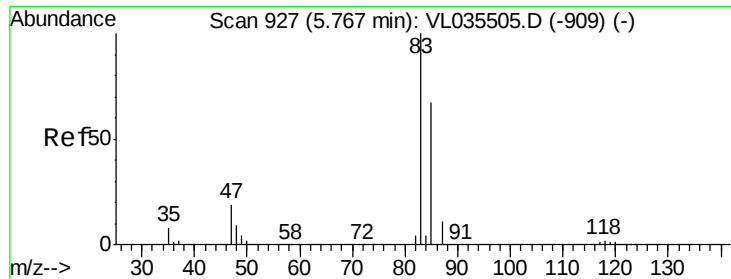
73 100

57 19.0 15.2 22.8



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

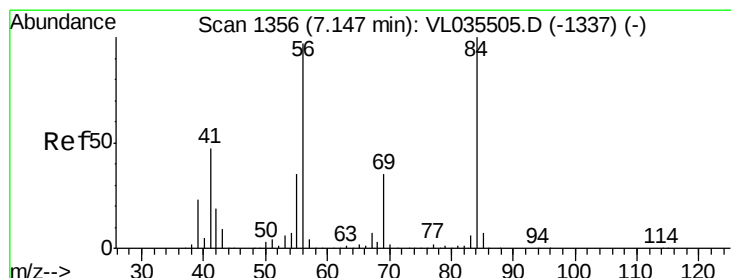
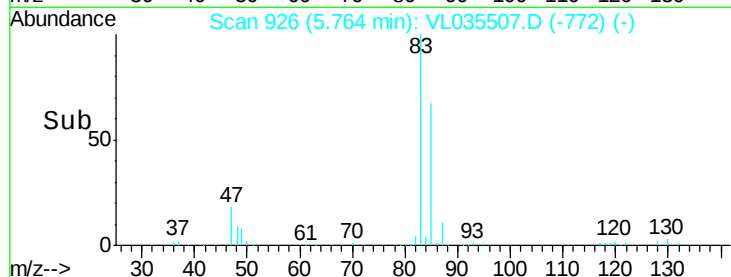
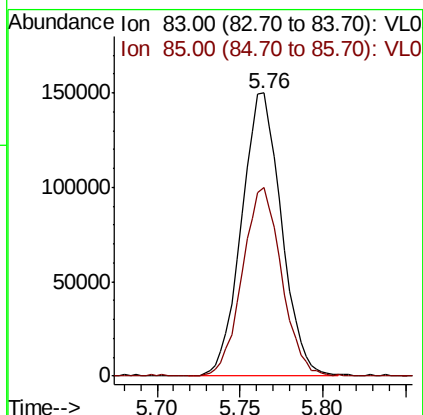
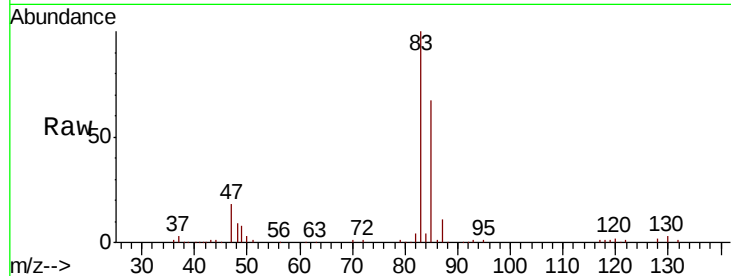




#29
Chloroform
Concen: 0.984 ppbv
RT: 5.76 min Scan# 926
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

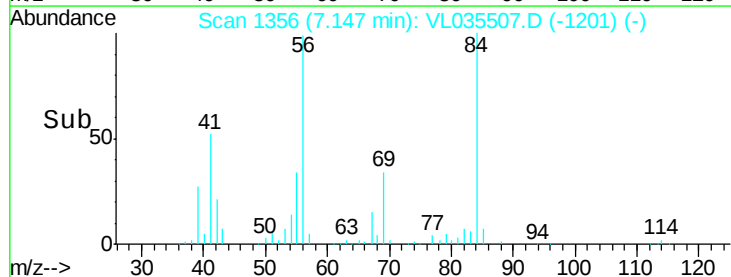
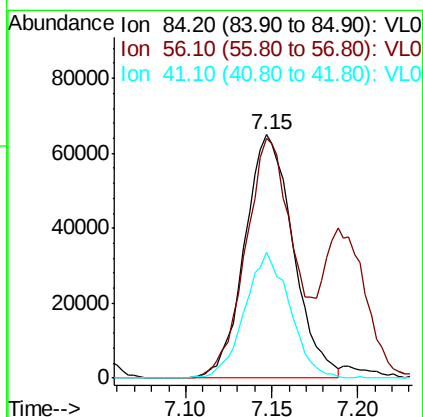
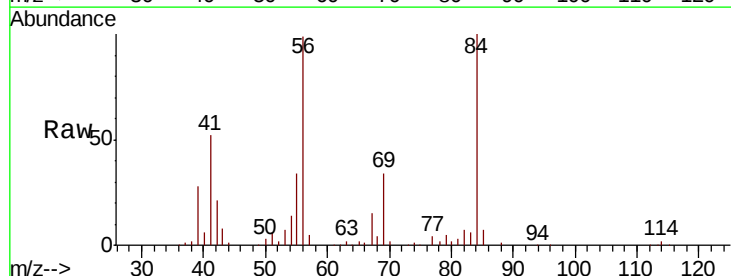
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

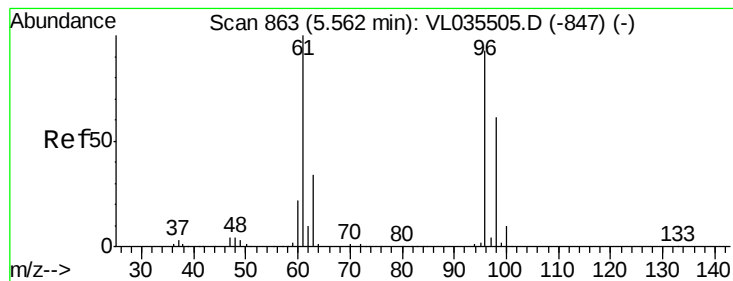
Tot Ion: 83 Resp: 250956
Ion Ratio Lower Upper
83 100
85 66.6 53.9 80.9



#30
Cyclohexane
Concen: 0.941 ppbv
RT: 7.15 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

Tgt Ion: 84 Resp: 127049
Ion Ratio Lower Upper
84 100
56 95.5 80.1 120.1
41 48.3 38.1 57.1





#31

cis-1,2-Dichloroethene

Concen: 0.956 ppbv

RT: 5.56 min Scan# 863

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

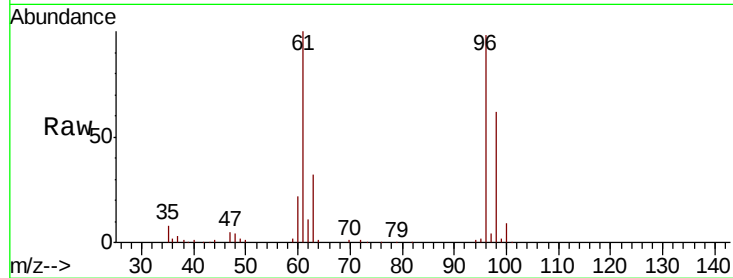
Tot Ion: 61 Resp: 121347

Ion Ratio Lower Upper

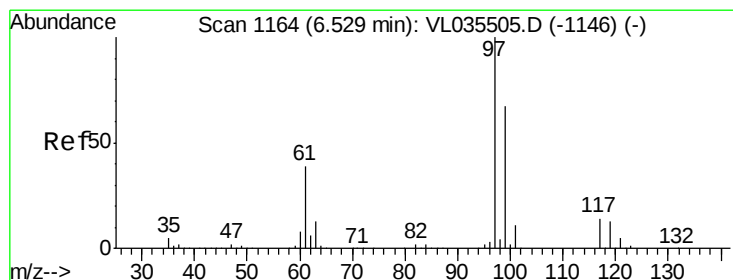
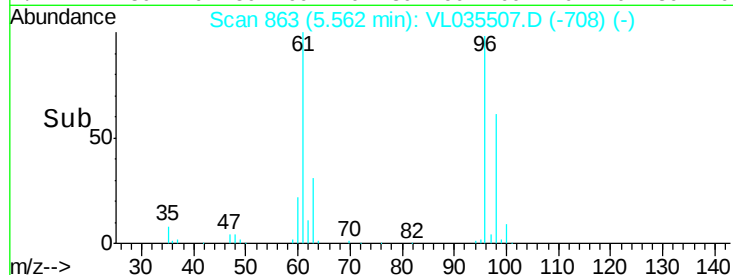
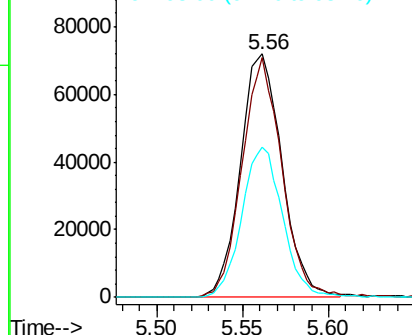
61 100

96 98.2 74.4 111.6

98 61.6 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: 0.985 ppbv

RT: 6.53 min Scan# 1163

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

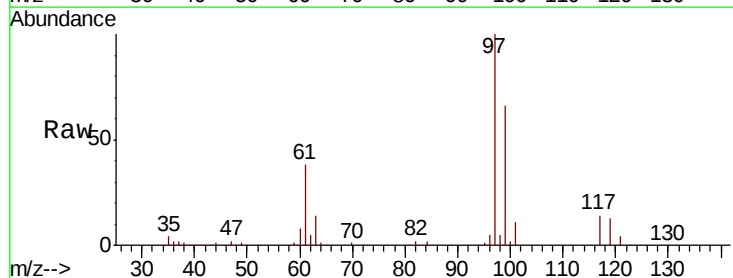
Tgt Ion: 97 Resp: 229236

Ion Ratio Lower Upper

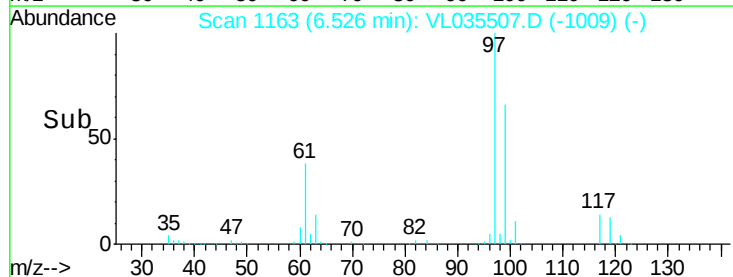
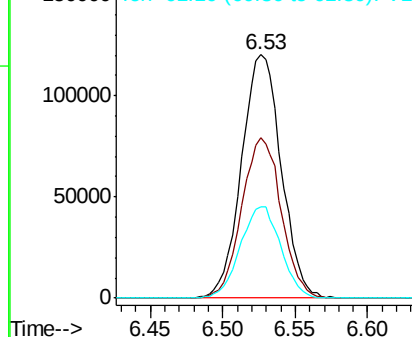
97 100

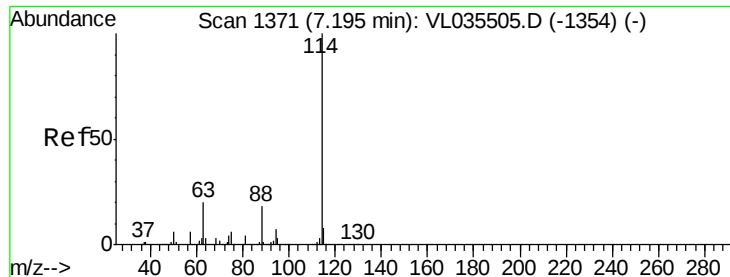
99 65.3 53.3 79.9

61 38.3 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

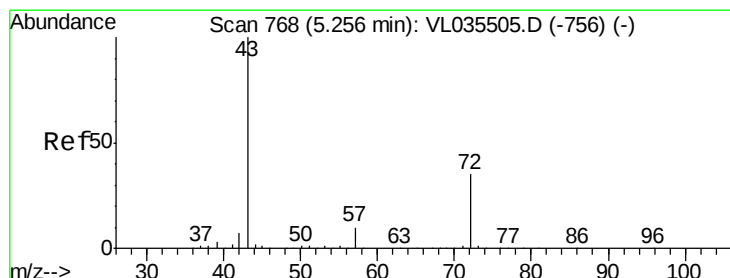
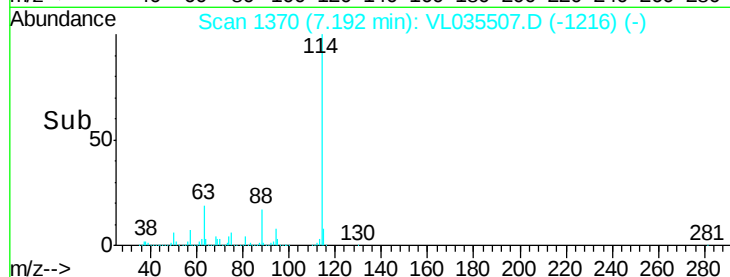
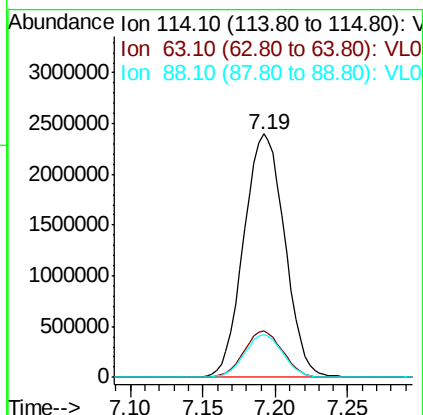
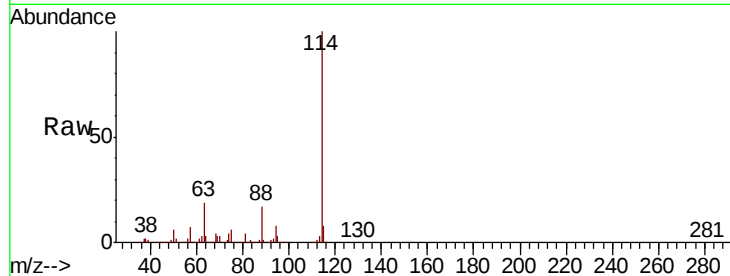




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

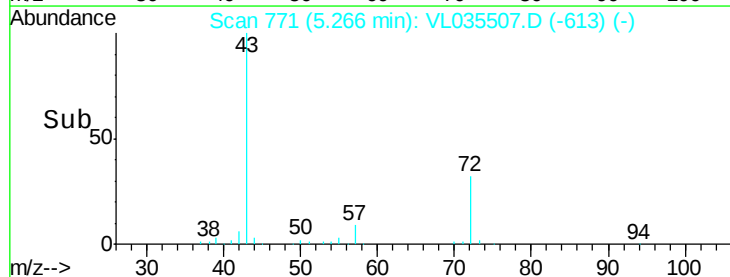
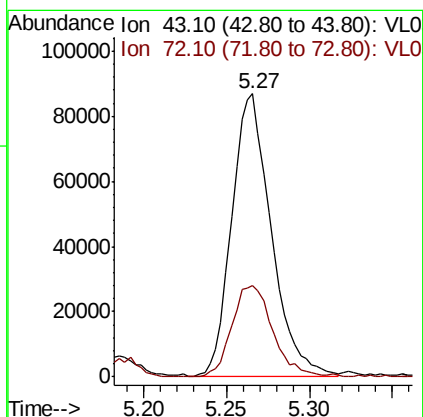
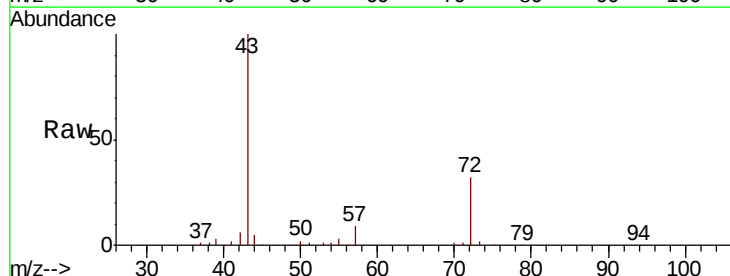
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

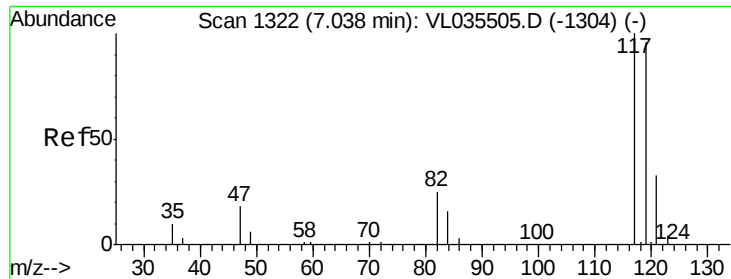
Tot Ion:114 Resp: 4710627
 Ion Ratio Lower Upper
 114 100
 63 18.2 14.7 22.1
 88 16.7 13.4 20.2



#34
 2-Butanone
 Concen: 1.029 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.01 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Tgt Ion: 43 Resp: 143218
 Ion Ratio Lower Upper
 43 100
 72 34.0 27.7 41.5





#35

Carbon Tetrachloride

Concen: 1.015 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

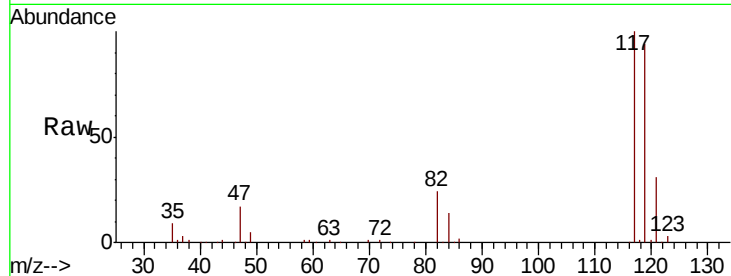
Tot Ion:117 Resp: 232624

Ion Ratio Lower Upper

117 100

119 93.5 77.2 115.8

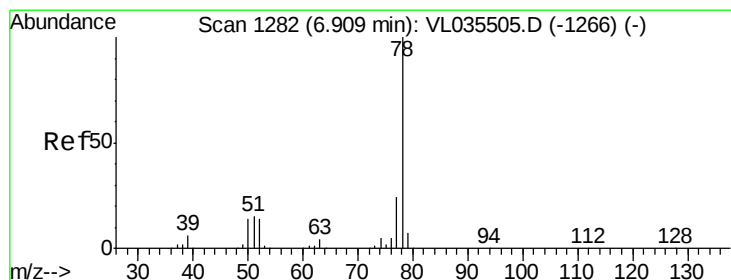
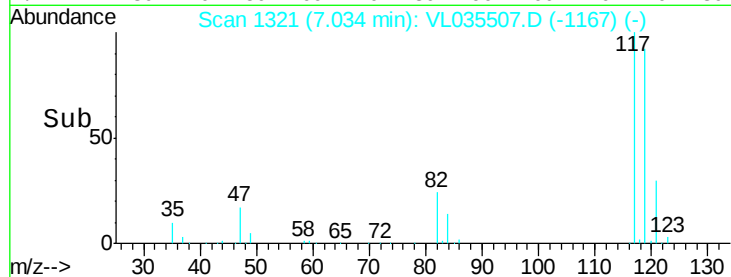
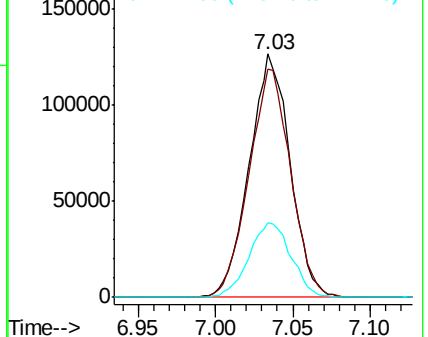
121 30.8 26.1 39.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 1.022 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

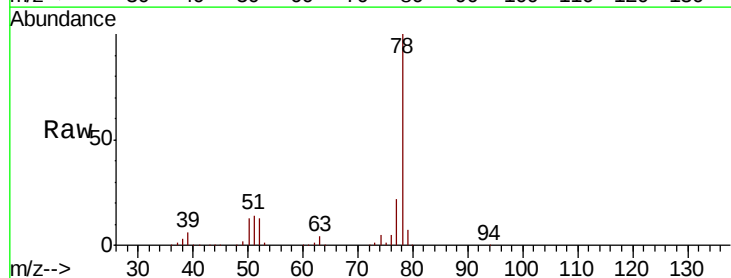
Tgt Ion: 78 Resp: 316831

Ion Ratio Lower Upper

78 100

77 21.7 19.3 28.9

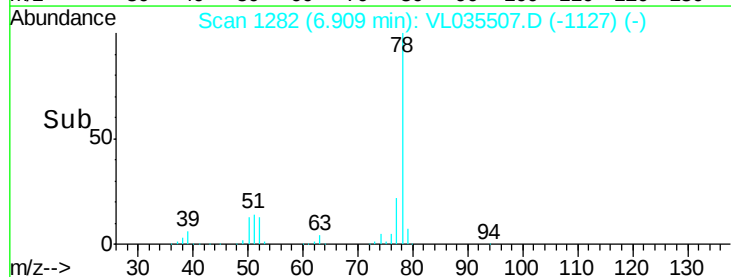
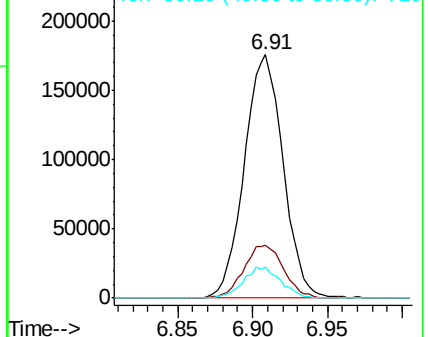
50 13.0 11.0 16.6

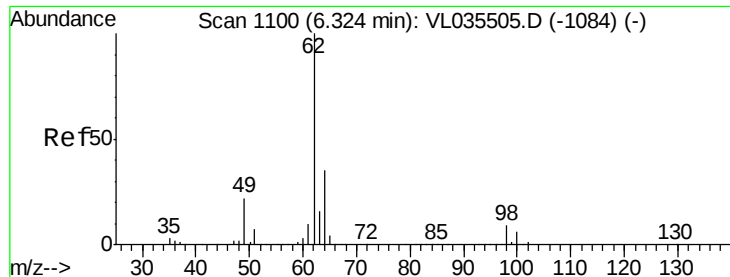


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

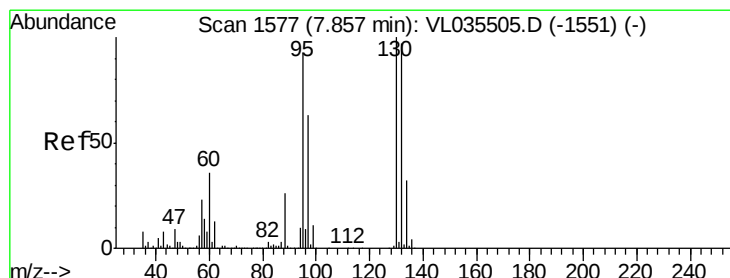
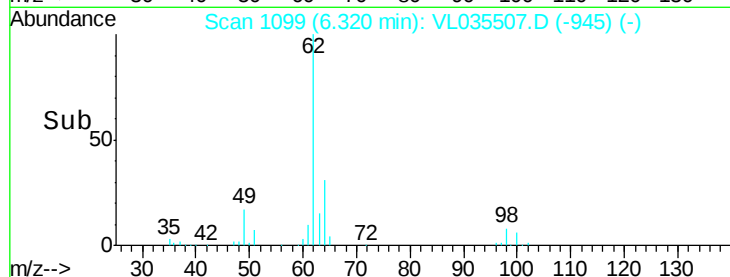
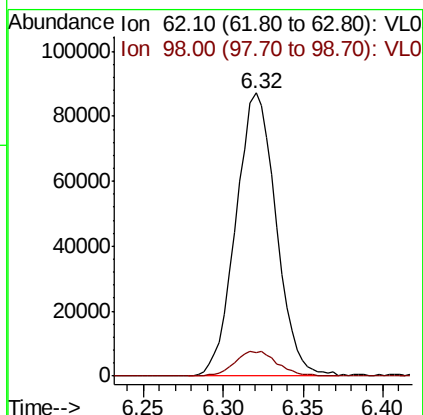
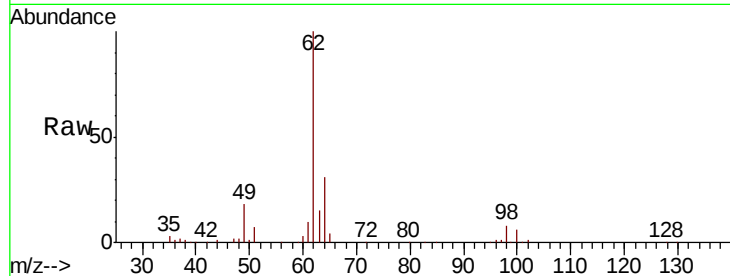




#37
 1,2-Dichloroethane
 Concen: 1.019 ppbv
 RT: 6.32 min Scan# 1099
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

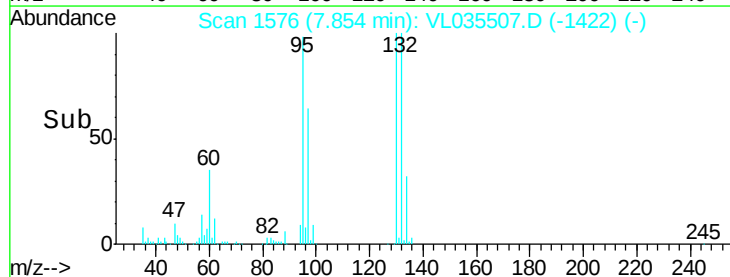
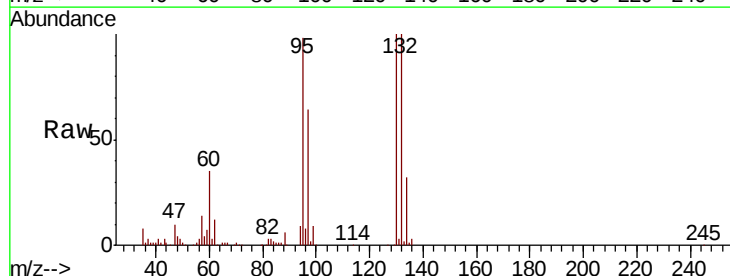
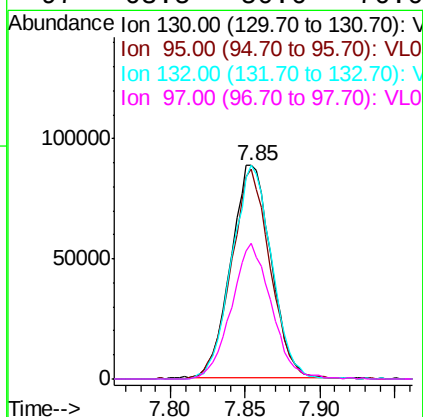
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

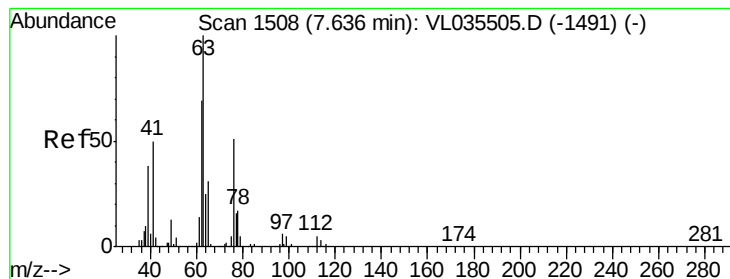
Tot Ion: 62 Resp: 149476
 Ion Ratio Lower Upper
 62 100
 98 9.2 7.4 11.0



#38
 Trichloroethene
 Concen: 0.974 ppbv
 RT: 7.85 min Scan# 1576
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Tgt Ion:130 Resp: 166823
 Ion Ratio Lower Upper
 130 100
 95 98.2 74.6 112.0
 132 100.3 77.6 116.4
 97 63.5 50.6 76.0





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 7.63 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

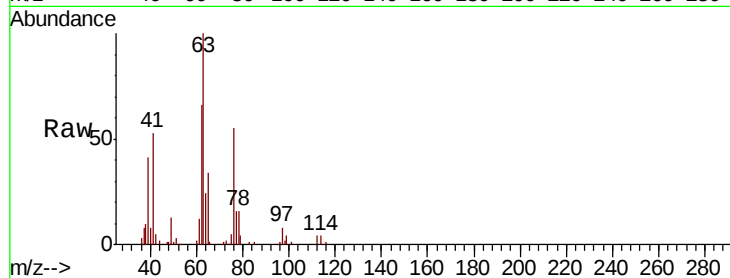
Tot Ion: 63 Resp: 106585

Ion Ratio Lower Upper

63 100

41 52.2 40.0 60.0

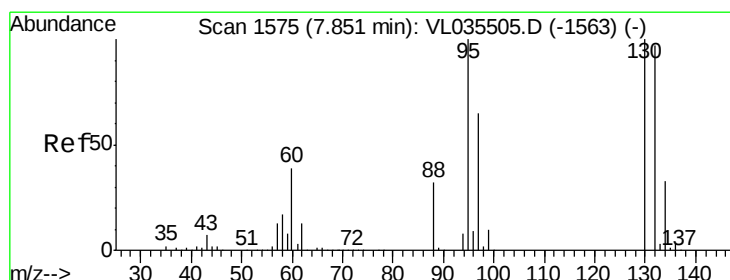
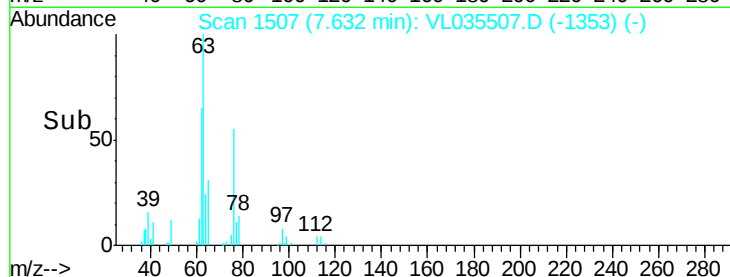
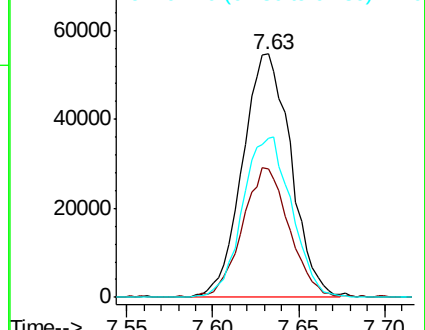
62 65.5 55.4 83.0



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: 1.033 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.03 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Tgt Ion: 88 Resp: 52799

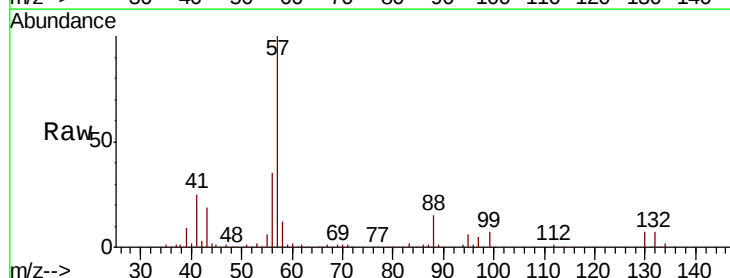
Ion Ratio Lower Upper

88 100

58 96.9 68.7 103.1

43 149.8 104.3 156.5

57 815.3 560.7 841.1

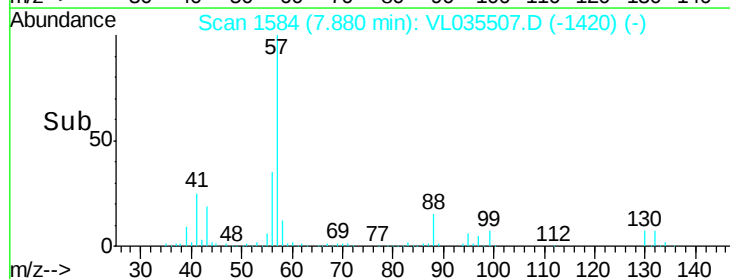
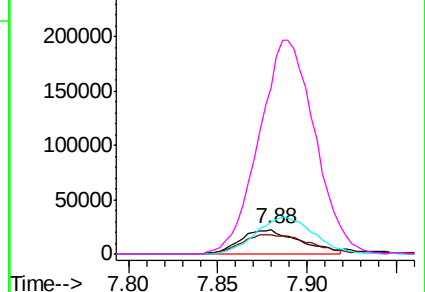


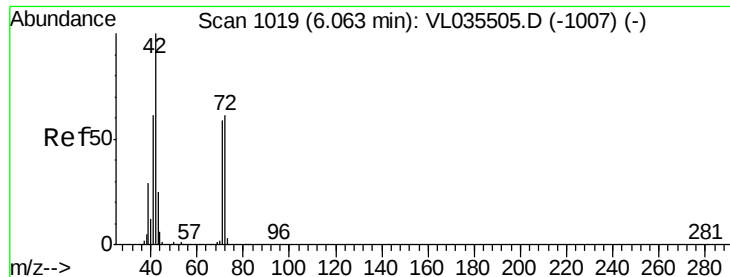
Abundance Ion 88.10 (87.80 to 88.80): VL0

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: 0.945 ppbv

RT: 6.08 min Scan# 1024

Delta R.T. 0.02 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

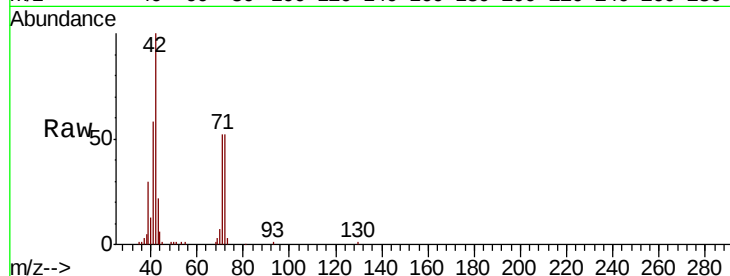
Tot Ion: 42 Resp: 71333

Ion Ratio Lower Upper

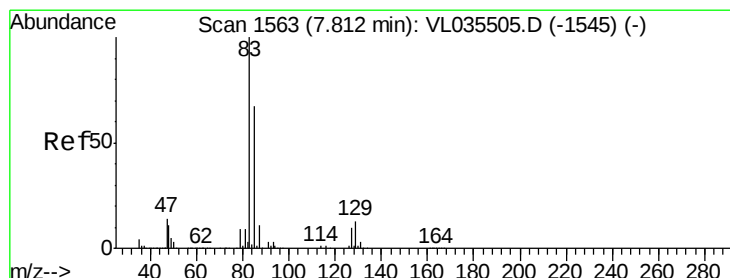
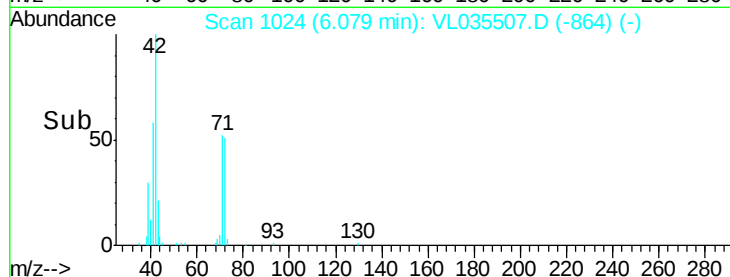
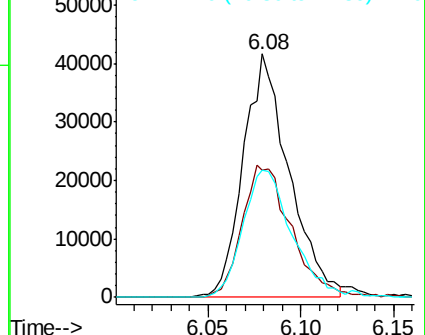
42 100

72 58.8 48.6 73.0

71 56.8 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: 0.971 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

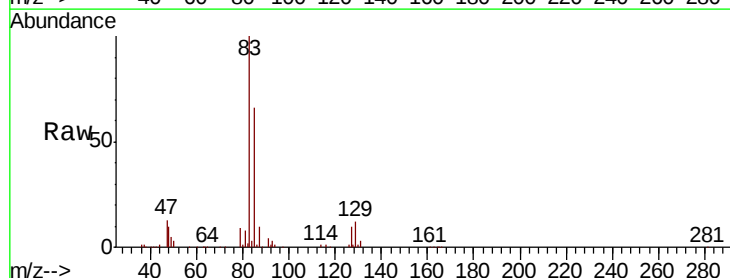
Tgt Ion: 83 Resp: 232616

Ion Ratio Lower Upper

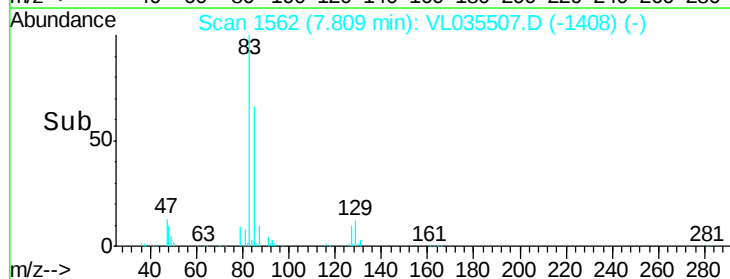
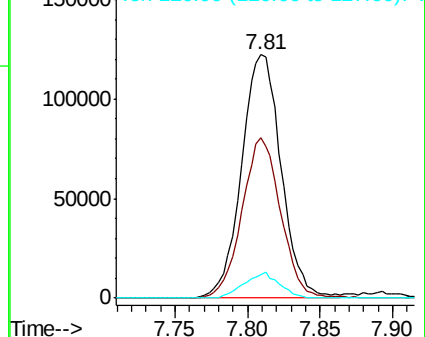
83 100

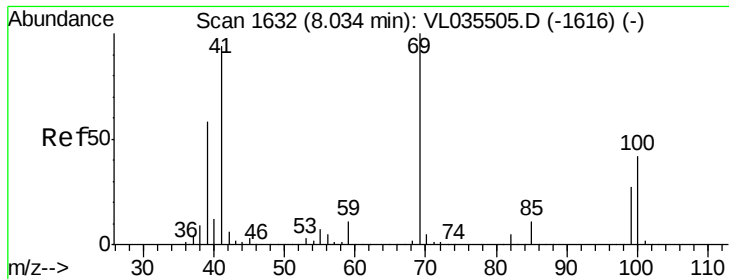
85 66.1 53.7 80.5

127 9.8 8.1 12.1



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

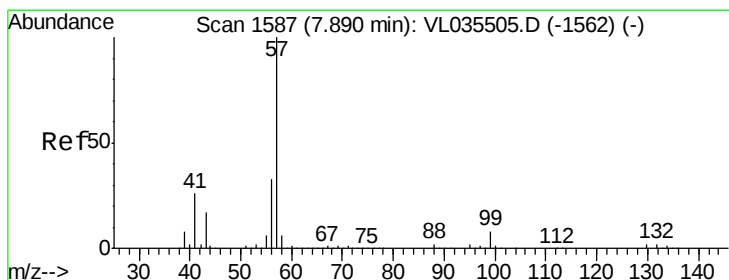
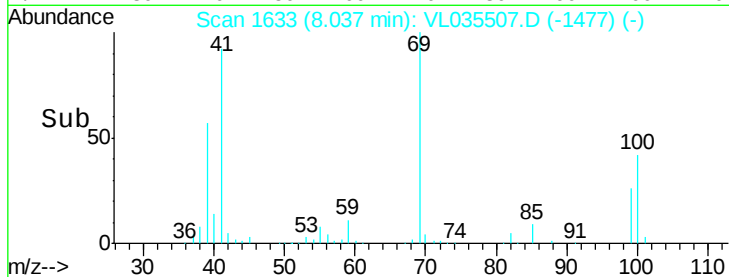
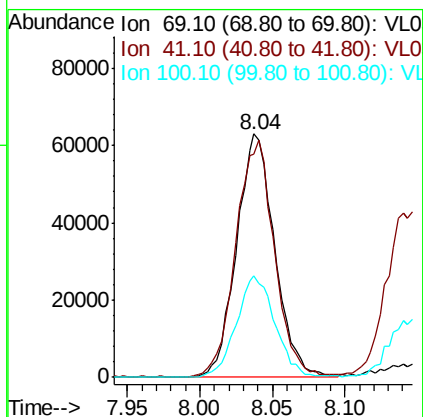
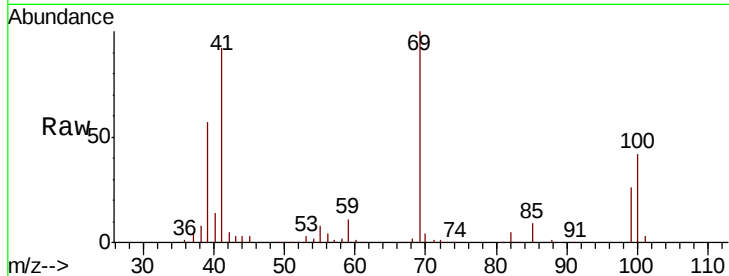




#43
Methyl Methacrylate
Concen: 0.961 ppbv
RT: 8.04 min Scan# 1633
Delta R.T. 0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

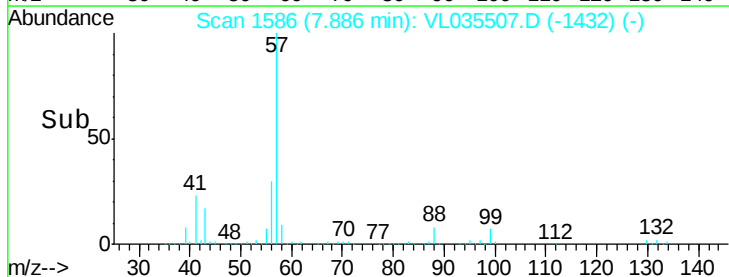
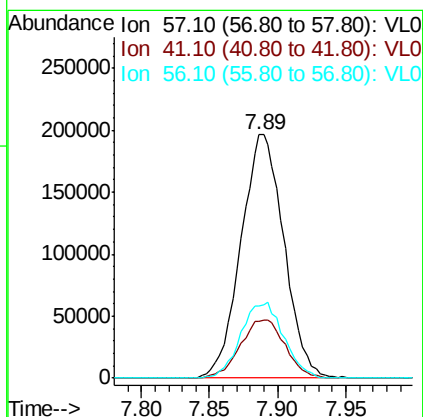
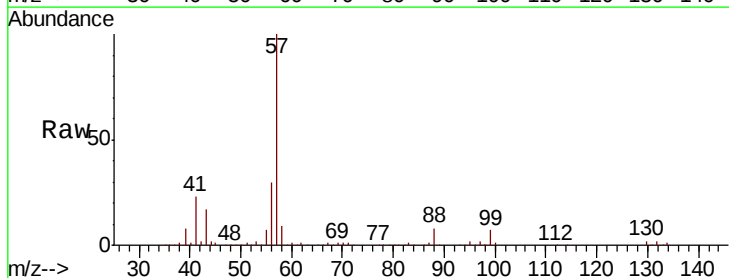
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

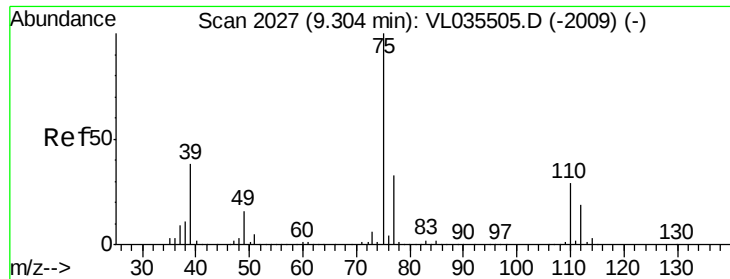
Tot Ion: 69 Resp: 115349
Ion Ratio Lower Upper
69 100
41 98.5 76.6 114.8
100 42.3 33.8 50.6



#44
2,2,4-Trimethylpentane
Concen: 1.058 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

Tgt Ion: 57 Resp: 429380
Ion Ratio Lower Upper
57 100
41 25.1 20.5 30.7
56 31.1 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 0.838 ppbv

RT: 9.30 min Scan# 2027

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

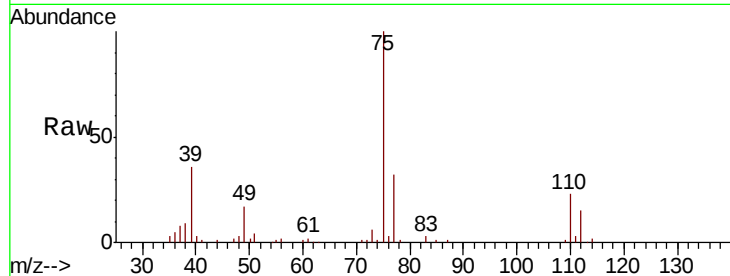
VSTDIC001

Tot Ion: 75 Resp: 102880

Ion Ratio Lower Upper

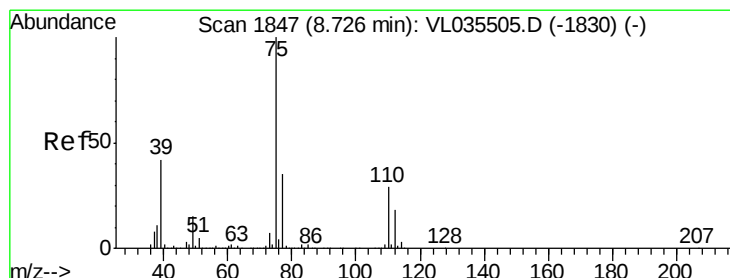
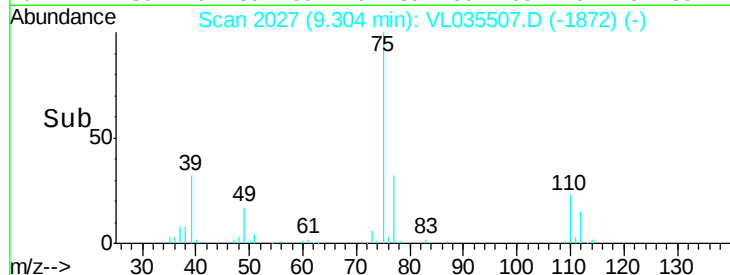
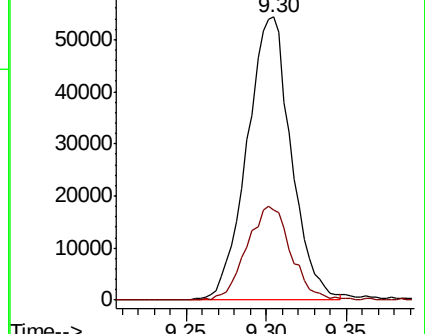
75 100

77 31.7 26.5 39.7



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.887 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

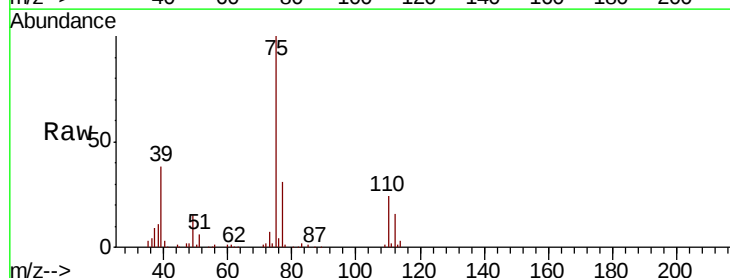
Tgt Ion: 75 Resp: 135000

Ion Ratio Lower Upper

75 100

39 37.8 33.7 50.5

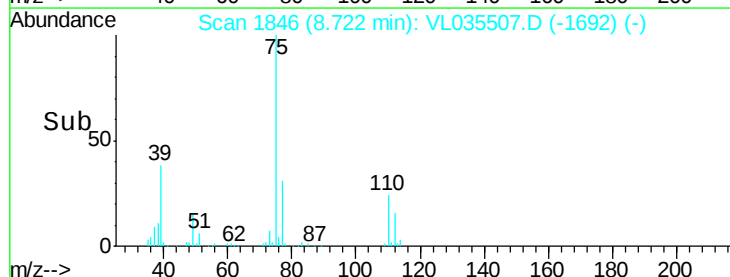
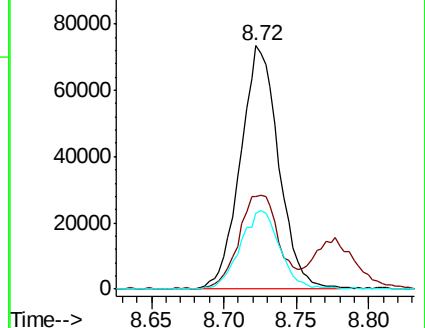
77 31.2 27.8 41.6

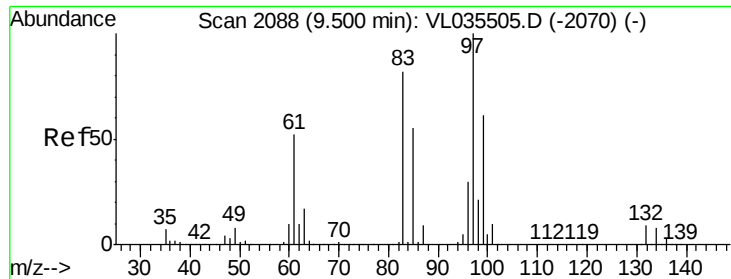


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

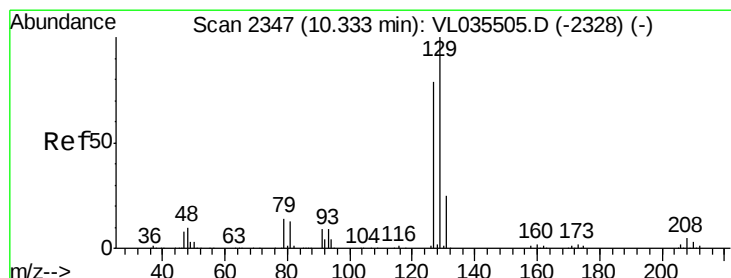
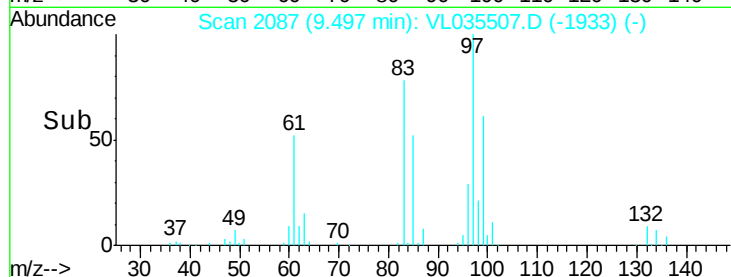
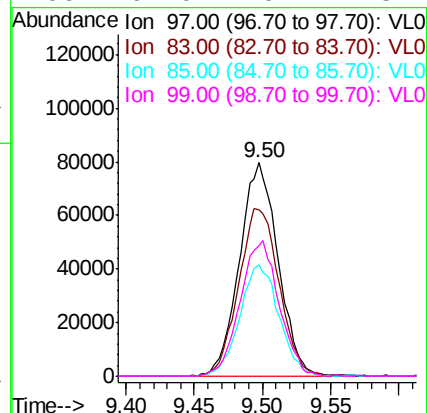
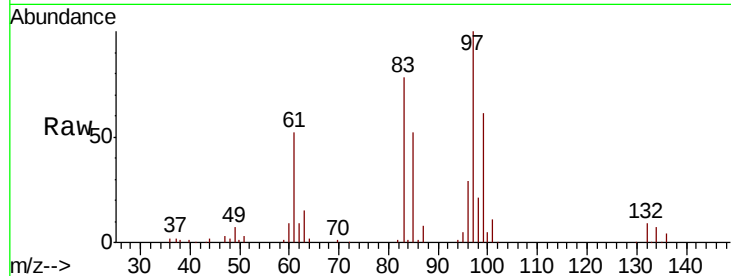




#47
 1,1,2-Trichloroethane
 Concen: 1.010 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

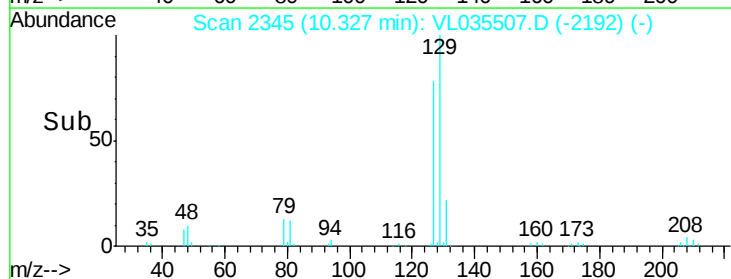
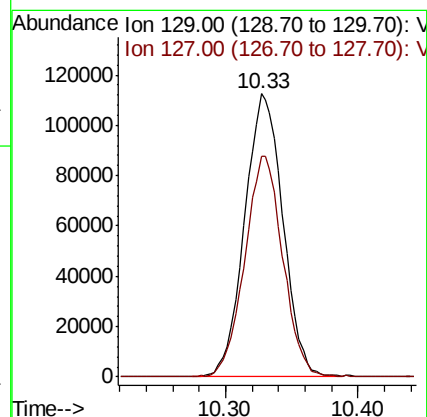
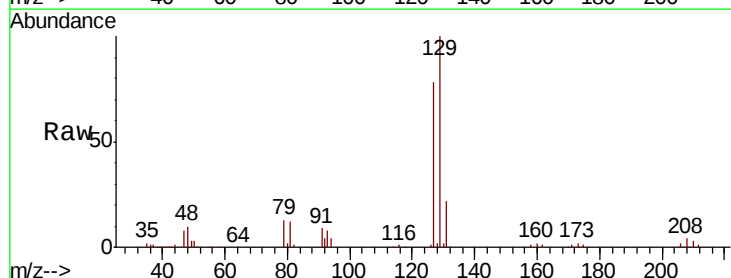
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

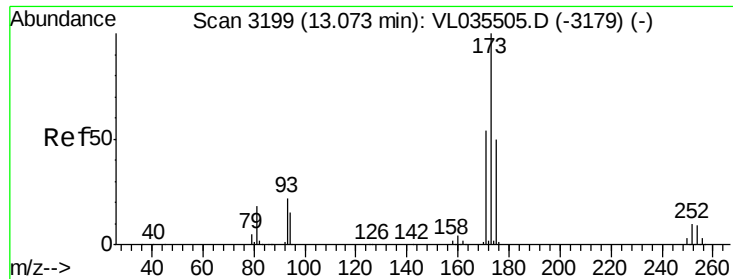
Tot Ion:	97	Resp:	156716
Ion	Ratio	Lower	Upper
97	100		
83	77.4	65.4	98.2
85	52.1	43.7	65.5
99	61.0	49.1	73.7



#48
 Dibromochloromethane
 Concen: 0.917 ppbv
 RT: 10.33 min Scan# 2345
 Delta R.T. -0.01 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Tgt Ion:	129	Resp:	225744
Ion	Ratio	Lower	Upper
129	100		
127	77.7	39.3	117.8





#49

Bromoform

Concen: 0.858 ppbv

RT: 13.07 min Scan# 3199

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

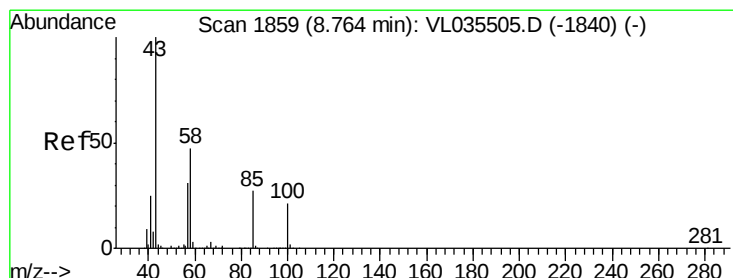
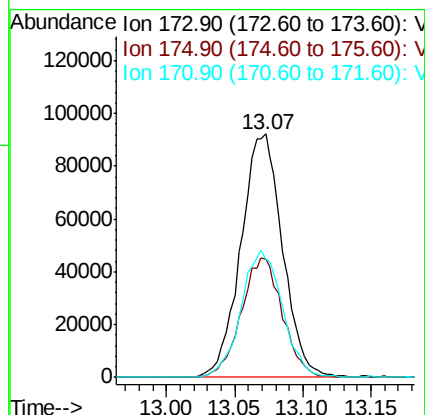
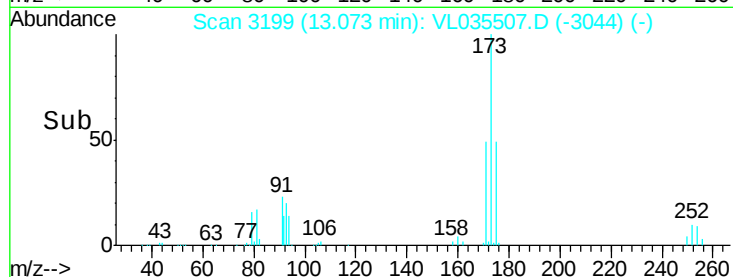
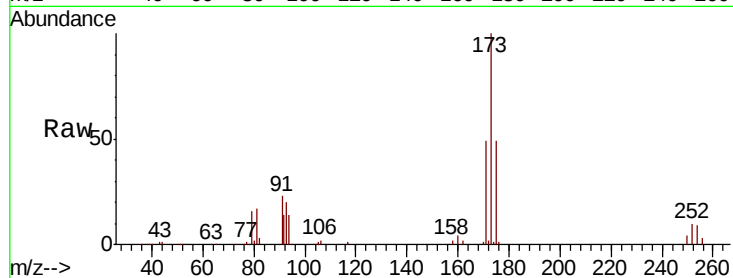
Tot Ion:173 Resp: 195765

Ion Ratio Lower Upper

173 100

175 48.4 39.8 59.8

171 51.8 42.4 63.6



#50

4-Methyl-2-Pentanone

Concen: 1.035 ppbv

RT: 8.77 min Scan# 1862

Delta R.T. 0.01 min

Lab File: VL035507.D

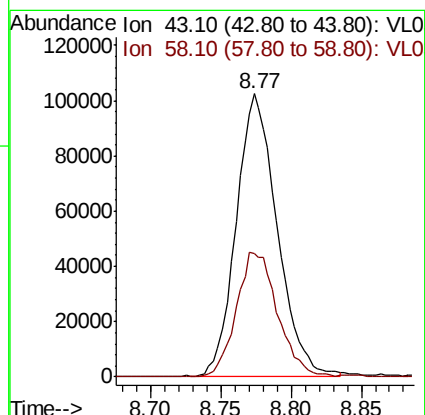
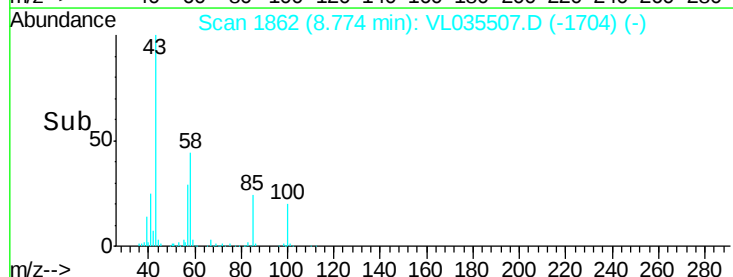
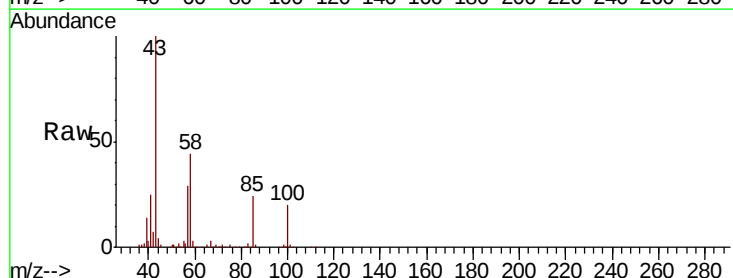
Acq: 27 Aug 2020 3:29

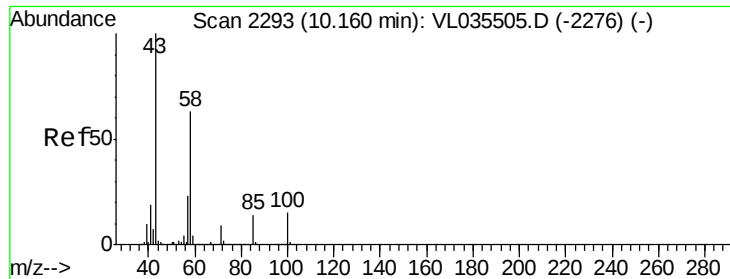
Tgt Ion: 43 Resp: 207713

Ion Ratio Lower Upper

43 100

58 45.1 37.4 56.0

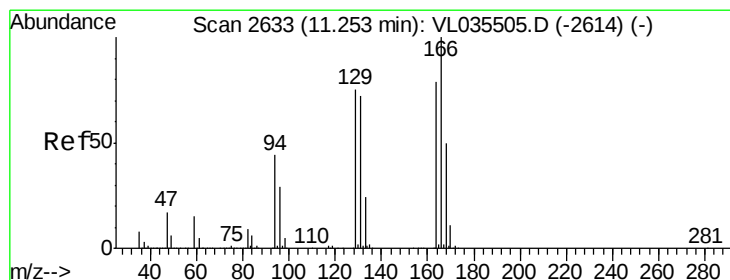
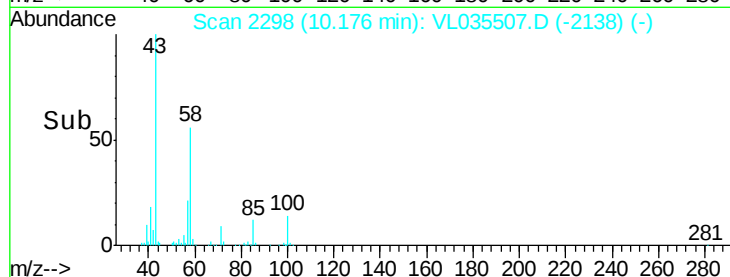
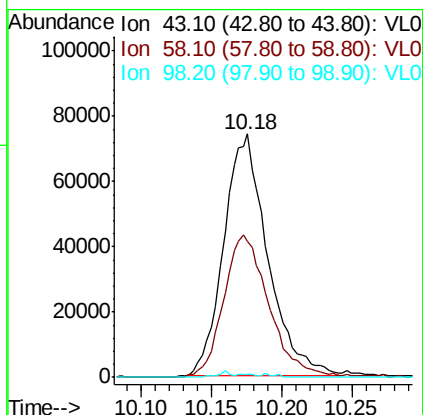
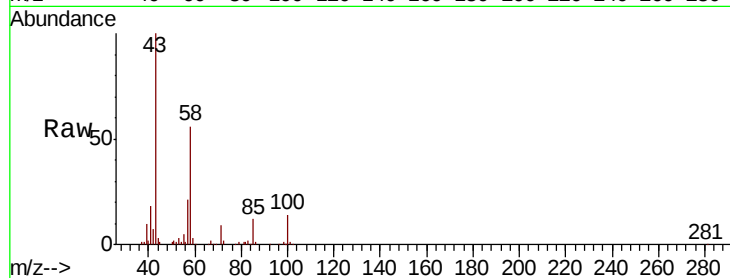




#51
2-Hexanone
Concen: 0.977 ppbv
RT: 10.18 min Scan# 2298
Delta R.T. 0.02 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

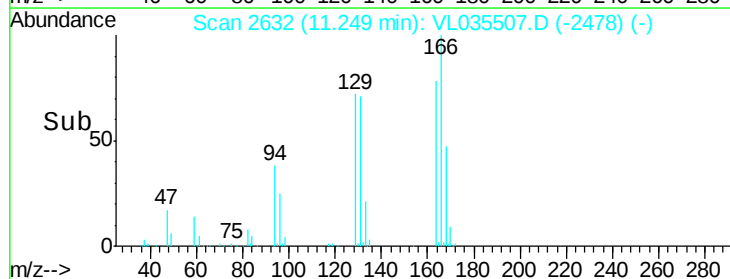
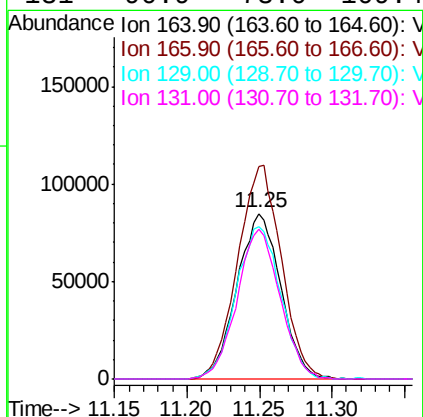
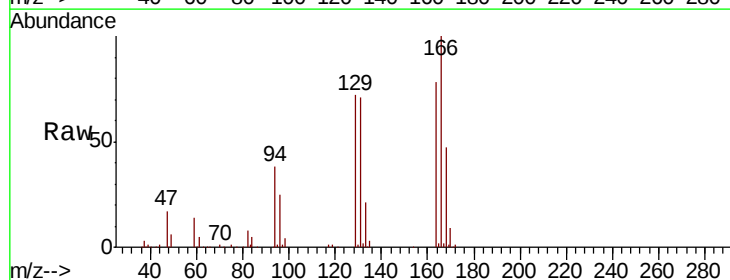
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

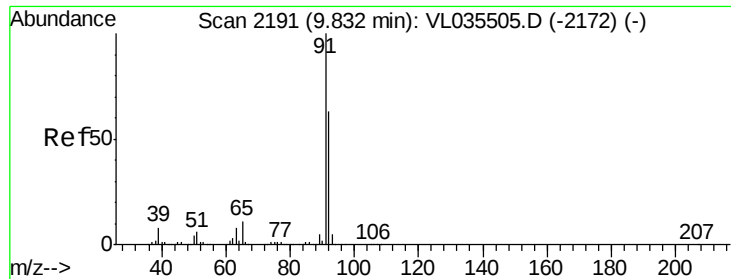
Tot Ion: 43 Resp: 160644
Ion Ratio Lower Upper
43 100
58 60.9 50.2 75.4
98 1.9 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.981 ppbv
RT: 11.25 min Scan# 2632
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

Tgt Ion: 164 Resp: 176425
Ion Ratio Lower Upper
164 100
166 128.3 100.9 151.3
129 92.4 75.3 112.9
131 90.9 73.0 109.4





#53

Toluene

Concen: 1.009 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

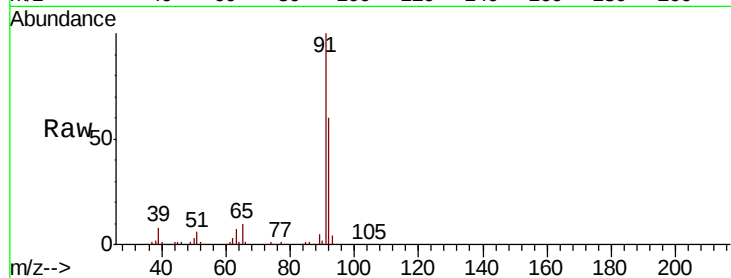
VSTDIC001

Tot Ion: 91 Resp: 395834

Ion Ratio Lower Upper

91 100

92 60.1 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.83

200000

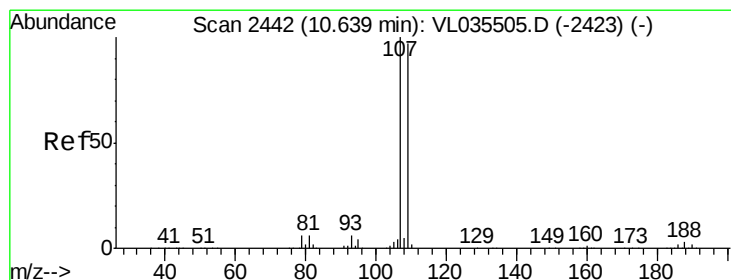
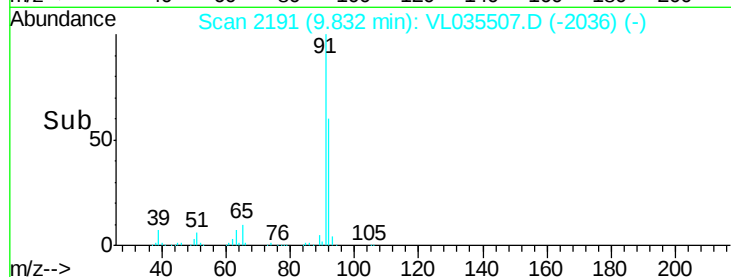
150000

100000

50000

0

Time-->



#54

1,2-Dibromoethane

Concen: 0.992 ppbv

RT: 10.64 min Scan# 2441

Delta R.T. -0.00 min

Lab File: VL035507.D

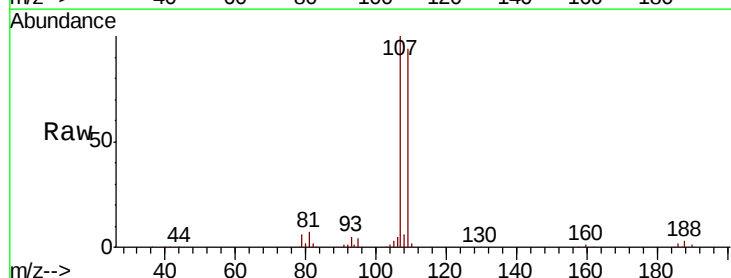
Acq: 27 Aug 2020 3:29

Tgt Ion: 107 Resp: 244245

Ion Ratio Lower Upper

107 100

109 93.7 77.8 116.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

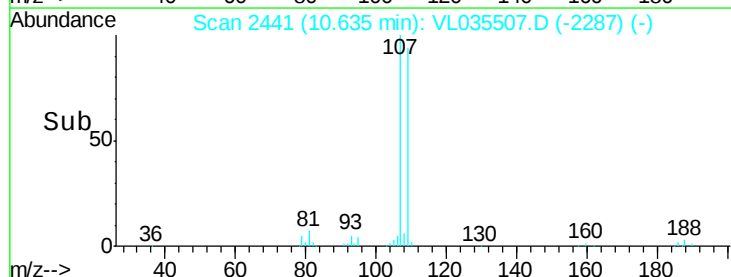
10.64

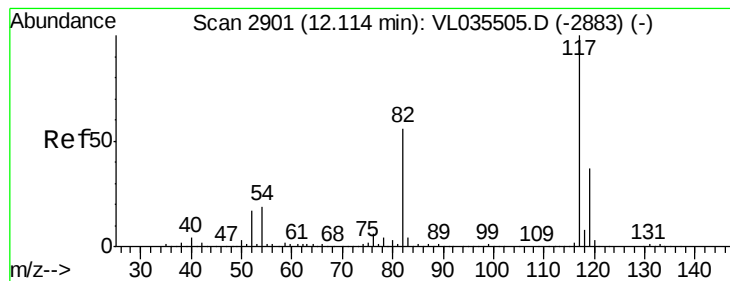
100000

50000

0

Time-->





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

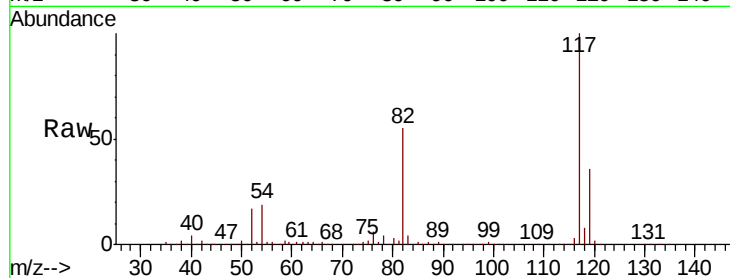
Tot Ion:117 Resp: 4802921

Ion Ratio Lower Upper

117 100

82 53.0 41.6 62.4

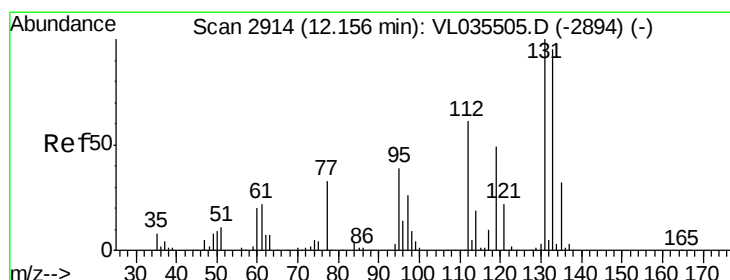
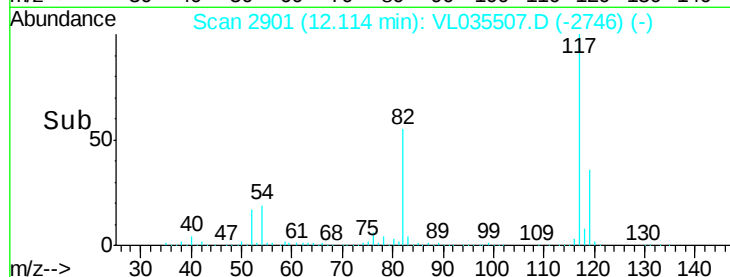
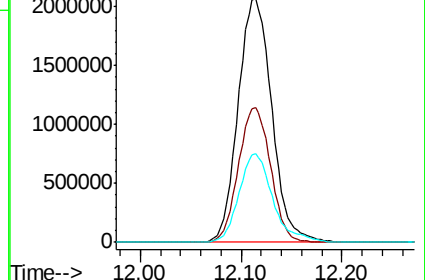
119 36.6 29.3 43.9



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



#56

1,1,1,2-Tetrachloroethane

Concen: 0.987 ppbv

RT: 12.15 min Scan# 2913

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

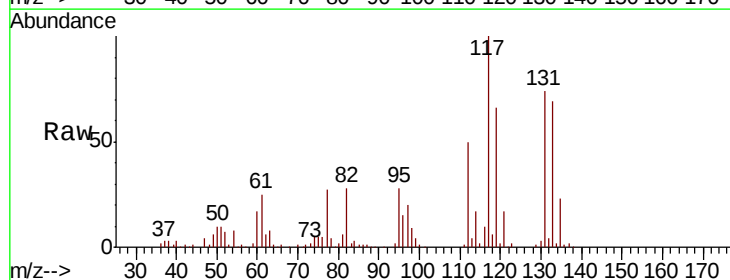
Tgt Ion:131 Resp: 197898

Ion Ratio Lower Upper

131 100

133 96.1 76.6 115.0

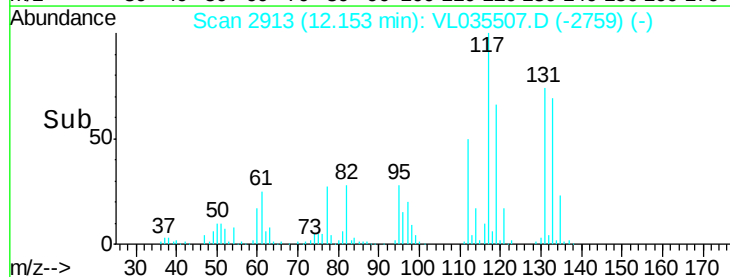
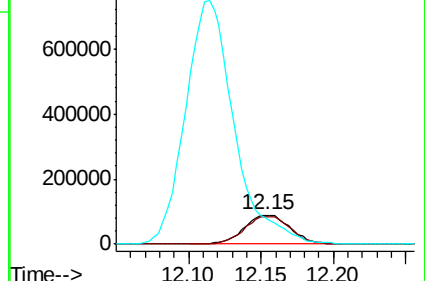
119 887.5 51.6 77.4#

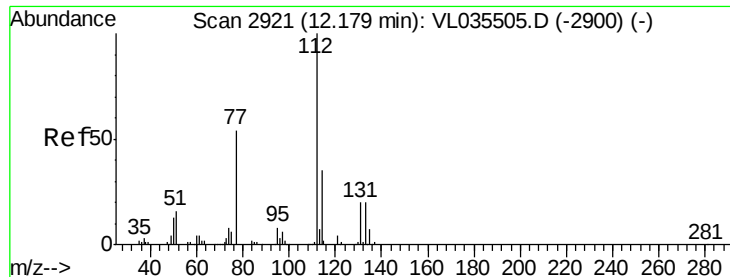


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

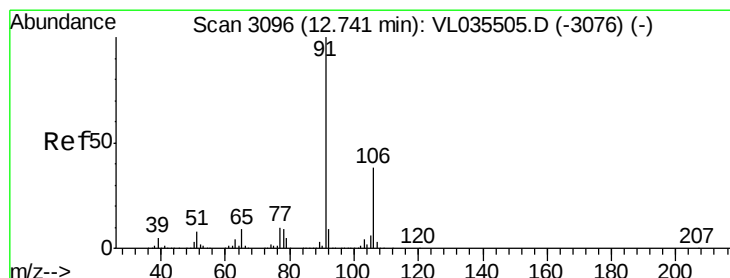
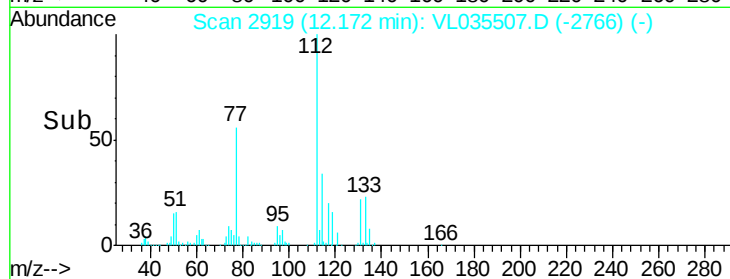
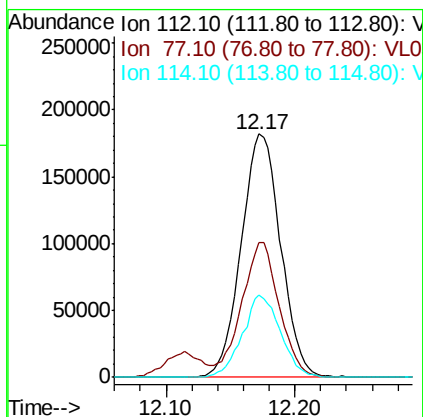
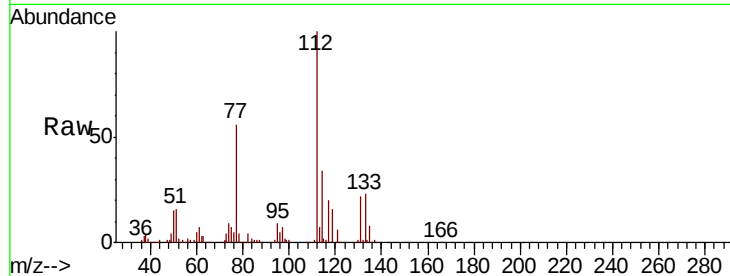




#57
Chlorobenzene
Concen: 1.087 ppbv
RT: 12.17 min Scan# 2919
Delta R.T. -0.01 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

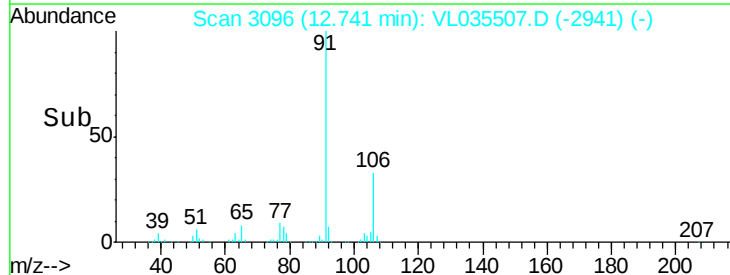
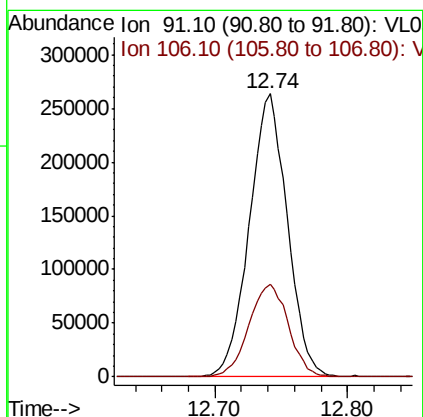
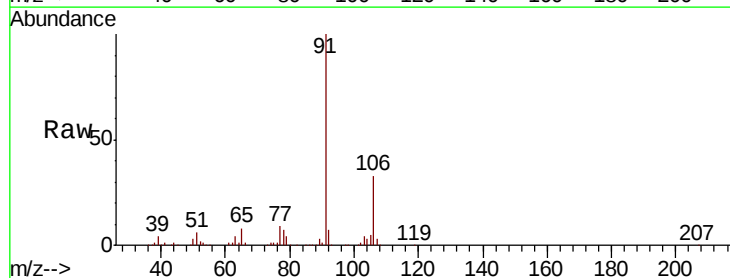
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

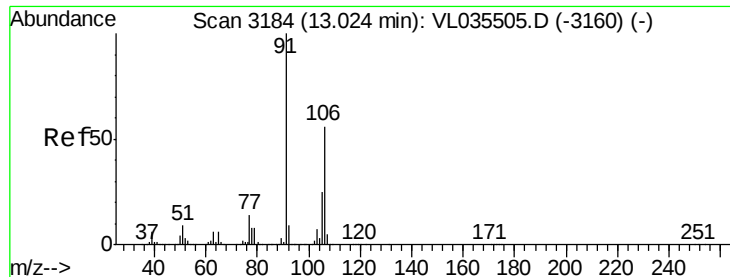
Tot Ion:112 Resp: 388163
Ion Ratio Lower Upper
112 100
77 55.4 44.2 66.4
114 33.6 31.6 38.6



#58
Ethyl Benzene
Concen: 1.036 ppbv
RT: 12.74 min Scan# 3096
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

Tgt Ion: 91 Resp: 527034
Ion Ratio Lower Upper
91 100
106 32.5 30.3 45.5

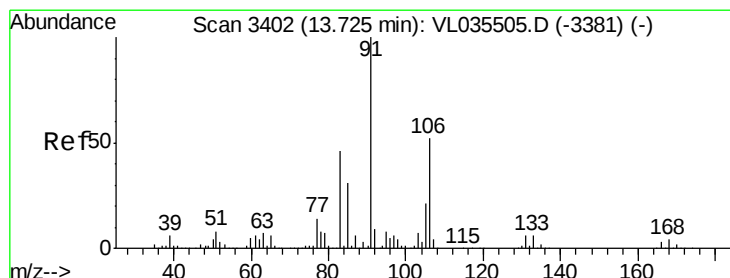
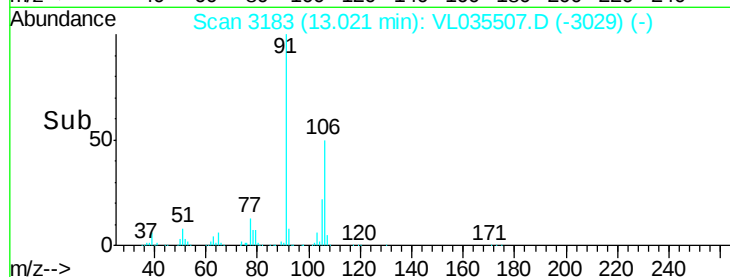
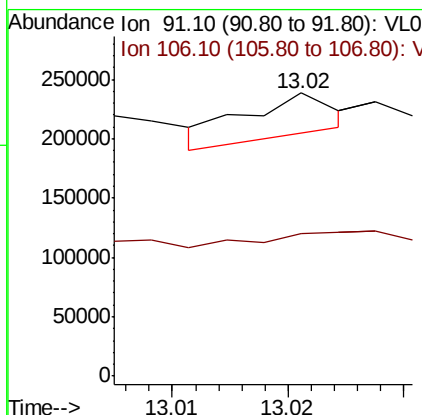
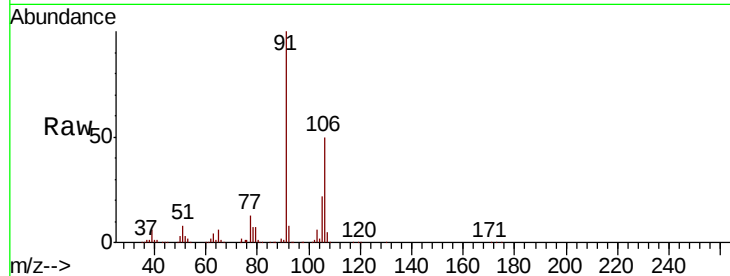




#59
m/p-Xylene
Concen: 0.046 ppbv
RT: 13.02 min Scan# 3183
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

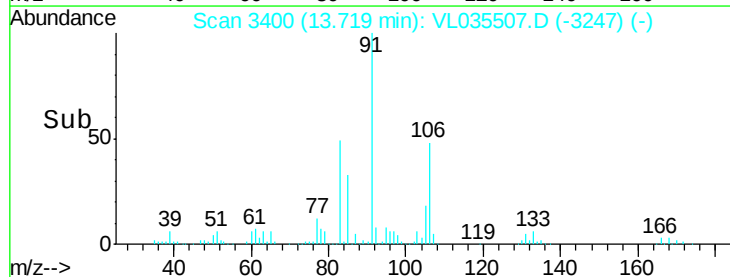
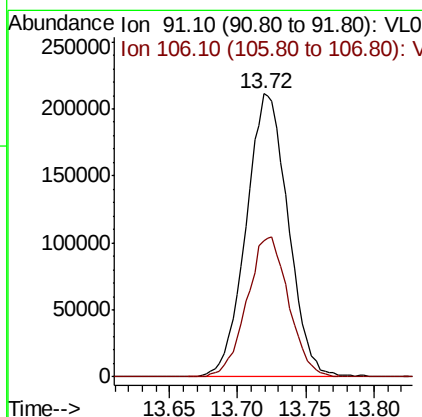
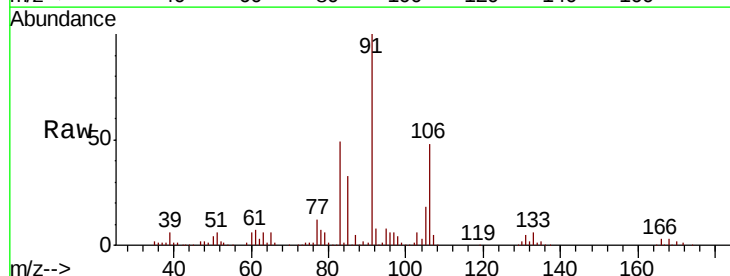
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

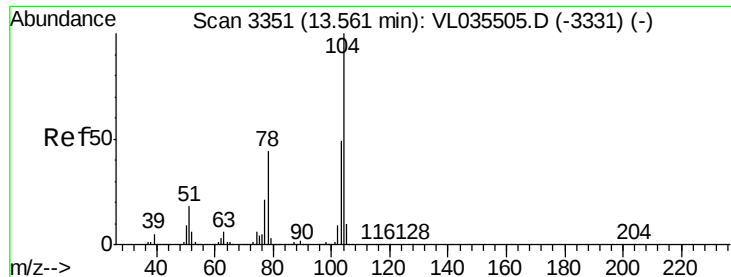
Tot Ion: 91 Resp: 19885
Ion Ratio Lower Upper
91 100
106 2333.6 43.4 65.2#



#60
o-Xylene
Concen: 1.059 ppbv
RT: 13.72 min Scan# 3400
Delta R.T. -0.01 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

Tgt Ion: 91 Resp: 451290
Ion Ratio Lower Upper
91 100
106 49.3 25.8 77.4





#61

Stvrene

Concen: 0.990 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

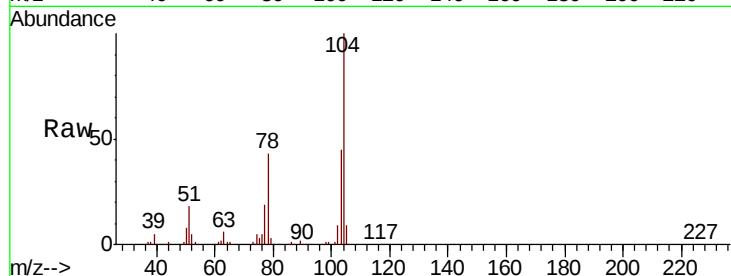
Tot Ion:104 Resp: 324806

Ion Ratio Lower Upper

104 100

78 42.1 34.8 52.2

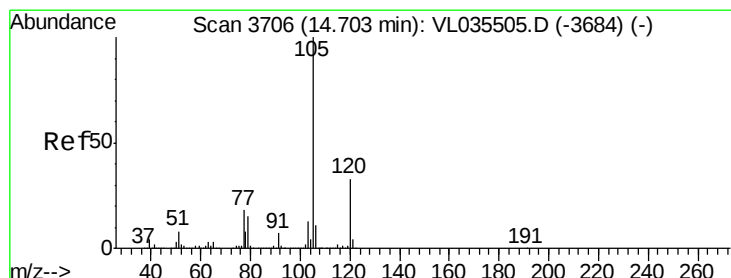
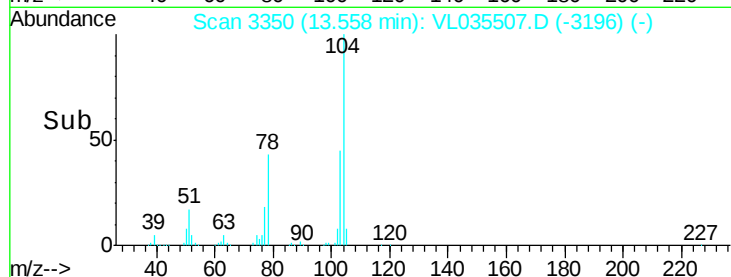
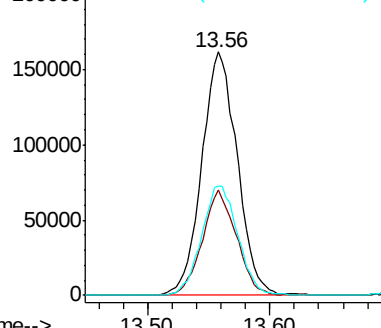
103 46.6 38.2 57.4



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.086 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. -0.00 min

Lab File: VL035507.D

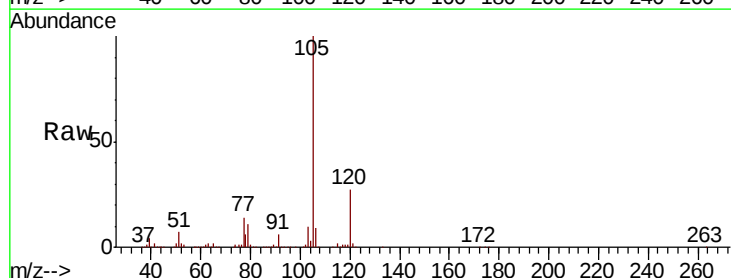
Acq: 27 Aug 2020 3:29

Tgt Ion:105 Resp: 747774

Ion Ratio Lower Upper

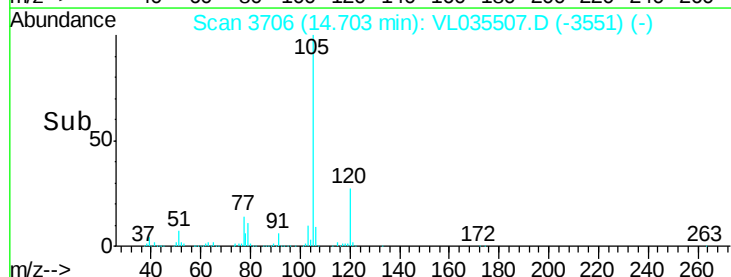
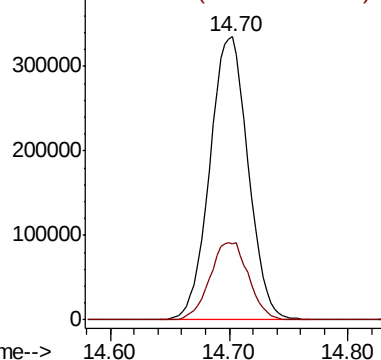
105 100

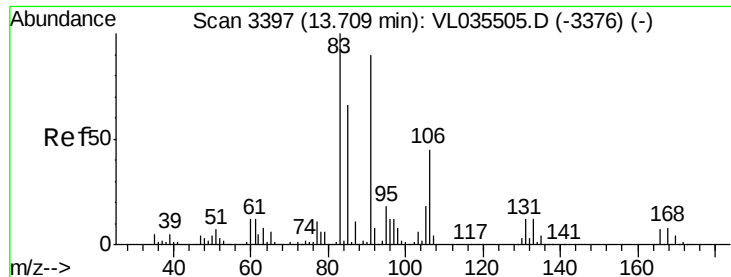
120 27.7 25.0 37.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

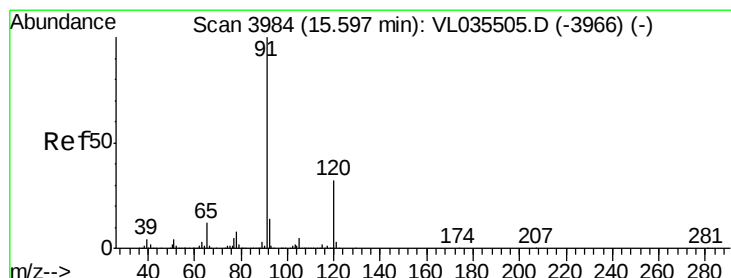
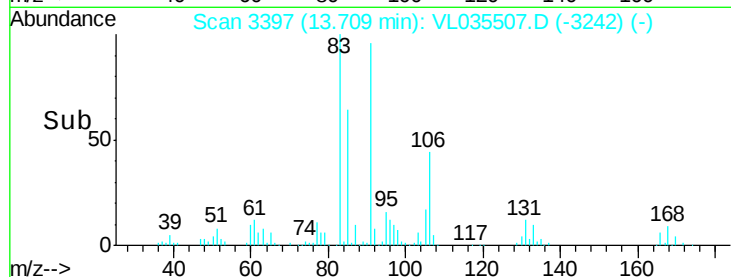
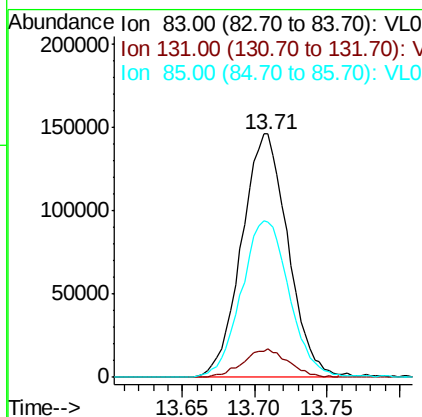
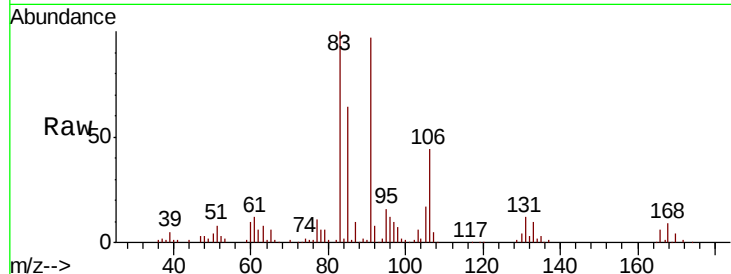




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.036 ppbv
 RT: 13.71 min Scan# 3397
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

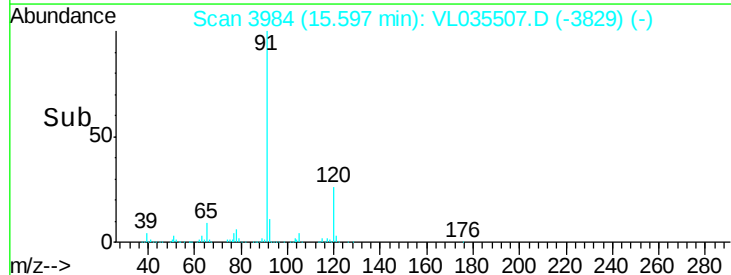
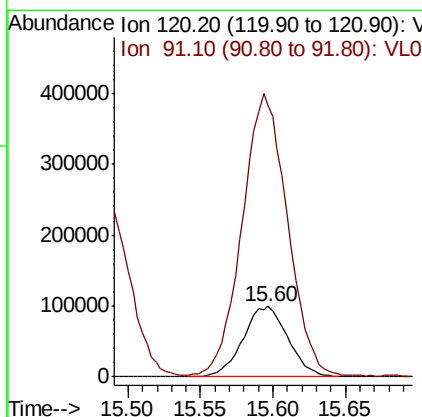
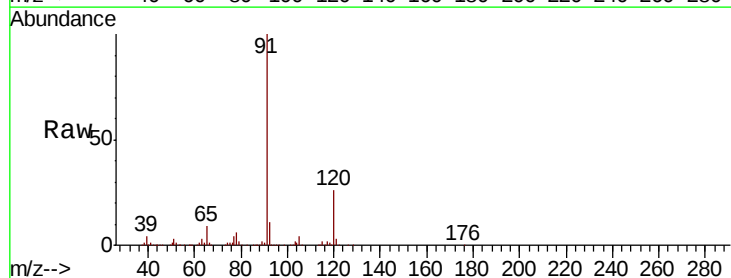
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

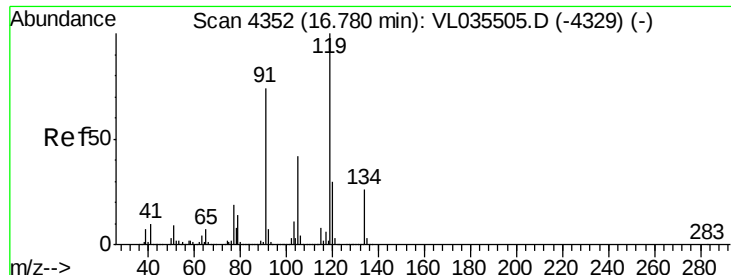
Tot Ion	83	Resp	322657
Ion Ratio	Lower	Upper	
83	100		
131	11.5	6.0	18.0
85	67.5	33.4	100.2



#64
 n-propylbenzene
 Concen: 1.026 ppbv
 RT: 15.60 min Scan# 3984
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Tgt Ion	120	Resp	215104
Ion Ratio	Lower	Upper	
120	100		
91	403.1	279.4	419.0

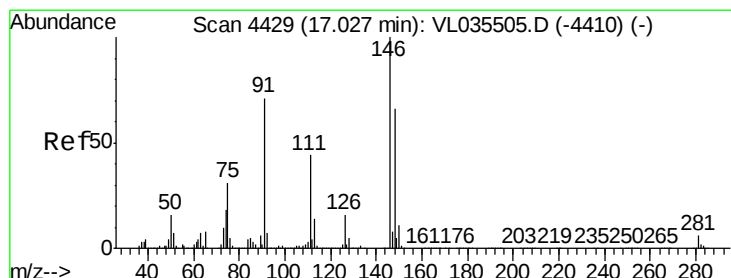
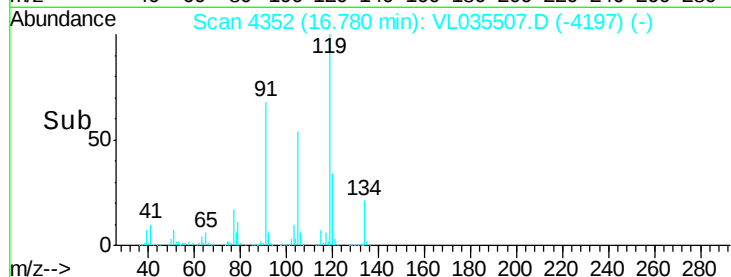
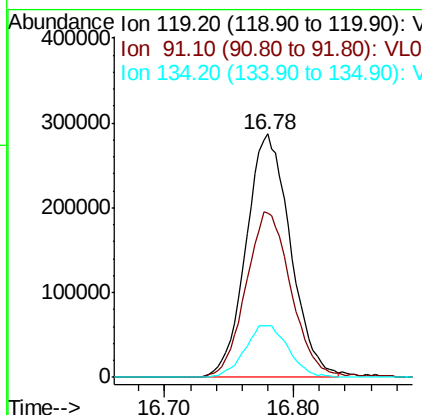
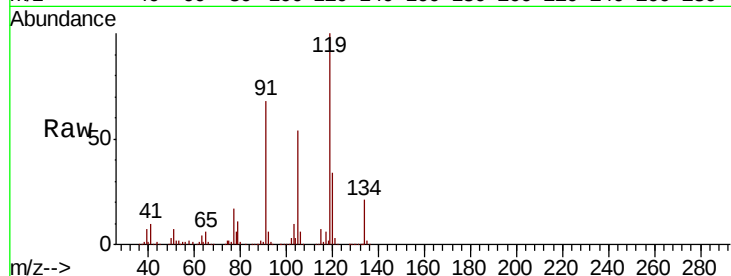




#65
tert-Butylbenzene
Concen: 1.048 ppbv
RT: 16.78 min Scan# 4352
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

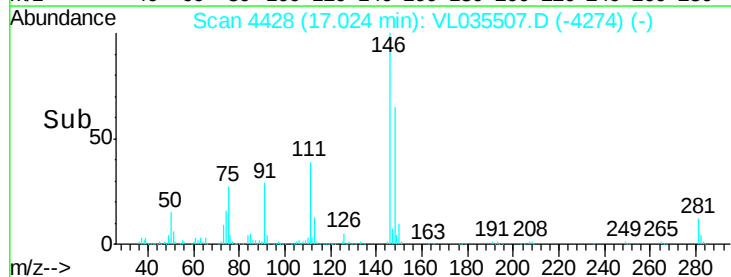
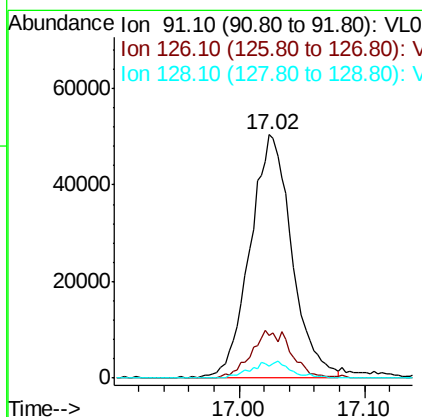
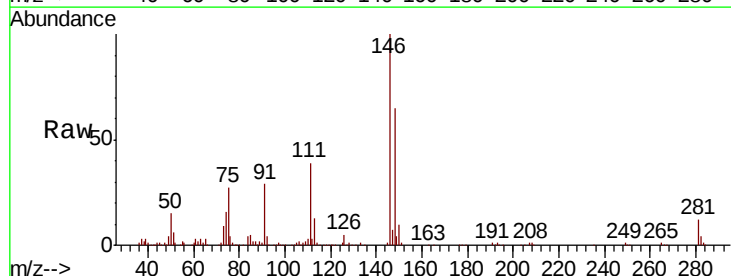
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

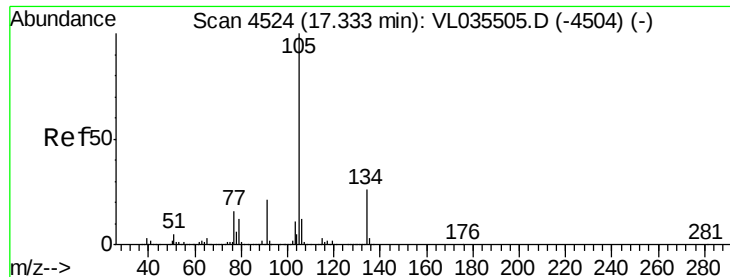
Tot Ion	Ratio	Lower	Upper
119	100		
91	70.0	58.6	87.8
134	21.2	18.9	28.3



#66
Benzyl Chloride
Concen: 0.735 ppbv
RT: 17.02 min Scan# 4428
Delta R.T. -0.00 min
Lab File: VL035507.D
Acq: 27 Aug 2020 3:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.8	17.2	25.8
128	6.4	5.5	8.3





#67

sec-Butylbenzene

Concen: 1.075 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

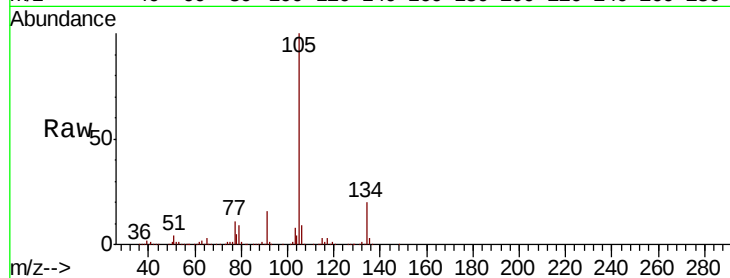
VSTDIC001

Tot Ion:105 Resp: 934390

Ion Ratio Lower Upper

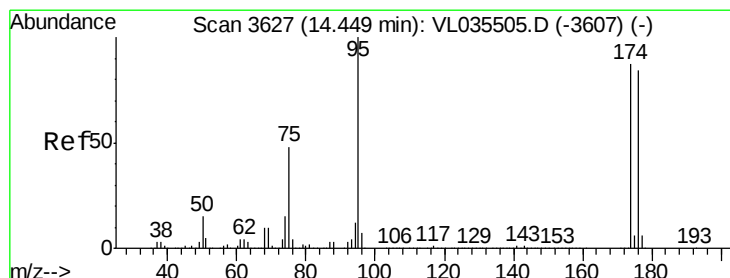
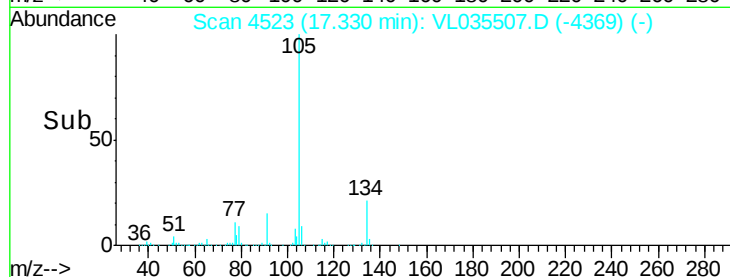
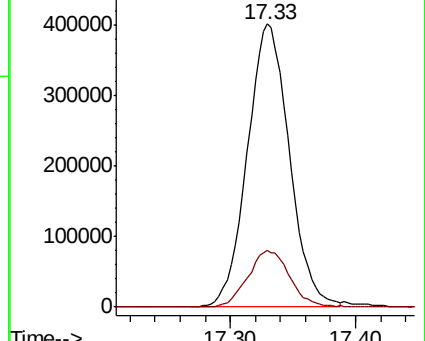
105 100

134 20.2 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: 10.111 ppbv

RT: 14.45 min Scan# 3626

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

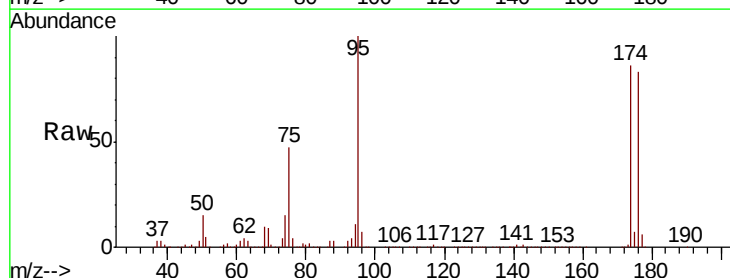
Tgt Ion: 95 Resp: 3442439

Ion Ratio Lower Upper

95 100

174 88.0 69.6 104.4

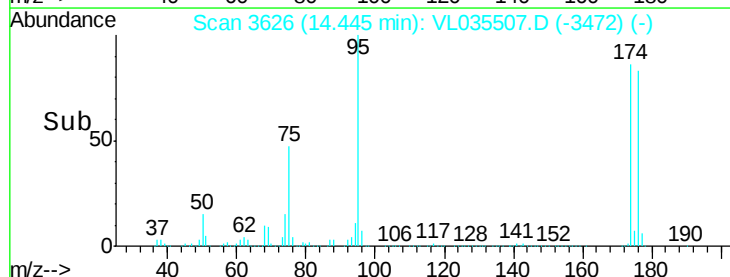
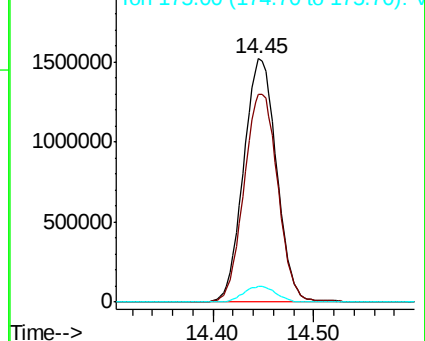
175 6.4 5.1 7.7

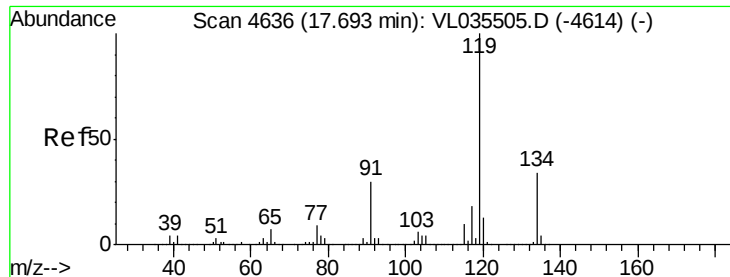


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

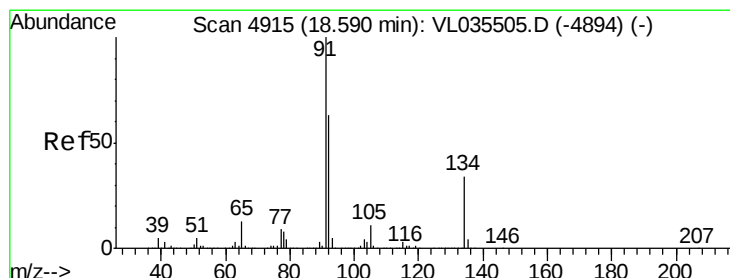
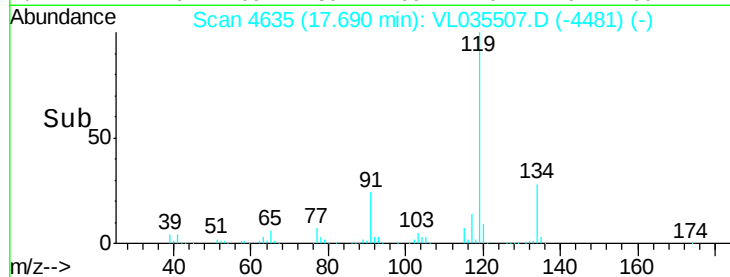
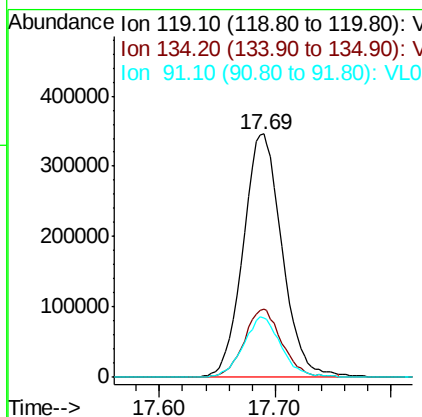
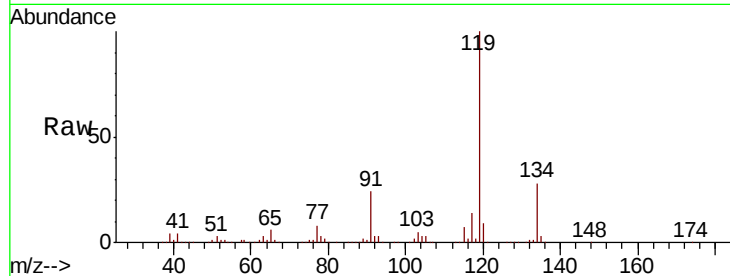




#69
 p-Isopropyltoluene
 Concen: 1.062 ppbv
 RT: 17.69 min Scan# 4635
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

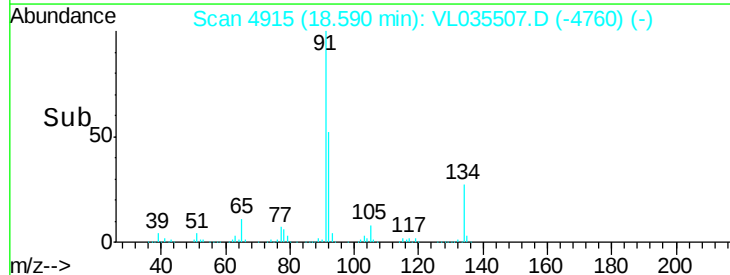
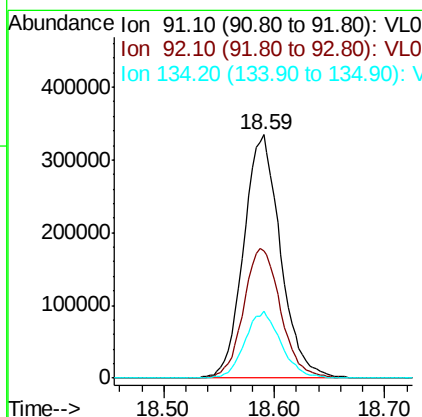
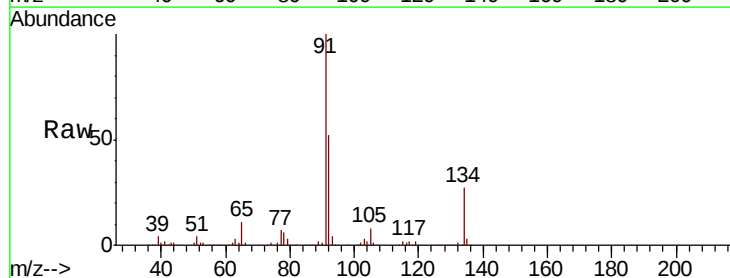
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

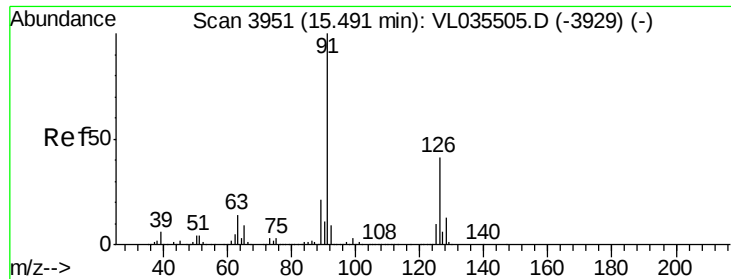
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.5	25.0	37.4
91	24.5	22.3	33.5



#70
 n-Butylbenzene
 Concen: 1.065 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	47.3	70.9
134	26.9	24.6	37.0

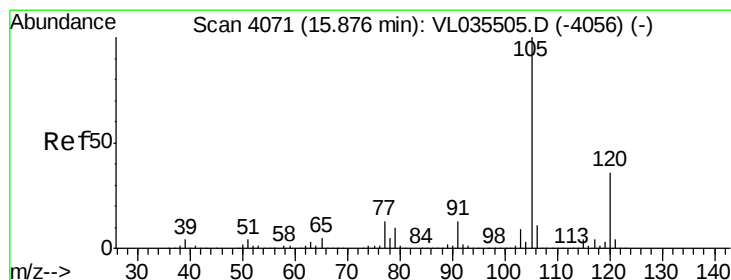
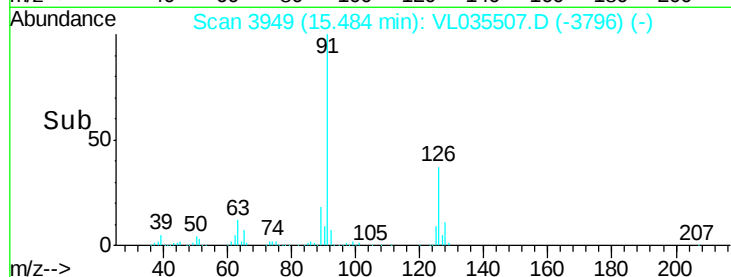
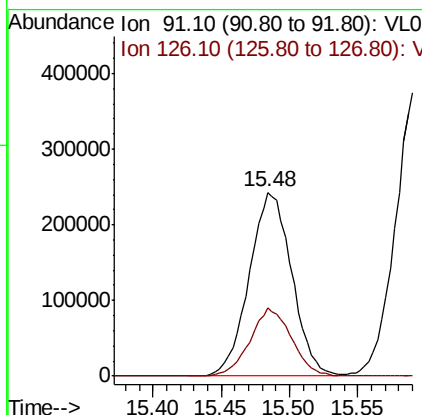
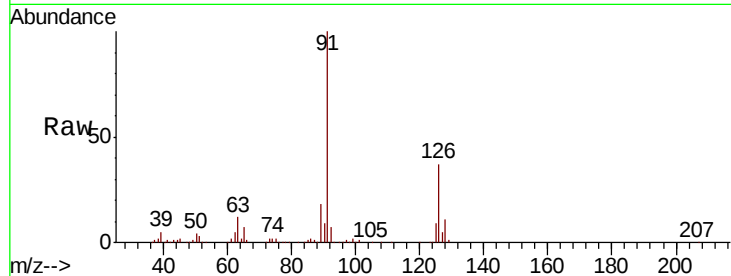




#71
 2-Chlorotoluene
 Concen: 1.055 ppbv
 RT: 15.48 min Scan# 3949
 Delta R.T. -0.01 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

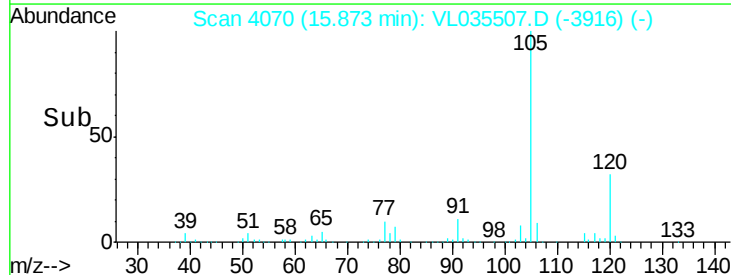
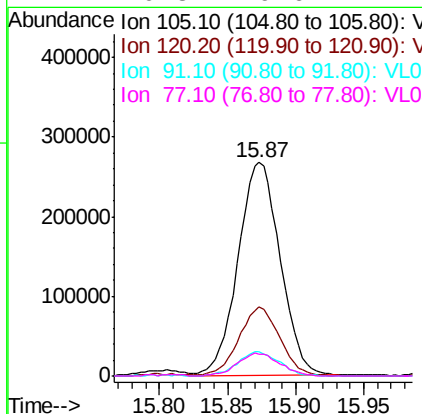
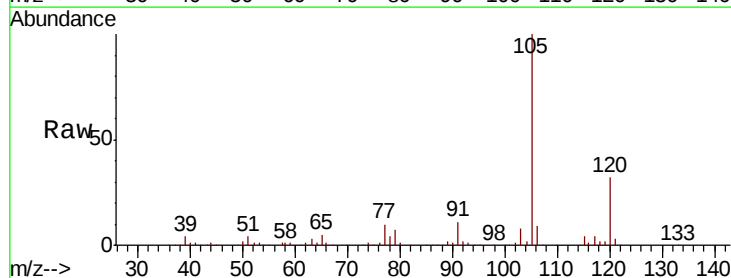
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

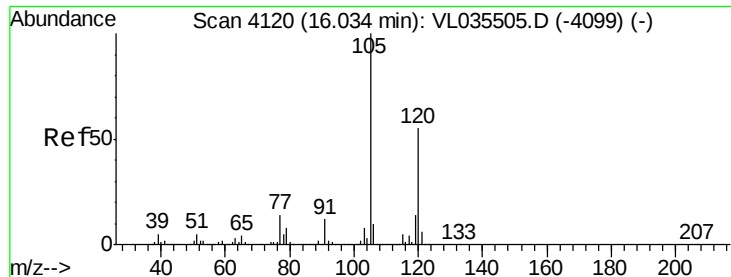
Tot Ion: 91 Resp: 525848
 Ion Ratio Lower Upper
 91 100
 126 36.3 15.6 62.6



#72
 4-Ethyltoluene
 Concen: 1.052 ppbv
 RT: 15.87 min Scan# 4070
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Tgt Ion: 105 Resp: 571669
 Ion Ratio Lower Upper
 105 100
 120 31.3 27.4 41.2
 91 11.1 9.7 14.5
 77 10.8 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 1.052 ppbv

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

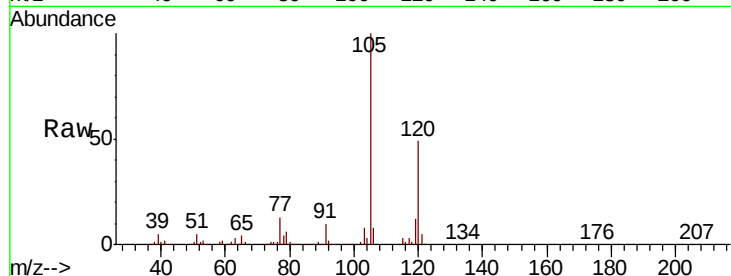
VSTDIC001

Tot Ion:105 Resp: 528595

Ion Ratio Lower Upper

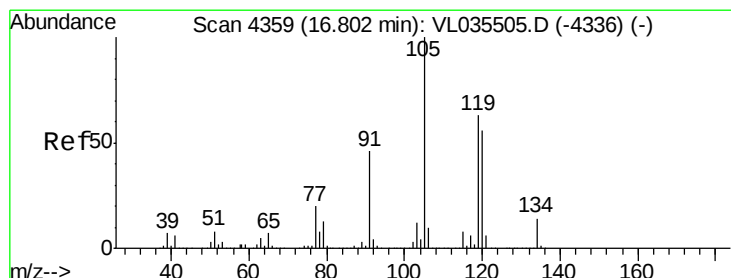
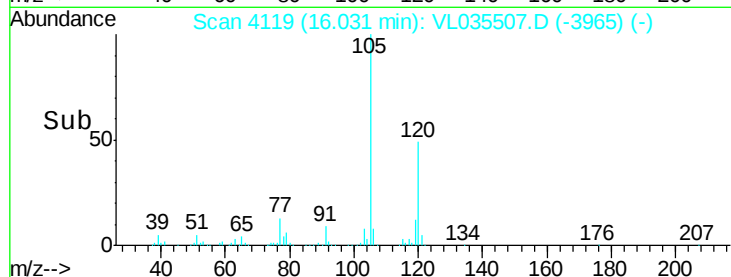
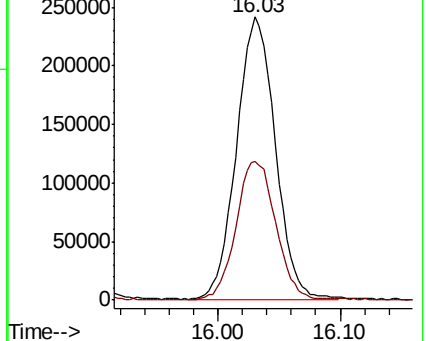
105 100

120 49.1 44.2 66.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.079 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. -0.01 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Tgt Ion:105 Resp: 594915

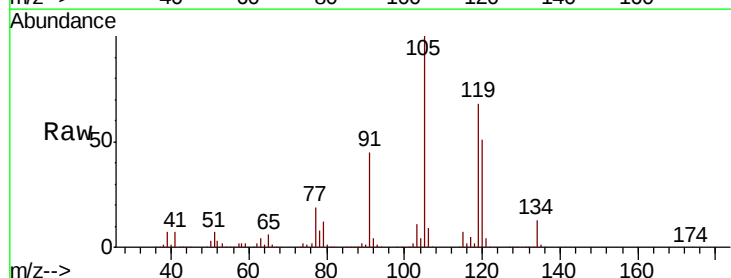
Ion Ratio Lower Upper

105 100

120 51.4 44.4 66.6

91 44.4 37.1 55.7

77 18.8 16.0 24.0

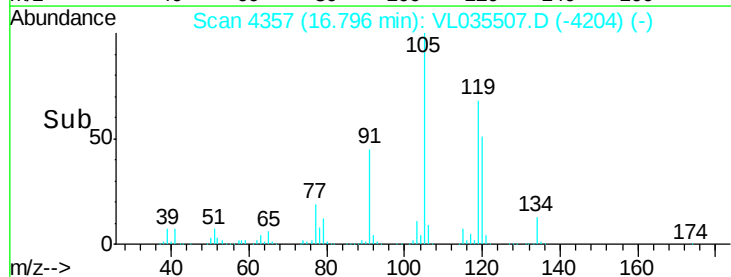
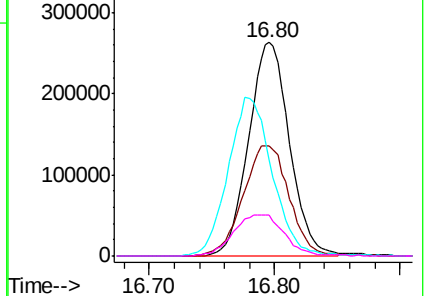


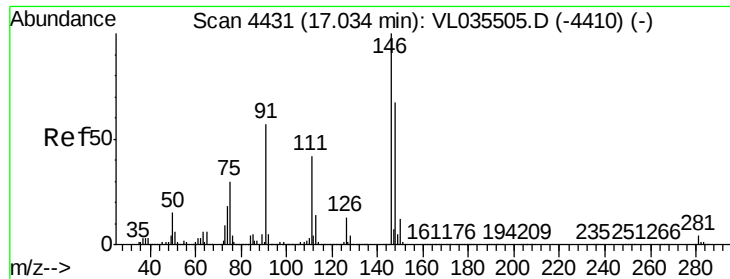
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 1.054 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

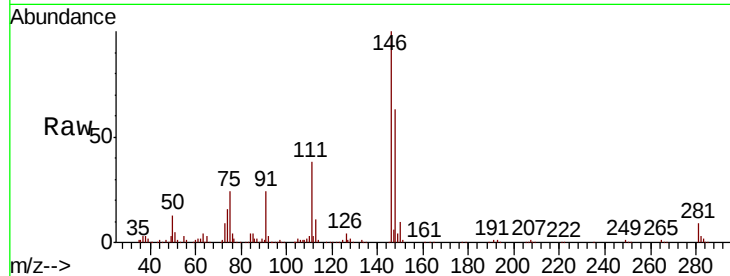
Tot Ion:146 Resp: 435373

Ion Ratio Lower Upper

146 100

111 39.2 20.7 62.1

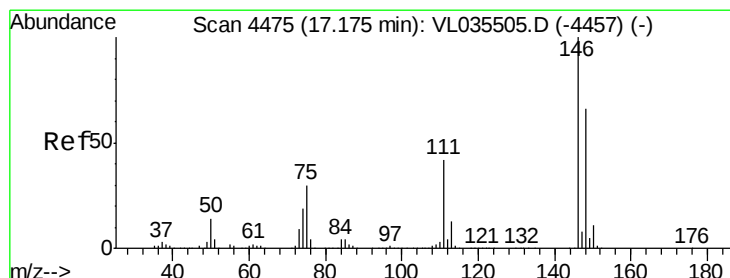
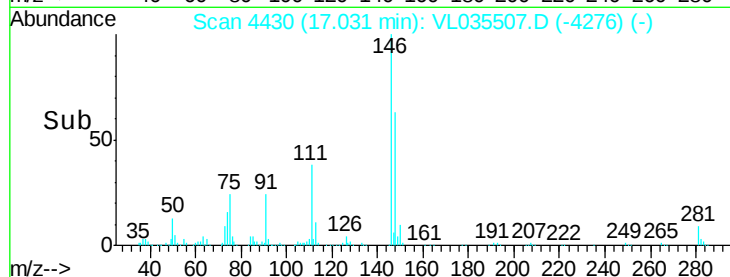
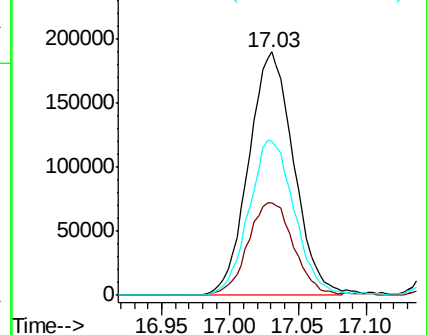
148 64.9 33.0 98.9



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: 1.027 ppbv

RT: 17.18 min Scan# 4475

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

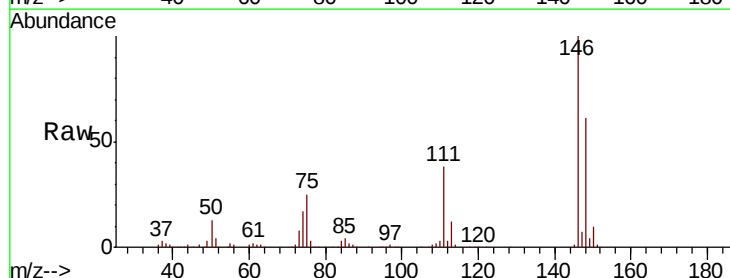
Tgt Ion:146 Resp: 423670

Ion Ratio Lower Upper

146 100

111 38.9 20.0 60.0

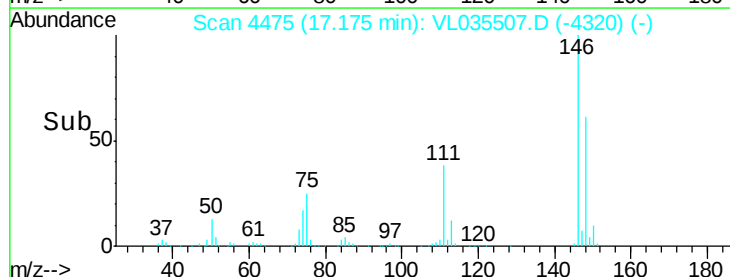
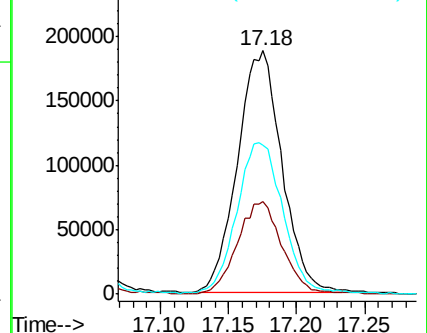
148 66.1 33.2 99.6

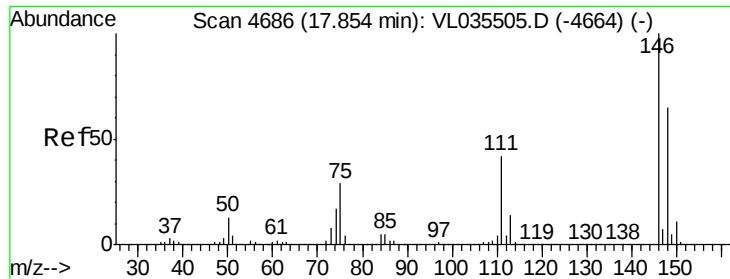


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 1.021 ppbv

RT: 17.85 min Scan# 4686

Delta R.T. -0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

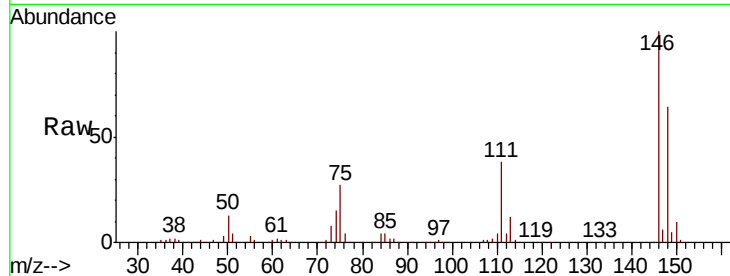
Tot Ion:146 Resp: 415482

Ion Ratio Lower Upper

146 100

111 40.7 21.1 63.3

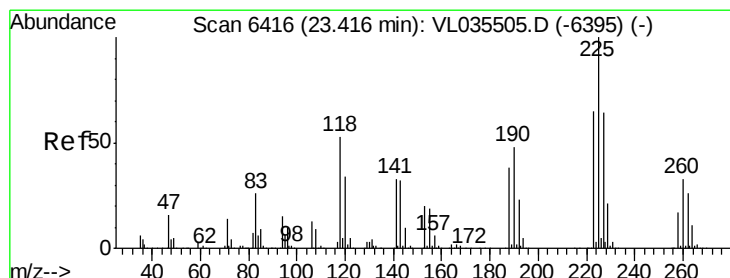
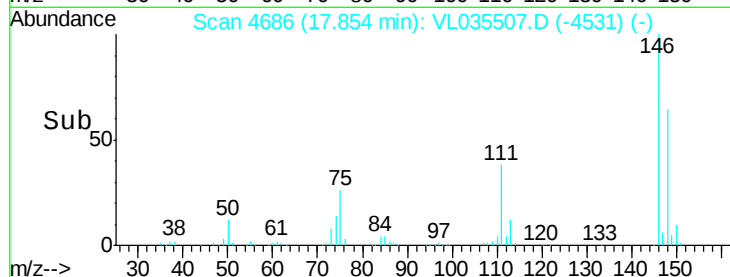
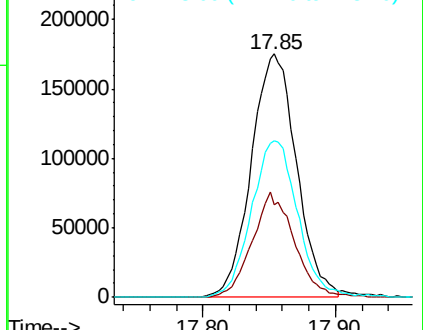
148 65.9 32.9 98.7



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: 0.960 ppbv

RT: 23.42 min Scan# 6417

Delta R.T. 0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

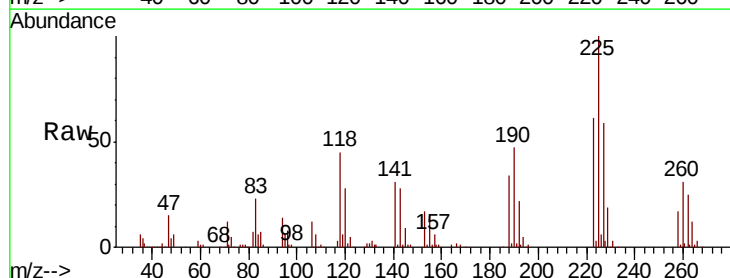
Tgt Ion:225 Resp: 268063

Ion Ratio Lower Upper

225 100

223 61.2 51.7 77.5

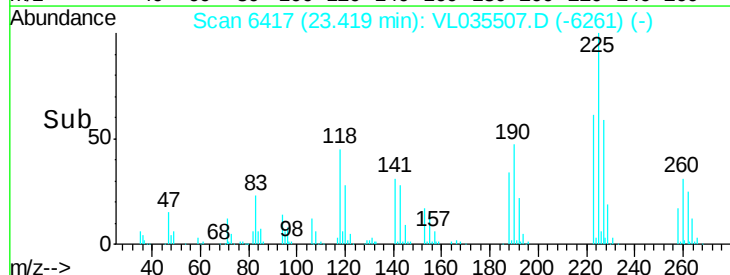
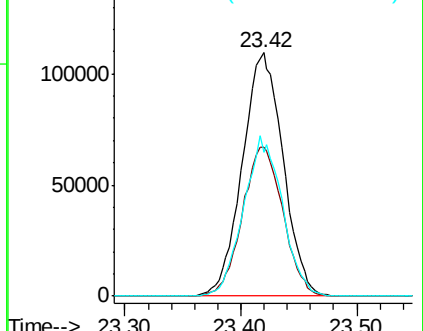
227 62.6 51.5 77.3

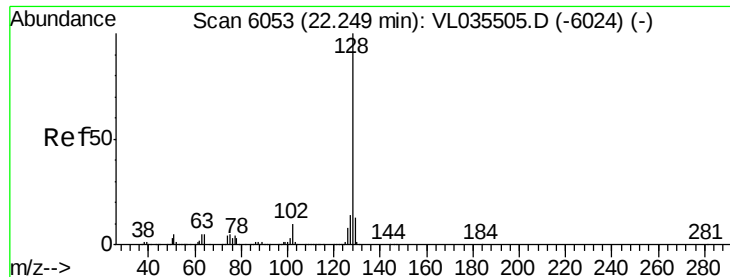


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.884 ppbv

RT: 22.25 min Scan# 6054

Delta R.T. 0.00 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

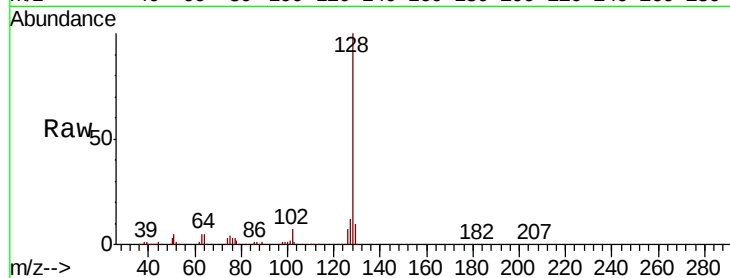
Tot Ion:128 Resp: 606220

Ion Ratio Lower Upper

128 100

127 12.1 11.4 17.2

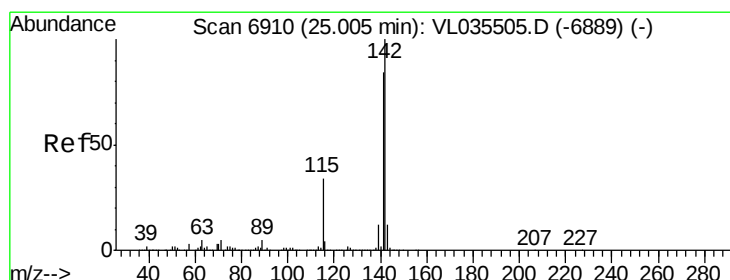
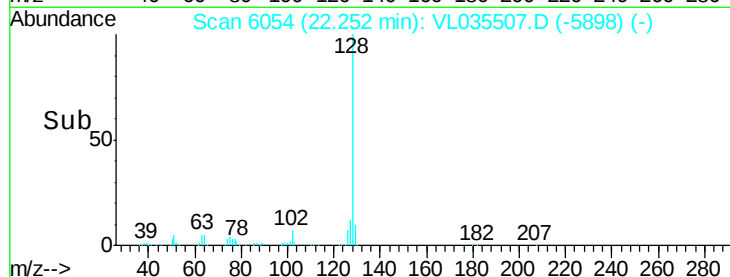
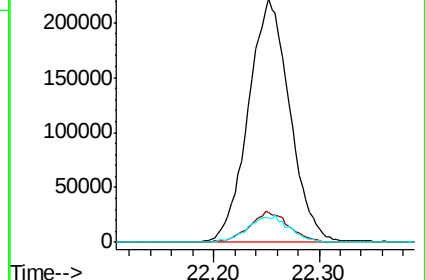
129 10.0 10.5 15.7#



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: 0.626 ppbv

RT: 25.01 min Scan# 6912

Delta R.T. 0.01 min

Lab File: VL035507.D

Acq: 27 Aug 2020 3:29

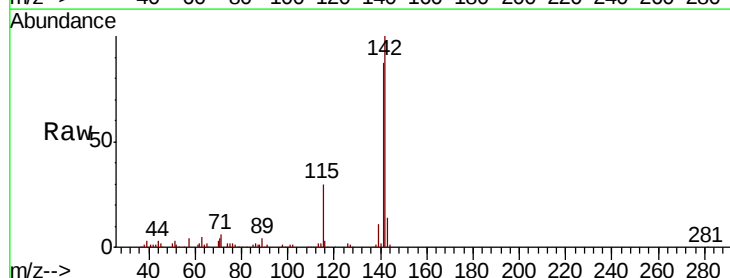
Tgt Ion:142 Resp: 168941

Ion Ratio Lower Upper

142 100

141 84.3 67.6 101.4

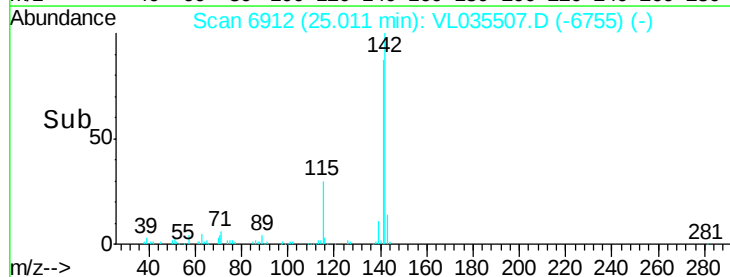
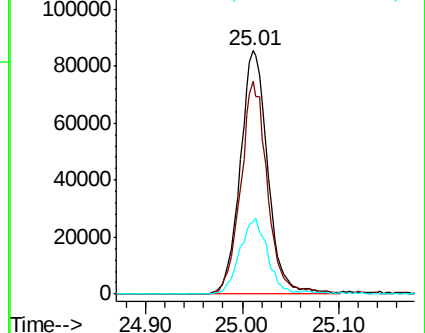
115 31.8 25.8 38.8

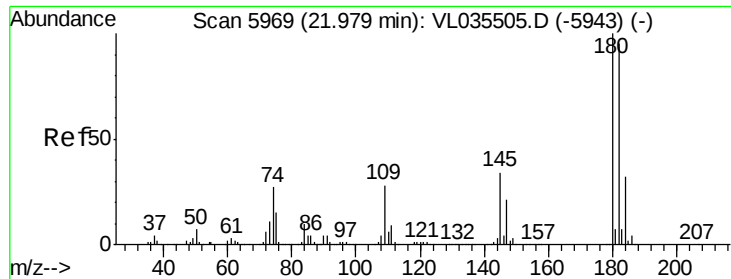


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.920 ppbv
 RT: 21.98 min Scan# 5969
 Delta R.T. -0.00 min
 Lab File: VL035507.D
 Acq: 27 Aug 2020 3:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion:	180	Resp:	371185
Ion	Ratio	Lower	Upper
180	100		
182	96.9	76.3	114.5
184	30.2	25.3	37.9

