

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035511.D
 Acq On : 27 Aug 2020 6:02
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Aug 27 06:35:08 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	5.69	49	991753	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4513389	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4860686	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	3389370	9.84	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	1907685	10.518	ppbv	99
3) Chlorodifluoromethane	2.99	51	1562767	13.956	ppbv	98
4) Chloromethane	3.14	50	854965	14.668	ppbv	100
5) Vinyl Chloride	3.26	62	1012100	14.772	ppbv	97
6) Bromomethane	3.48	94	900231	14.329	ppbv	99
7) Chloroethane	3.56	64	382338	14.609	ppbv	99
8) Dichlorotetrafluoroethane	3.19	85	2632785	12.227	ppbv	98
9) Propene	3.01	41	619622	14.225	ppbv	99
10) Heptane	8.15	43	1698571	14.643	ppbv	99
11) Trichlorofluoromethane	3.96	101	3496612	13.363	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2696331	13.807	ppbv	99
13) Ethanol	3.62	45	136611	11.179	ppbv	97
14) Bromoethene	3.75	108	1243407	14.635	ppbv	98
15) Acetone	3.86	43	1487855	13.987	ppbv	99
16) 1,3-Butadiene	3.33	39	619518	14.665	ppbv	99
17) tert-Butyl alcohol	4.30	59	1932465	14.275	ppbv	100
18) 1,1-Dichloroethene	4.30	96	1263699	14.617	ppbv	98
19) Isopropyl Alcohol	3.98	45	952684	13.858	ppbv	100
20) Methylene Chloride	4.35	84	1009654	8.904	ppbv	98
21) Allyl Chloride	4.42	41	817691	15.246	ppbv	97
22) trans-1,2-Dichloroethene	4.90	96	1349906	14.784	ppbv	99
23) Vinyl Acetate	5.09	43	2232027	15.945	ppbv	98
24) 1,1-Dichloroethane	5.03	63	2098551	14.287	ppbv	100
25) Ethyl Acetate	5.69	43	2708845	13.444	ppbv	99
26) Hexane	5.71	57	1557407	12.710	ppbv	99
27) Carbon Disulfide	4.56	76	2640024	16.213	ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	2885557	14.517	ppbv	100
29) Chloroform	5.77	83	3234098	13.923	ppbv	98
30) Cyclohexane	7.15	84	1852538	15.064	ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	1748345	15.113	ppbv	98
32) 1,1,1-Trichloroethane	6.53	97	3307795	15.598	ppbv	99
34) 2-Butanone	5.26	43	1969815	14.765	ppbv	99
35) Carbon Tetrachloride	7.04	117	3519835	16.028	ppbv	99
36) Benzene	6.92	78	4144133	13.957	ppbv	99
37) 1,2-Dichloroethane	6.33	62	2013026	14.317	ppbv	100
38) Trichloroethene	7.86	130	2260620	13.779	ppbv	98
39) 1,2-Dichloropropane	7.64	63	1411605	14.200	ppbv	98
40) 1,4-Dioxane	7.85	88	718698	14.677	ppbv	96
41) Tetrahydrofuran	6.07	42	1122250	15.524	ppbv	99
42) Bromodichloromethane	7.82	83	3452462	15.036	ppbv	98
43) Methyl Methacrylate	8.04	69	1783417	15.512	ppbv	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.90	57	5144098	13.227	ppbv	98
45) t-1,3-Dichloropropene	9.31	75	2072914	17.626	ppbv	98
46) cis-1,3-Dichloropropene	8.73	75	2411402	16.543	ppbv	99
47) 1,1,2-Trichloroethane	9.51	97	2109637	14.196	ppbv	98
48) Dibromochloromethane	10.34	129	3750271	15.894	ppbv	100
49) Bromoform	13.08	173	3636754	16.635	ppbv	98
50) 4-Methyl-2-Pentanone	8.77	43	2859658	14.877	ppbv	98
51) 2-Hexanone	10.16	43	2539922	16.123	ppbv #	99
52) Tetrachloroethene	11.26	164	2387720	13.854	ppbv	100
53) Toluene	9.84	91	5281609	14.057	ppbv	98
54) 1,2-Dibromoethane	10.65	107	3385608	14.355	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.16	131	2923070	14.401	ppbv	97
57) Chlorobenzene	12.18	112	4589981	12.696	ppbv	96
58) Ethyl Benzene	12.74	91	6851231	13.305	ppbv	94
59) m/p-Xylene	13.03	91	5653710	12.918	ppbv #	24
60) o-Xylene	13.73	91	5683889	13.185	ppbv	98
61) Styrene	13.56	104	4844386	14.590	ppbv	98
62) Isopropylbenzene	14.71	105	8514667	12.216	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.72	83	4011902	12.732	ppbv	99
64) n-propylbenzene	15.60	120	2953309	13.924	ppbv	88
65) tert-Butylbenzene	16.79	119	8215661	12.416	ppbv	97
66) Benzyl Chloride	17.03	91	3219049	19.997	ppbv	99
67) sec-Butylbenzene	17.34	105	10272300	11.674	ppbv	95
69) p-Isopropyltoluene	17.70	119	9320932	12.157	ppbv	95
70) n-Butylbenzene	18.59	91	8968729	12.180	ppbv	96
71) 2-Chlorotoluene	15.49	91	6694159	13.271	ppbv	97
72) 4-Ethyltoluene	15.88	105	7308313	13.290	ppbv	97
73) 1,3,5-Trimethylbenzene	16.04	105	6819183	13.408	ppbv	98
74) 1,2,4-Trimethylbenzene	16.81	105	6979636	12.509	ppbv	92
75) 1,3-Dichlorobenzene	17.04	146	5291266	12.657	ppbv	98
76) 1,4-Dichlorobenzene	17.18	146	5371486	12.863	ppbv	98
77) 1,2-Dichlorobenzene	17.86	146	5242320	12.730	ppbv	98
78) Hexachloro-1,3-Butadiene	23.42	225	3355834	11.871	ppbv	99
79) Naphthalene	22.26	128	8867941	12.771	ppbv	97
80) Naphthalene, 2-methyl-	25.01	142	3889222	14.250	ppbv	99
81) 1,2,4-Trichlorobenzene	21.98	180	5222376	12.791	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

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ClientSampleId :

VSTDIC015

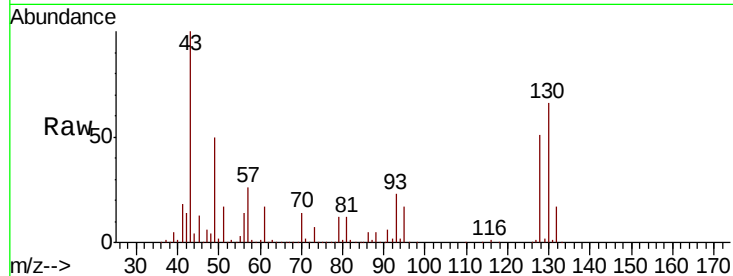
Tot Ion: 49 Resp: 991753

Ion Ratio Lower Upper

49 100

128 102.1 50.0 150.1

130 131.4 64.4 193.2

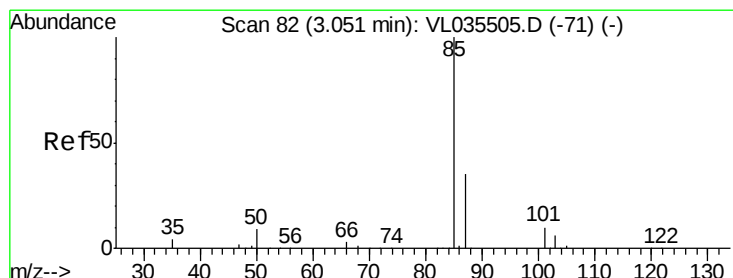
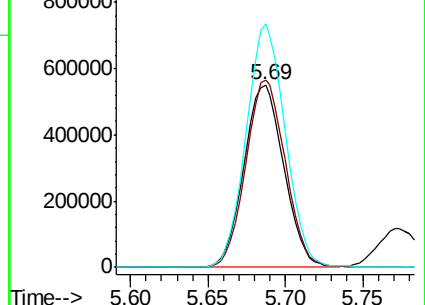
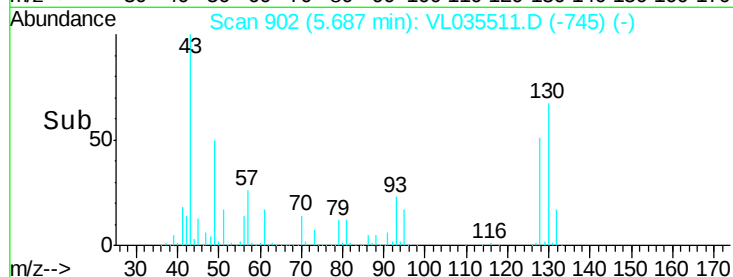


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



#2

Dichlorodifluoromethane

Concen: 10.518 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL035511.D

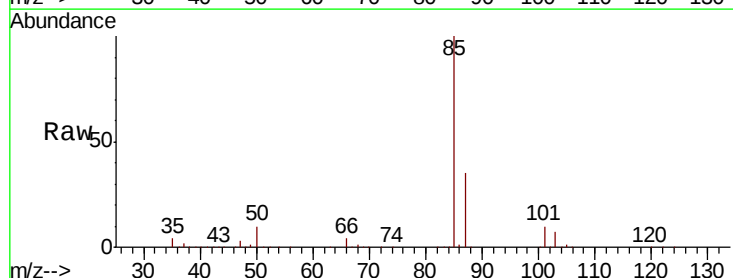
Acq: 27 Aug 2020 6:02

Tgt Ion: 85 Resp: 1907685

Ion Ratio Lower Upper

85 100

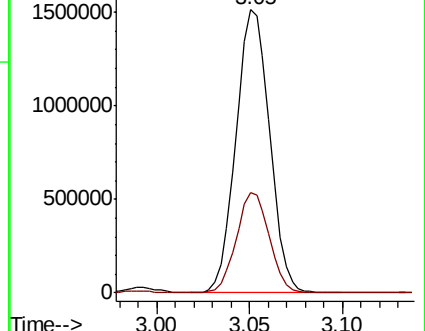
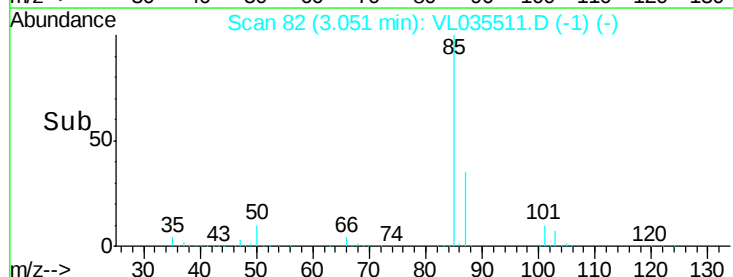
87 35.3 28.0 42.0

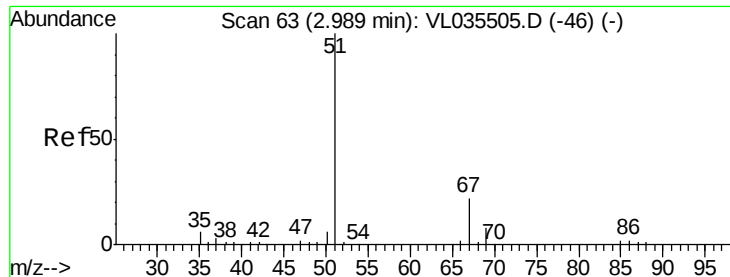


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->





#3

Chlorodifluoromethane

Concen: 13.956 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

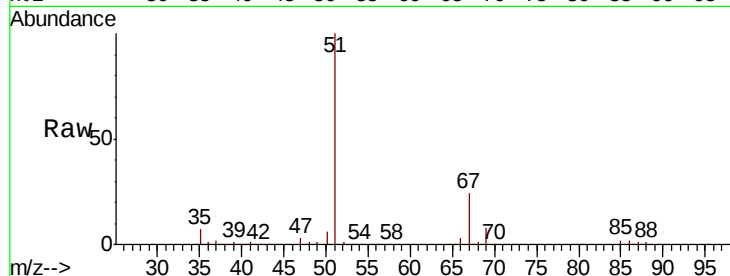
VSTDIC015

Tot Ion: 51 Resp: 1562767

Ion Ratio Lower Upper

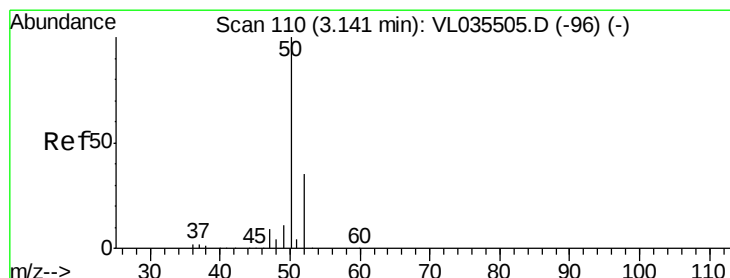
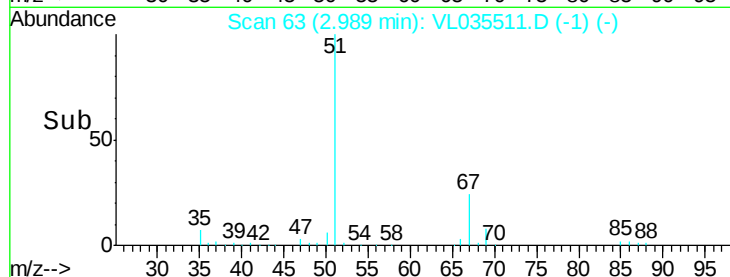
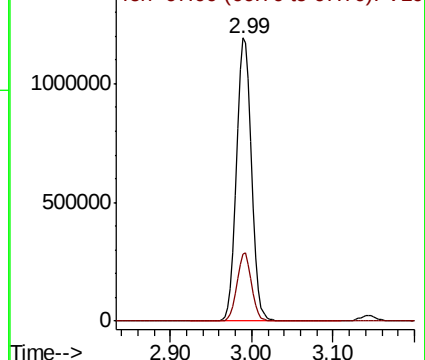
51 100

67 23.2 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: 14.668 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL035511.D

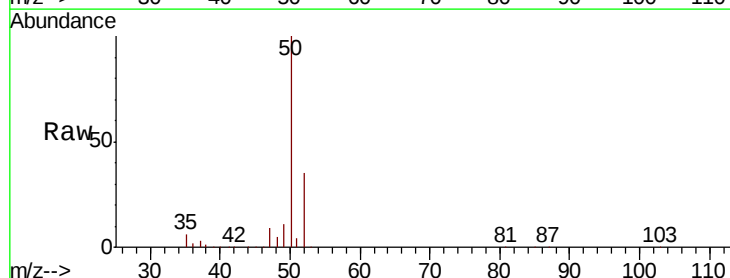
Acq: 27 Aug 2020 6:02

Tgt Ion: 50 Resp: 854965

Ion Ratio Lower Upper

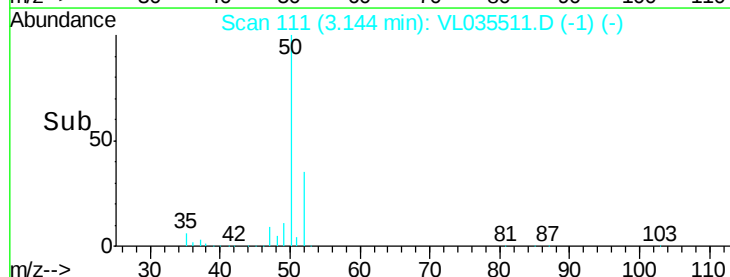
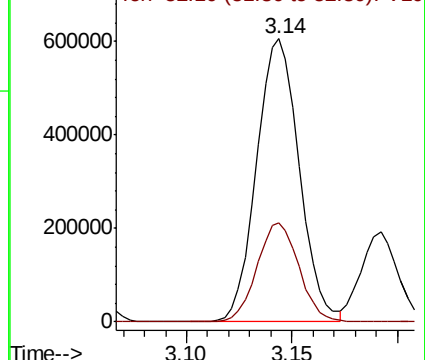
50 100

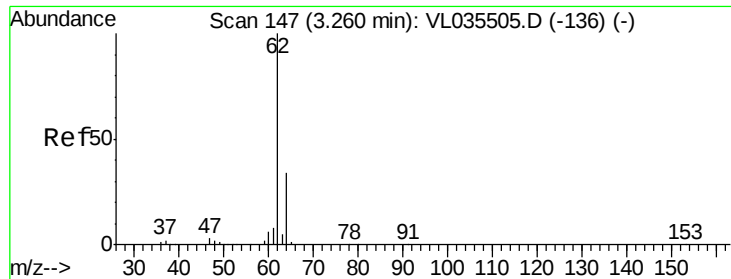
52 34.9 27.7 41.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 14.772 ppbv

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

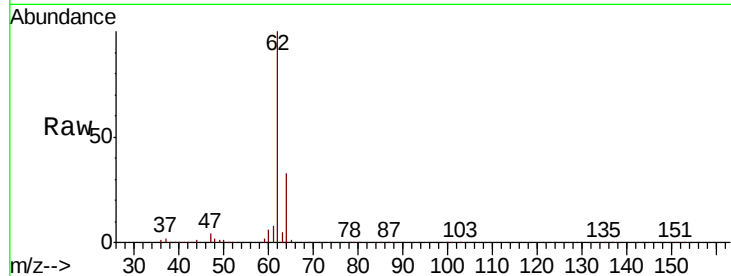
VSTDIC015

Tot Ion: 62 Resp: 1012100

Ion Ratio Lower Upper

62 100

64 32.8 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

800000

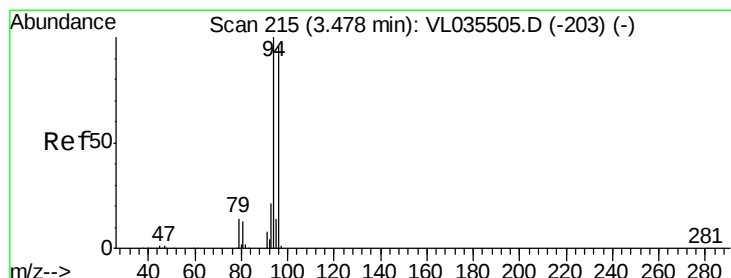
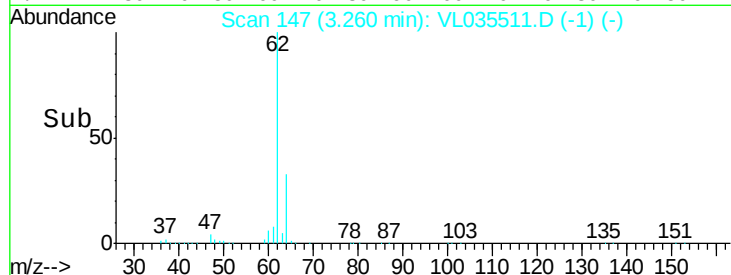
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 14.329 ppbv

RT: 3.48 min Scan# 215

Delta R.T. 0.00 min

Lab File: VL035511.D

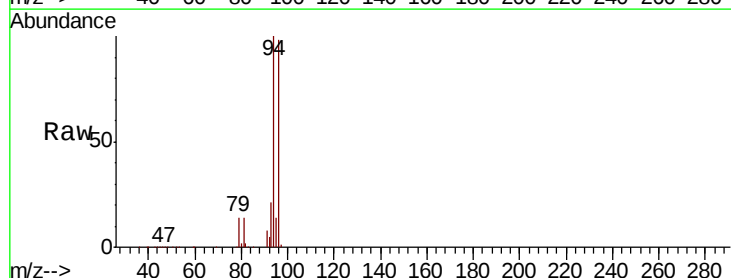
Acq: 27 Aug 2020 6:02

Tgt Ion: 94 Resp: 900231

Ion Ratio Lower Upper

94 100

96 97.5 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

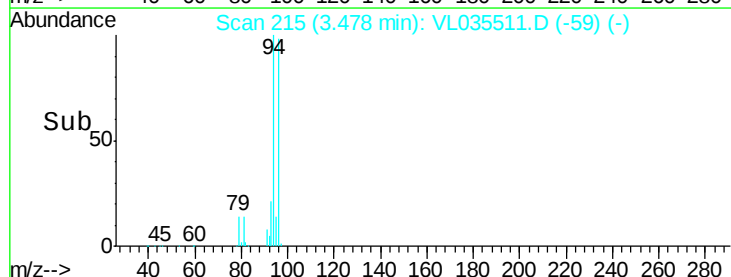
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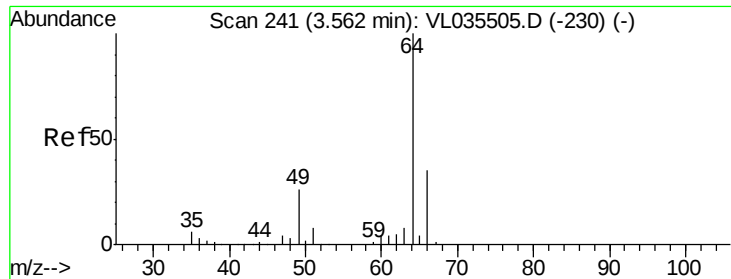
400000

200000

0

Time-->





#7

Chloroethane

Concen: 14.609 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

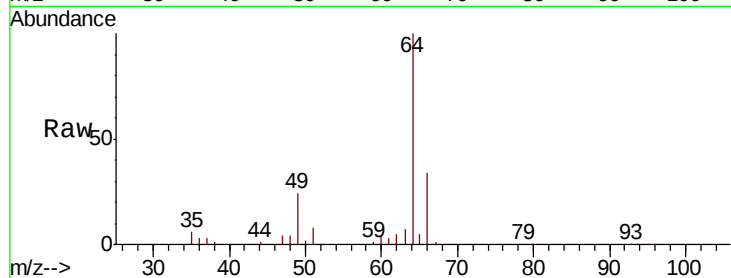
VSTDIC015

Tot Ion: 64 Resp: 382338

Ion Ratio Lower Upper

64 100

66 33.7 27.7 41.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.56

250000

200000

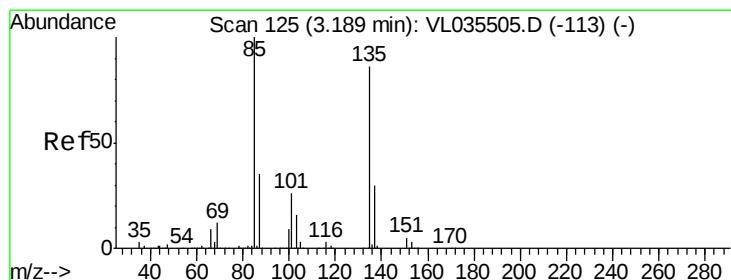
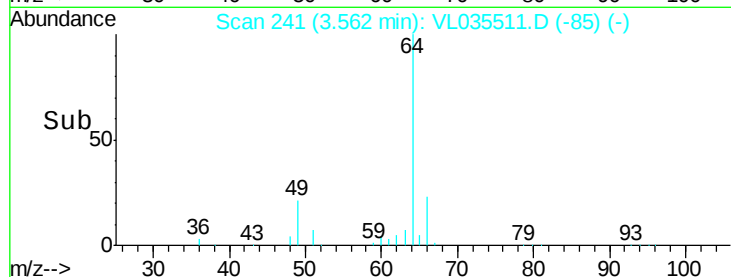
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 12.227 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.00 min

Lab File: VL035511.D

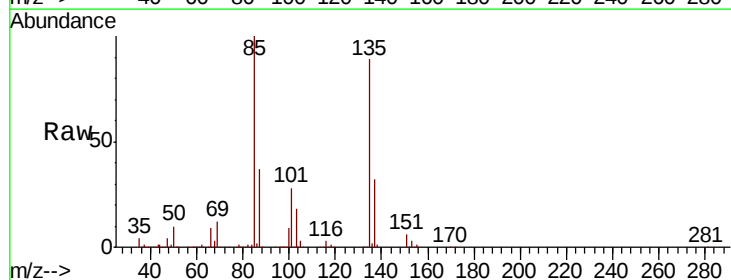
Acq: 27 Aug 2020 6:02

Tgt Ion: 85 Resp: 2632785

Ion Ratio Lower Upper

85 100

135 89.4 70.4 105.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.19

2000000

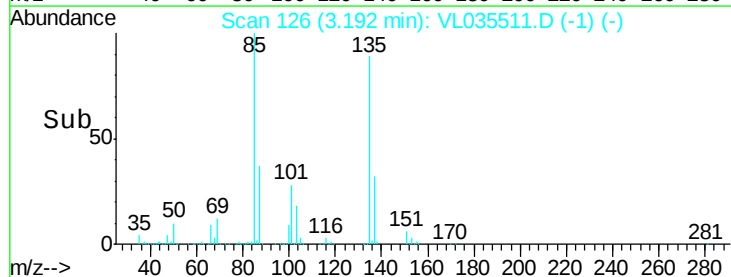
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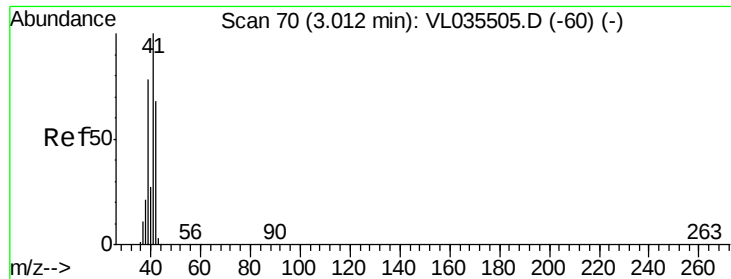
1000000

500000

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Time-->





#9

Propene

Concen: 14.225 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

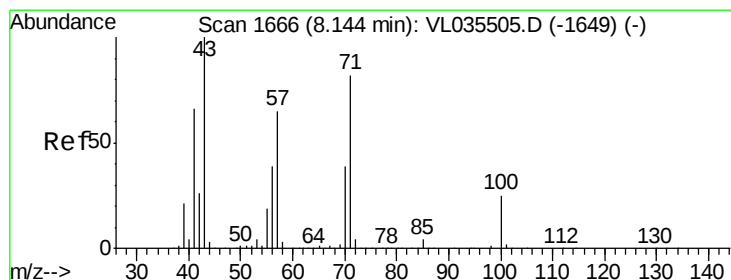
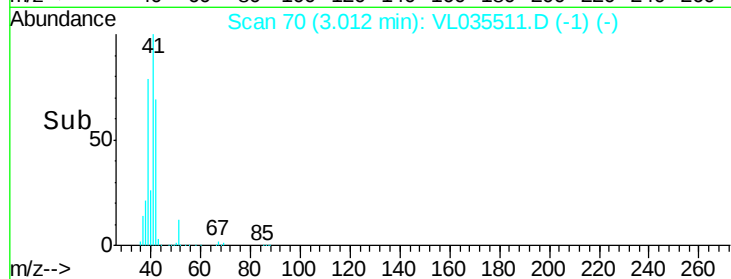
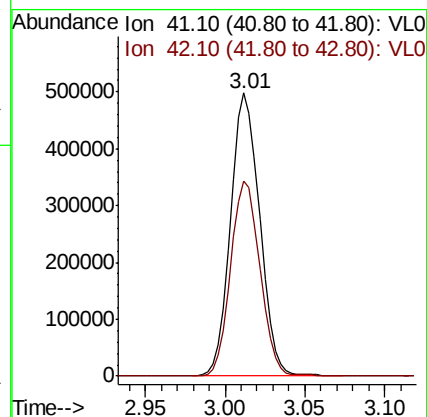
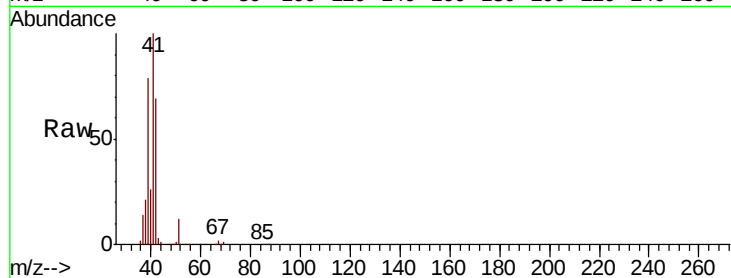
VSTDIC015

Tot Ion: 41 Resp: 619622

Ion Ratio Lower Upper

41 100

42 69.7 56.3 84.5



#10

Heptane

Concen: 14.643 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.00 min

Lab File: VL035511.D

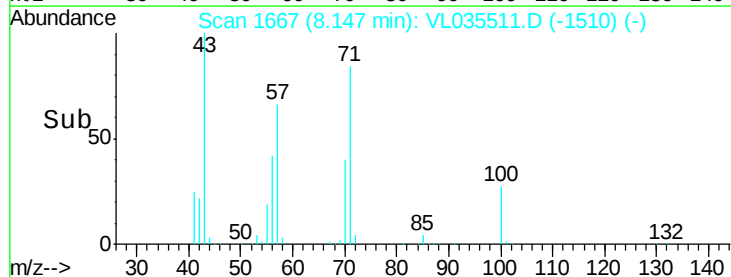
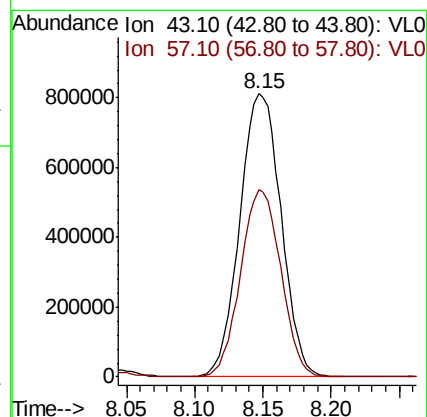
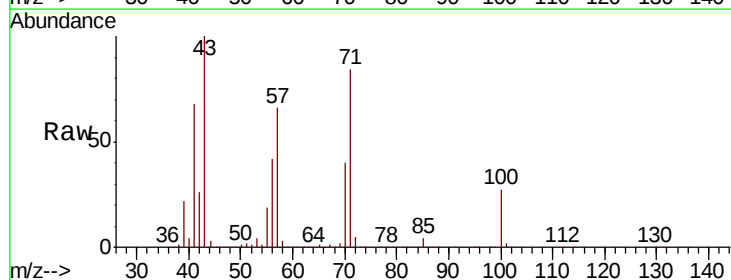
Acq: 27 Aug 2020 6:02

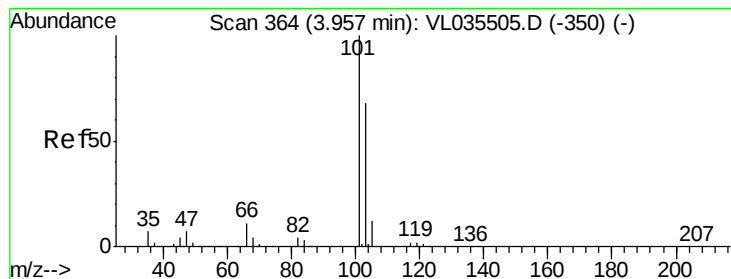
Tgt Ion: 43 Resp: 1698571

Ion Ratio Lower Upper

43 100

57 64.7 51.4 77.0





#11

Trichlorofluoromethane

Concen: 13.363 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

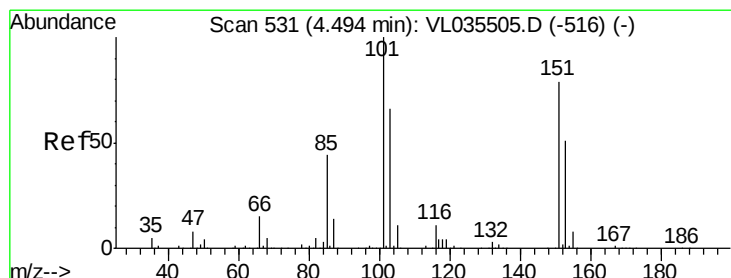
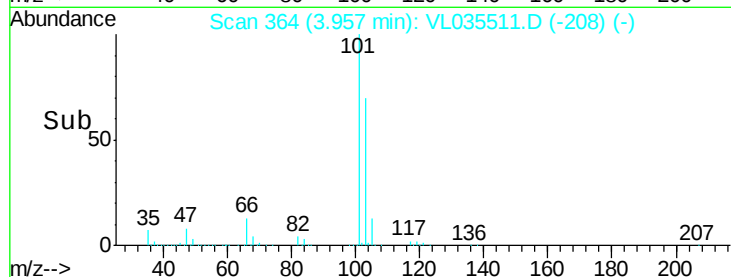
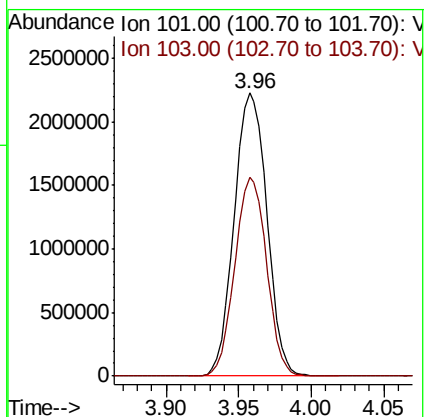
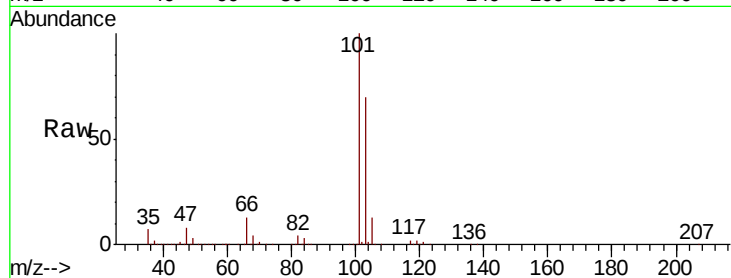
VSTDIC015

Tot Ion:101 Resp: 3496612

Ion Ratio Lower Upper

101 100

103 70.3 54.5 81.7



#12

1,1,2-Trichlorotrifluoroethane

Concen: 13.807 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.00 min

Lab File: VL035511.D

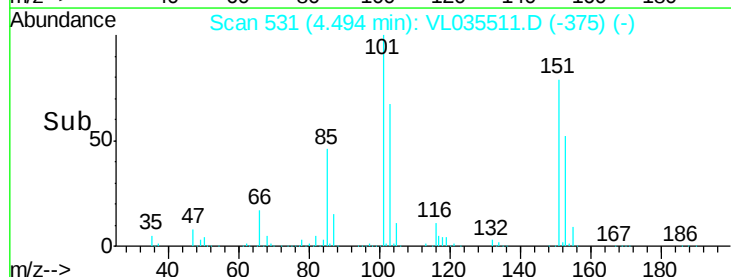
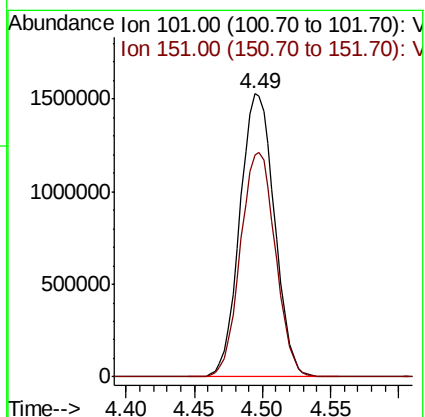
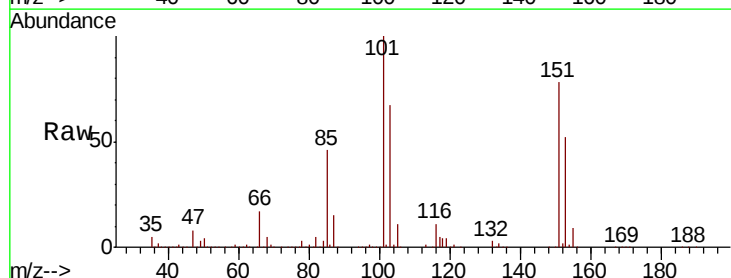
Acq: 27 Aug 2020 6:02

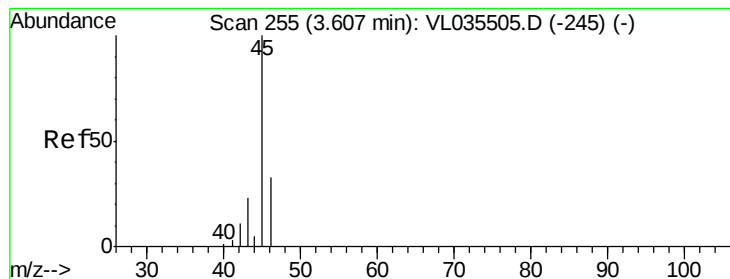
Tgt Ion:101 Resp: 2696331

Ion Ratio Lower Upper

101 100

151 80.4 63.5 95.3





#13

Ethanol

Concen: 11.179 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

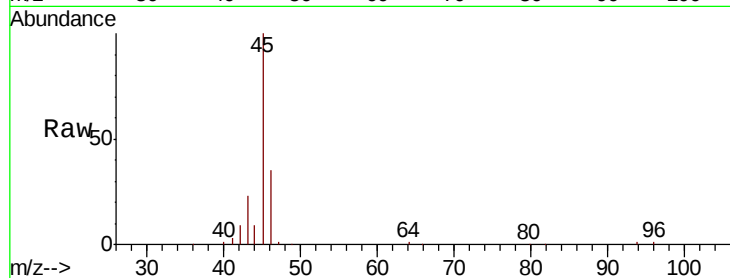
VSTDIC015

Tot Ion: 45 Resp: 136611

Ion Ratio Lower Upper

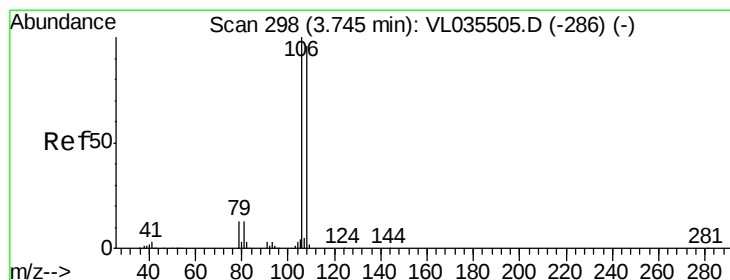
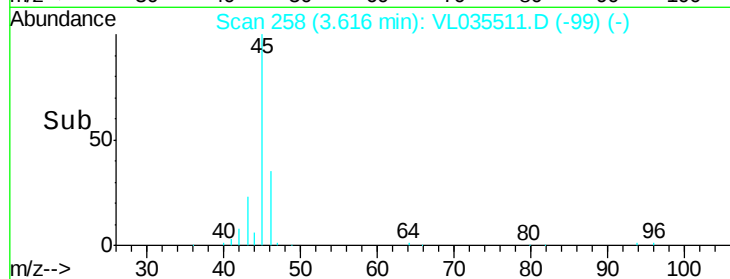
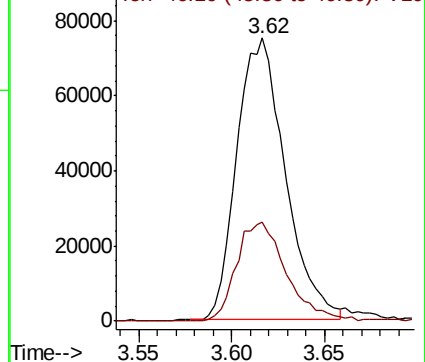
45 100

46 35.9 15.2 60.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 14.635 ppbv

RT: 3.75 min Scan# 298

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

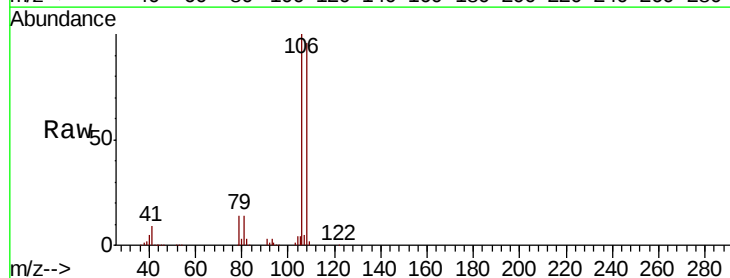
Tgt Ion: 108 Resp: 1243407

Ion Ratio Lower Upper

108 100

106 104.5 84.9 127.3

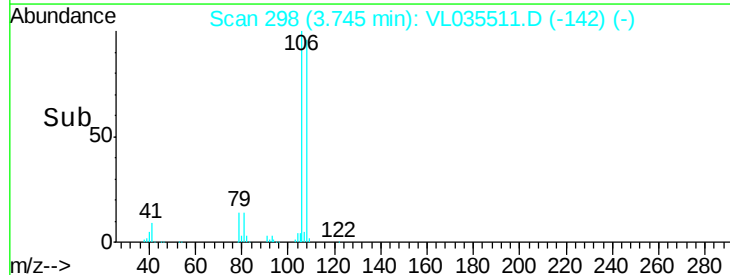
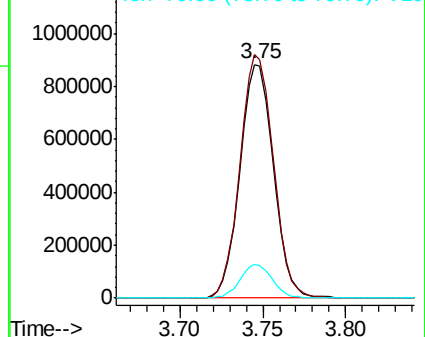
79 14.2 10.8 16.2

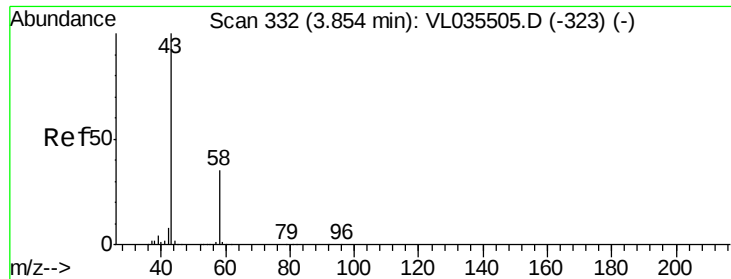


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0





#15

Acetone

Concen: 13.987 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

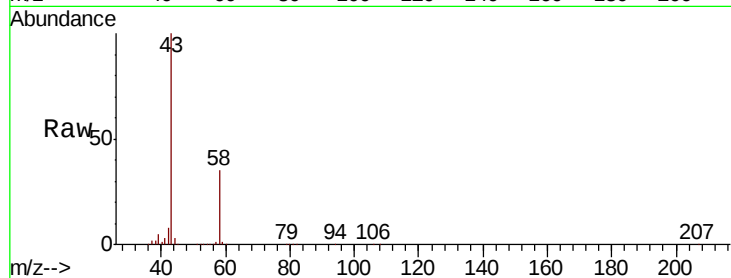
VSTDIC015

Tot Ion: 43 Resp: 1487855

Ion Ratio Lower Upper

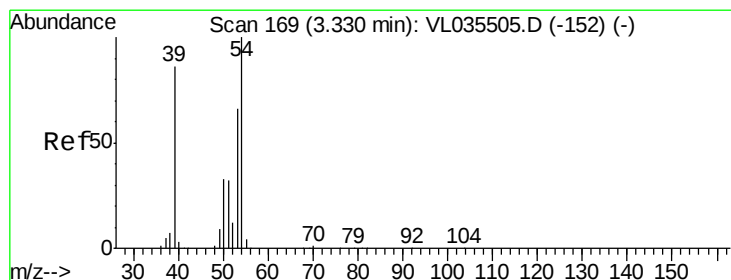
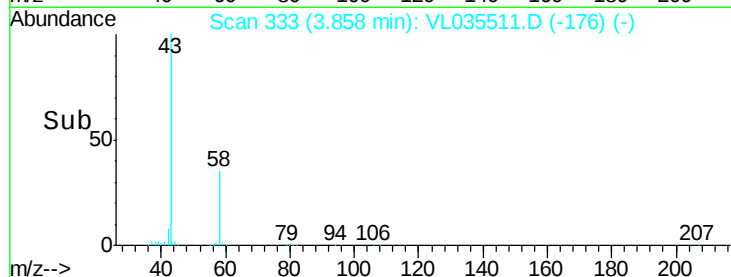
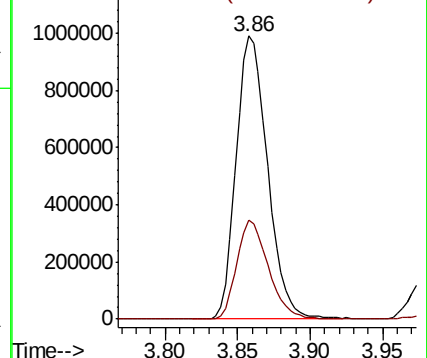
43 100

58 35.2 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 14.665 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.00 min

Lab File: VL035511.D

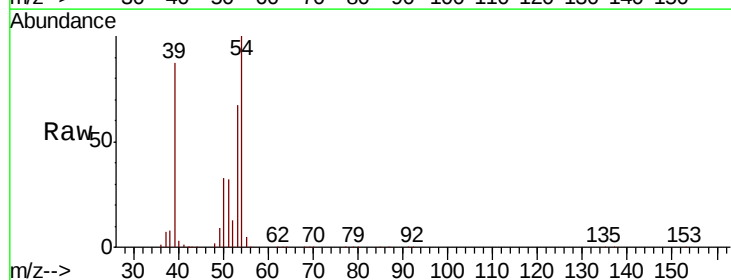
Acq: 27 Aug 2020 6:02

Tgt Ion: 39 Resp: 619518

Ion Ratio Lower Upper

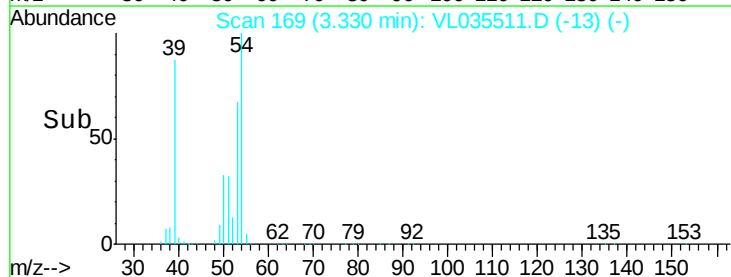
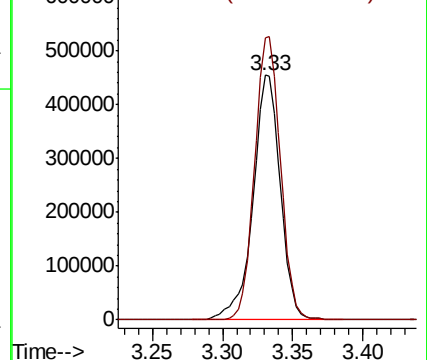
39 100

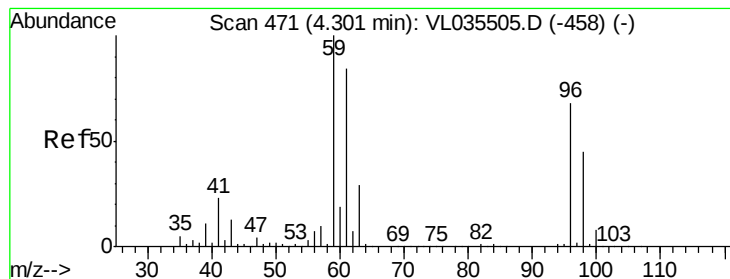
54 109.9 88.4 132.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 14.275 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleID :

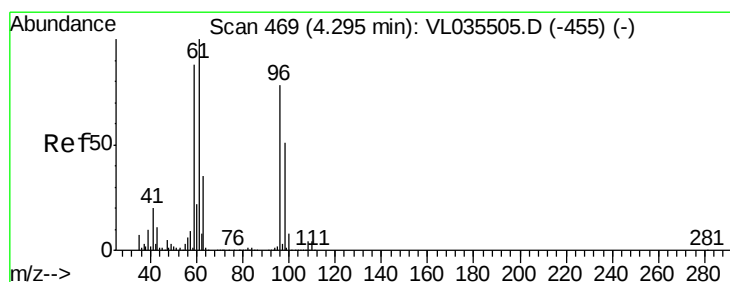
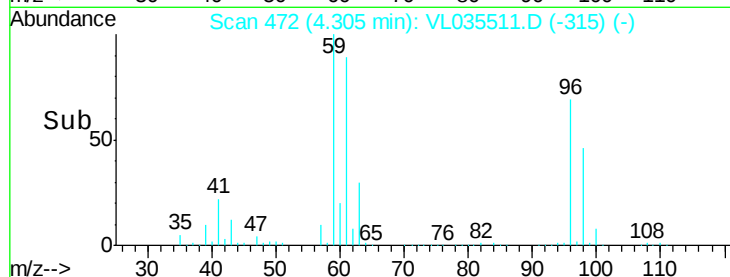
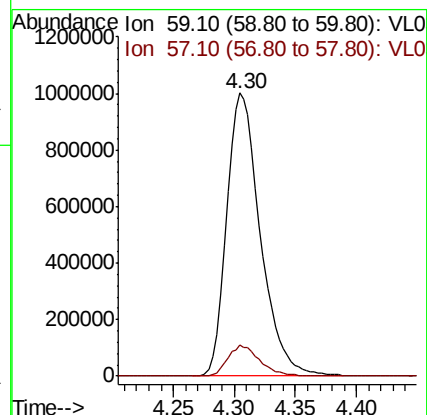
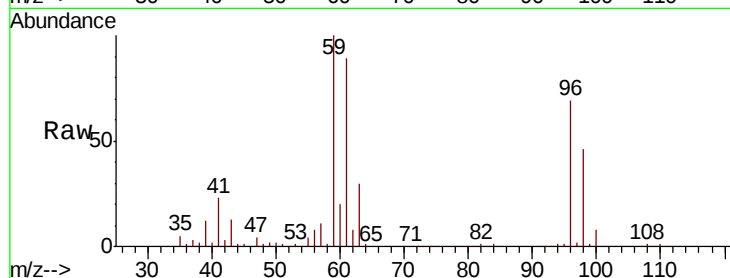
VSTDIC015

Tot Ion: 59 Resp: 1932465

Ion Ratio Lower Upper

59 100

57 10.4 8.4 12.6



#18

1,1-Dichloroethene

Concen: 14.617 ppbv

RT: 4.30 min Scan# 470

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

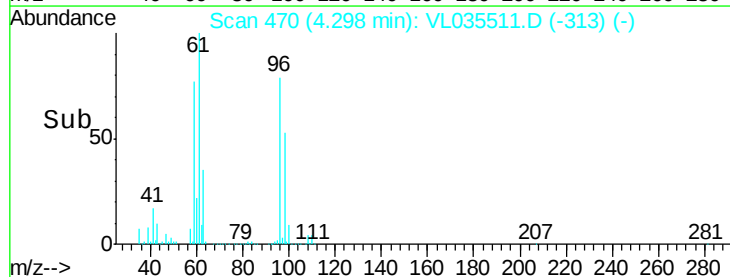
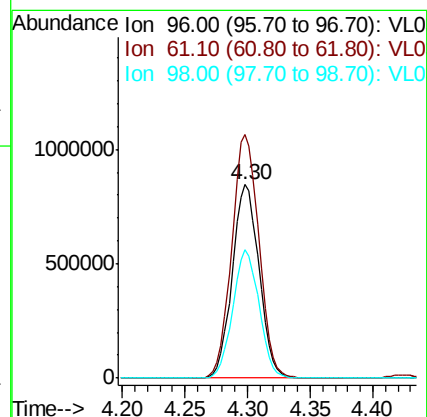
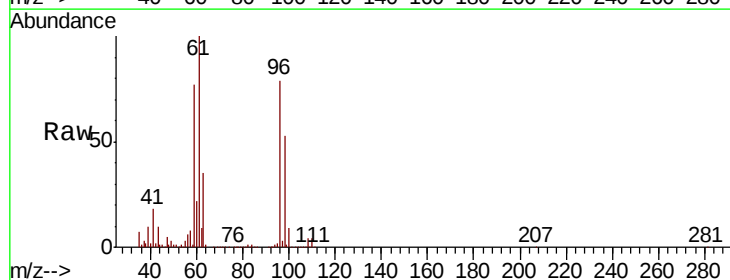
Tgt Ion: 96 Resp: 1263699

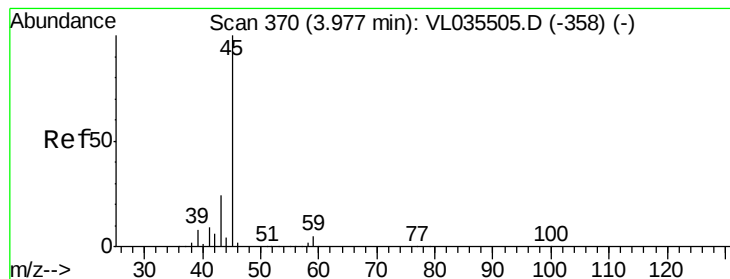
Ion Ratio Lower Upper

96 100

61 126.0 103.0 154.6

98 66.3 52.8 79.2





#19

Isopropyl Alcohol

Concen: 13.858 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

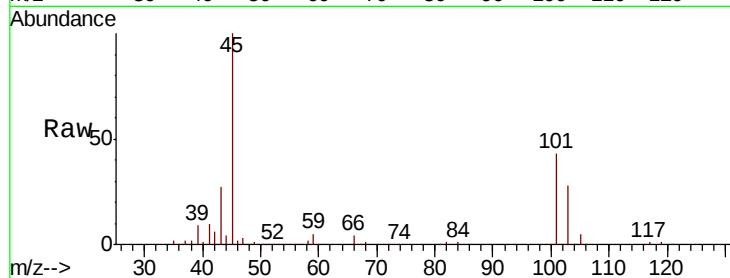
VSTDIC015

Tot Ion: 45 Resp: 952684

Ion Ratio Lower Upper

45 100

58 2.6 2.0 3.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

600000

500000

400000

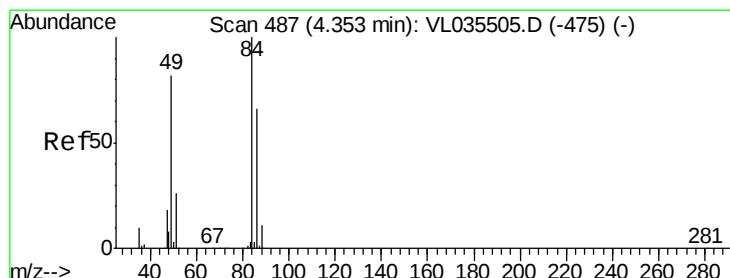
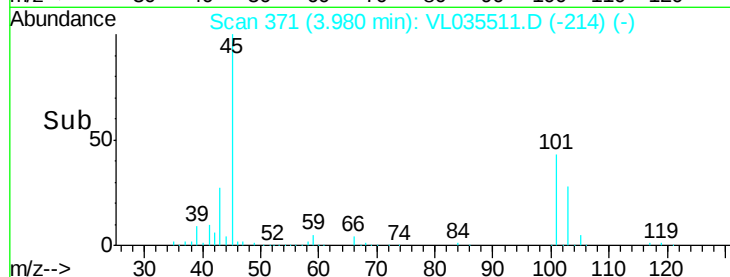
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.904 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion: 84 Resp: 1009654

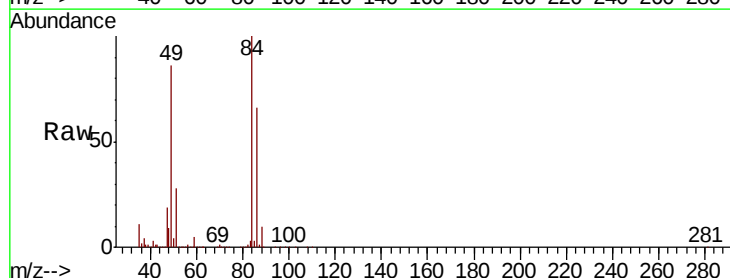
Ion Ratio Lower Upper

84 100

49 84.7 65.4 98.0

51 26.4 21.5 32.3

86 66.0 52.9 79.3



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

1000000

800000

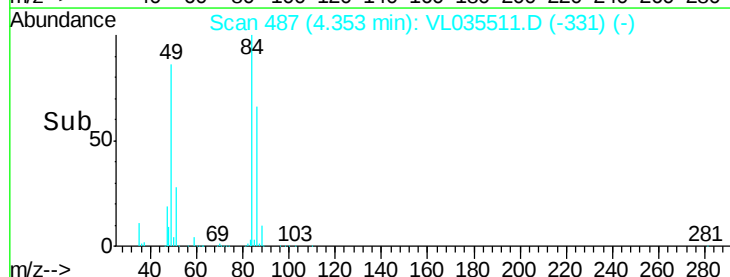
600000

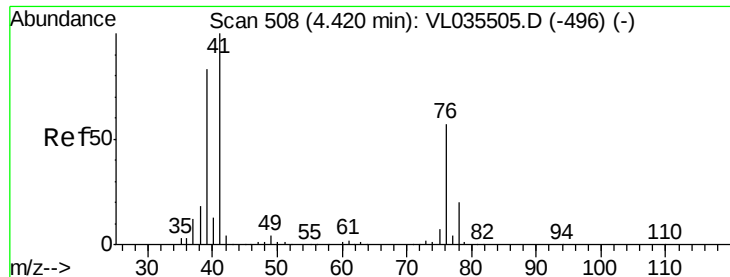
400000

200000

0

Time-->





#21

Allvl Chloride

Concen: 15.246 ppbv

RT: 4.42 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

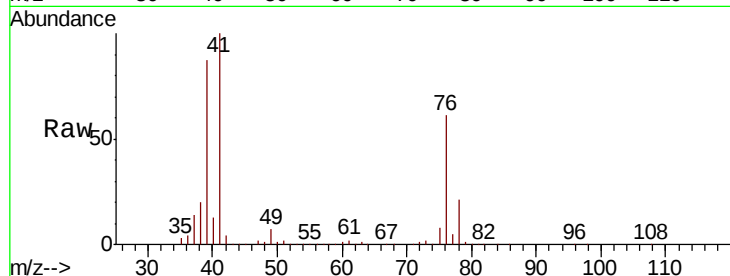
Tot Ion: 41 Resp: 817691

Ion Ratio Lower Upper

41 100

76 60.2 46.2 69.2

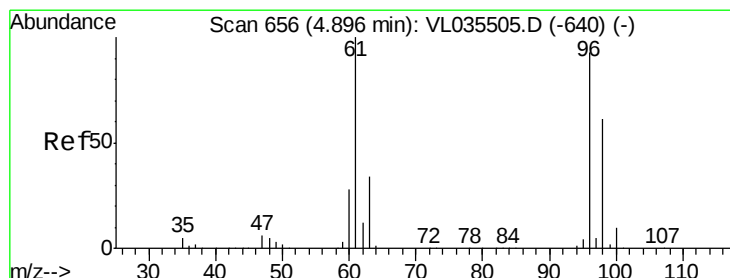
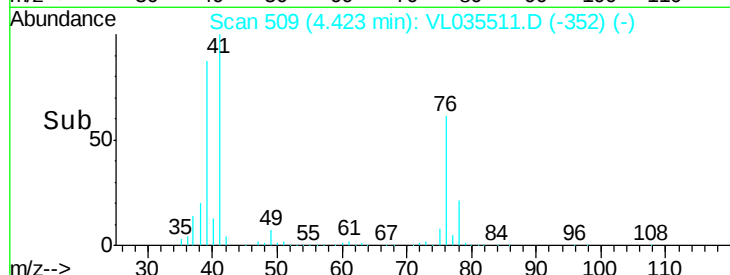
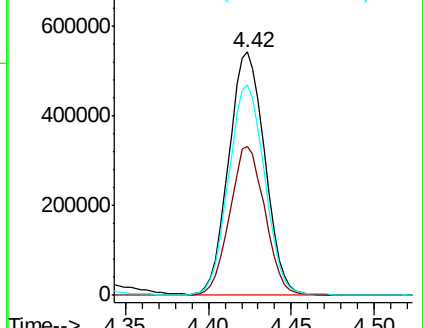
39 87.1 67.8 101.6



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: 14.784 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

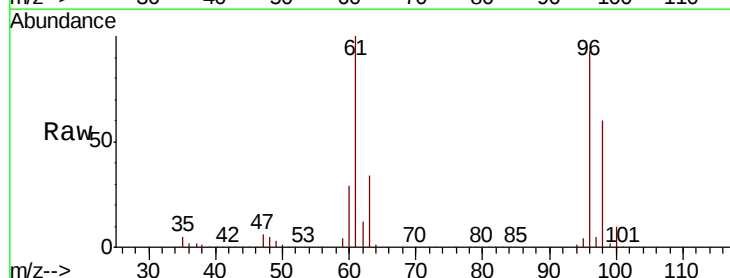
Tgt Ion: 96 Resp: 1349906

Ion Ratio Lower Upper

96 100

61 107.8 86.0 129.0

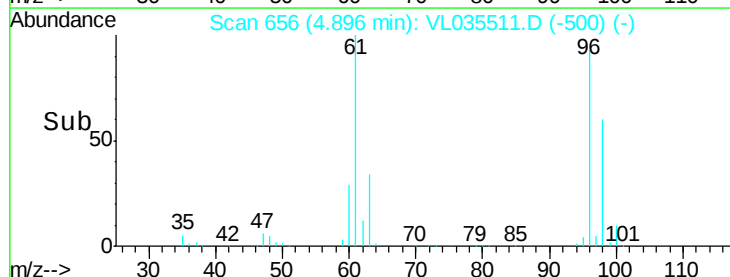
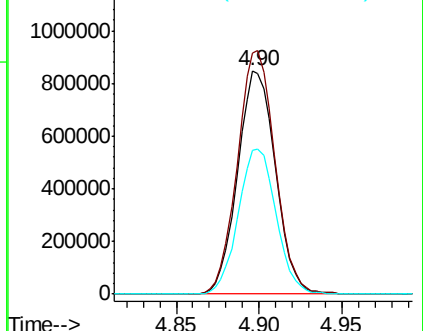
98 64.3 52.3 78.5

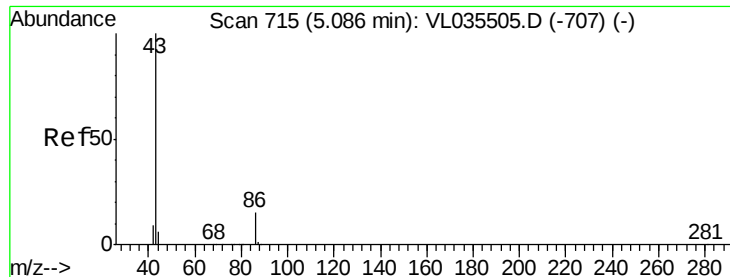


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 15.945 ppbv

RT: 5.09 min Scan# 716

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

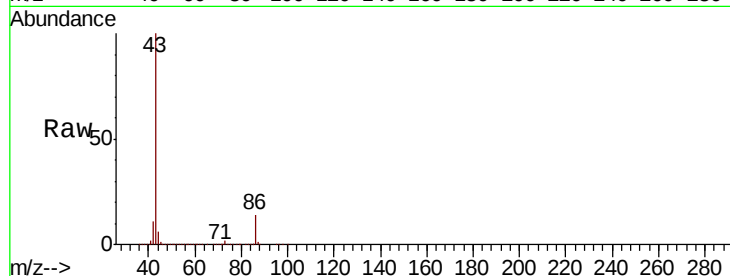
MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2232027

Ion	Ratio	Lower	Upper
43	100		
86	14.1	10.6	16.0
42	10.5	7.5	11.3
44	5.7	4.4	6.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

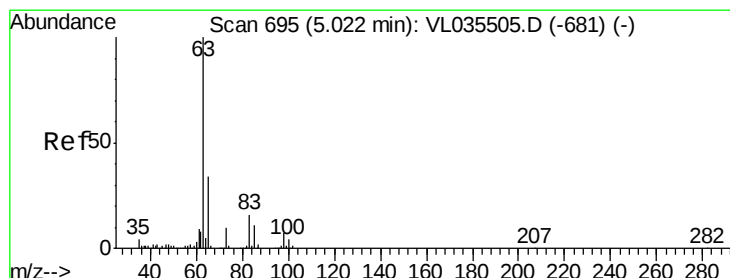
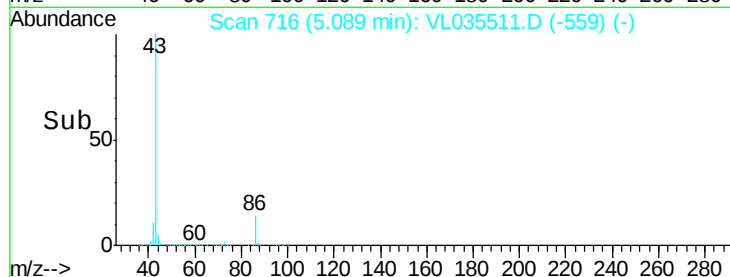
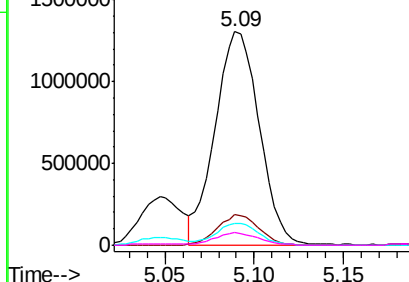
2000000 Ion 86.10 (85.80 to 86.80): VL0

1500000 Ion 42.10 (41.80 to 42.80): VL0

1000000 Ion 44.10 (43.80 to 44.80): VL0

500000

0



#24

1,1-Dichloroethane

Concen: 14.287 ppbv

RT: 5.03 min Scan# 697

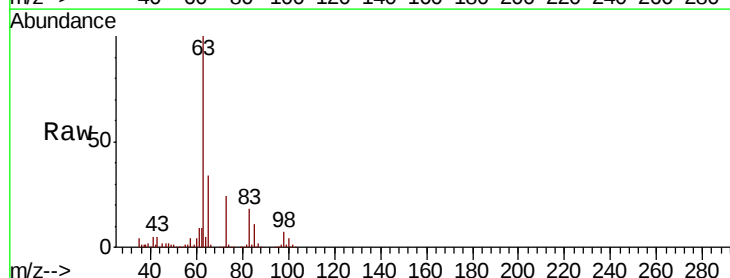
Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion: 63 Resp: 2098551

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.1
100	4.4	2.1	6.5



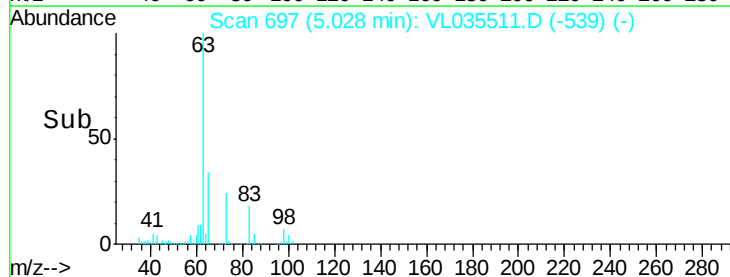
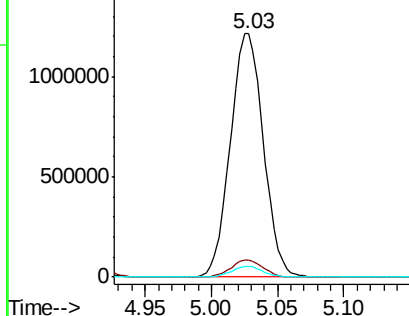
Abundance Ion 63.10 (62.80 to 63.80): VL0

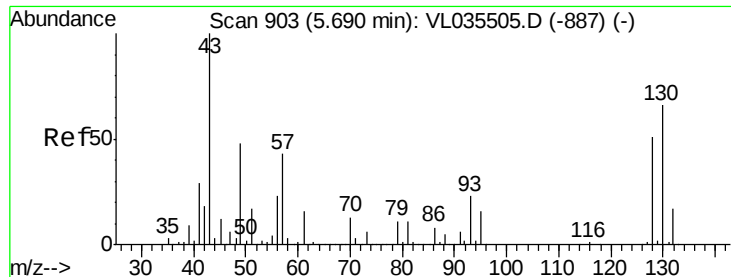
1500000 Ion 98.00 (97.70 to 98.70): VL0

1000000 Ion 100.00 (99.70 to 100.70): VL0

500000

0





#25

Ethyl Acetate

Concen: 13.444 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2708845

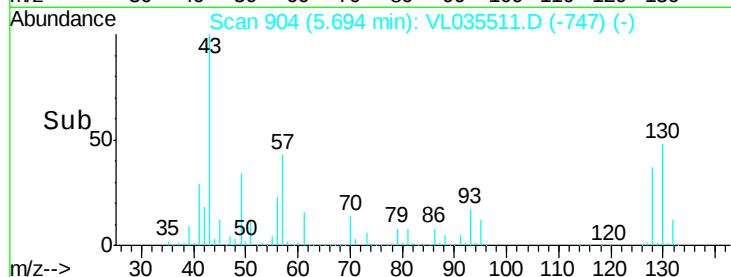
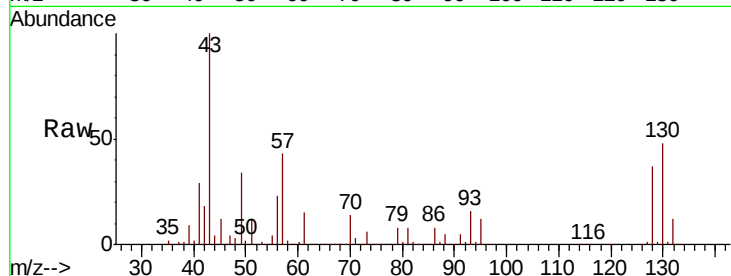
Ion	Ratio	Lower	Upper
43	100		
45	10.9	8.4	12.6
61	13.7	10.6	16.0
70	12.1	9.4	14.2

43 100

45 10.9 8.4 12.6

61 13.7 10.6 16.0

70 12.1 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

5.69

2000000

1500000

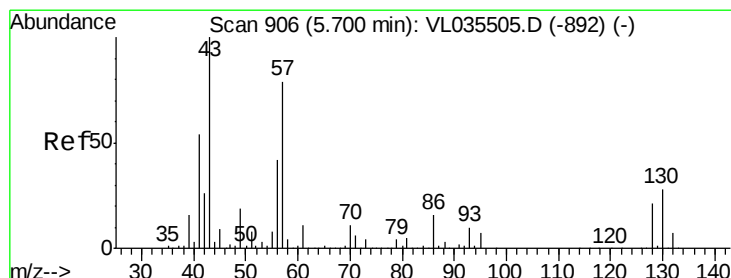
1000000

500000

0

Time-->

5.60 5.65 5.70 5.75 5.80



#26

Hexane

Concen: 12.710 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion: 57 Resp: 1557407

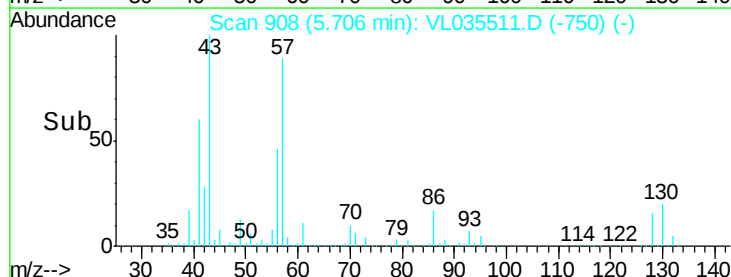
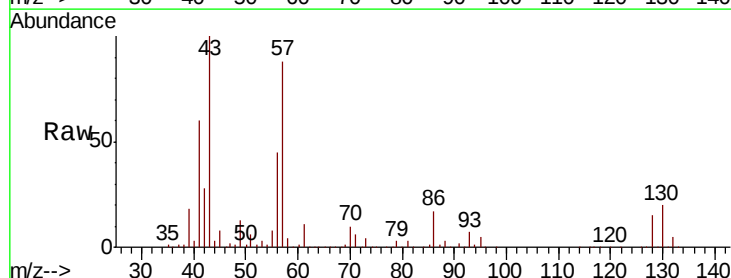
Ion	Ratio	Lower	Upper
57	100		
41	70.4	55.9	83.9
43	174.6	141.8	212.8
56	52.0	41.8	62.8

57 100

41 70.4 55.9 83.9

43 174.6 141.8 212.8

56 52.0 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

5.71

2000000

1500000

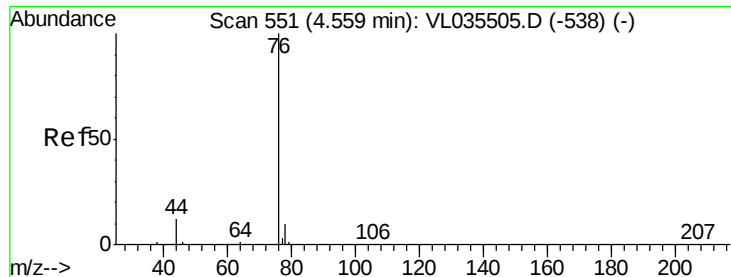
1000000

500000

0

Time-->

5.65 5.70 5.75 5.80



#27

Carbon Disulfide

Concen: 16.213 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

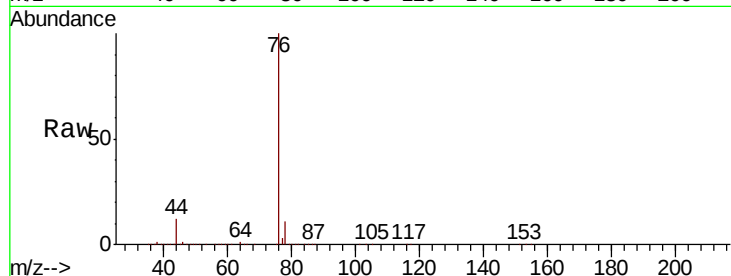
Tot Ion: 76 Resp: 2640024

Ion	Ratio	Lower	Upper
76	100		
44	11.8	9.3	13.9
78	10.1	7.8	11.6

76 100

44 11.8 9.3 13.9

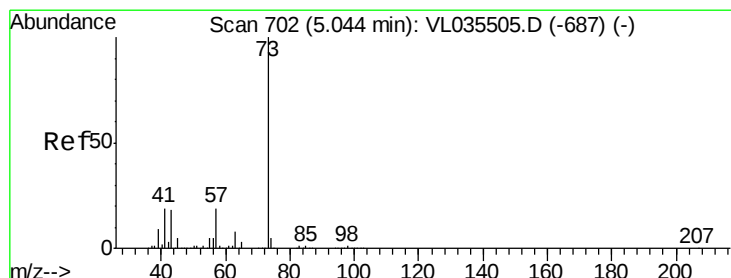
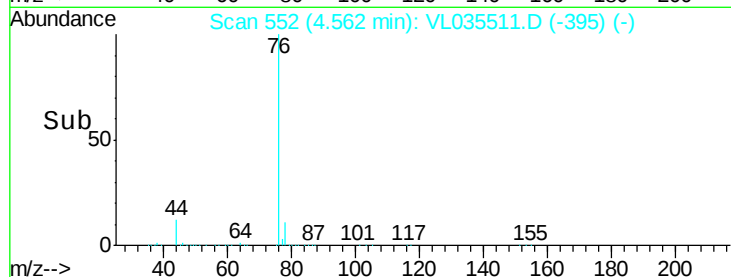
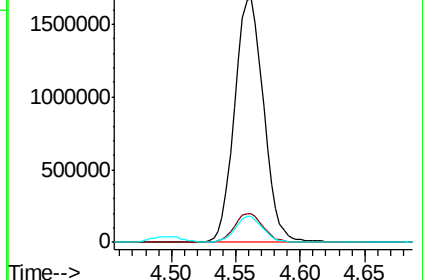
78 10.1 7.8 11.6



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: 14.517 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL035511.D

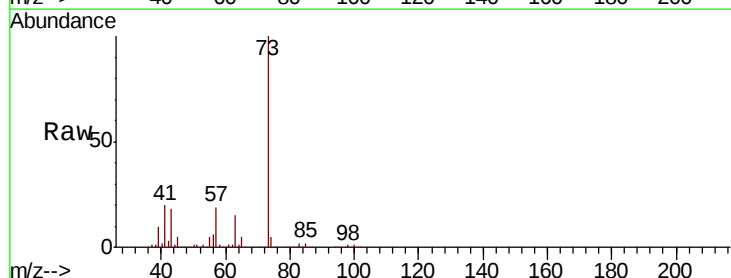
Acq: 27 Aug 2020 6:02

Tgt Ion: 73 Resp: 2885557

Ion	Ratio	Lower	Upper
73	100		
57	19.2	15.2	22.8

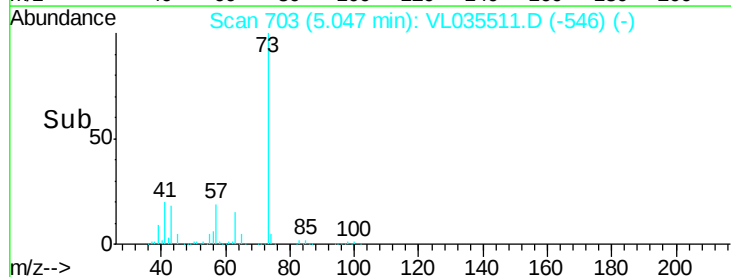
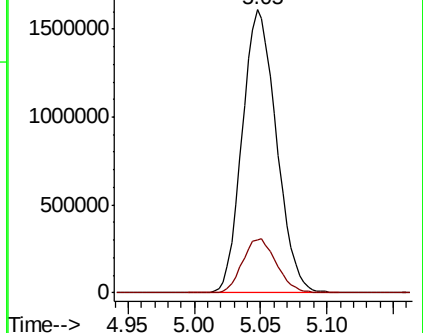
73 100

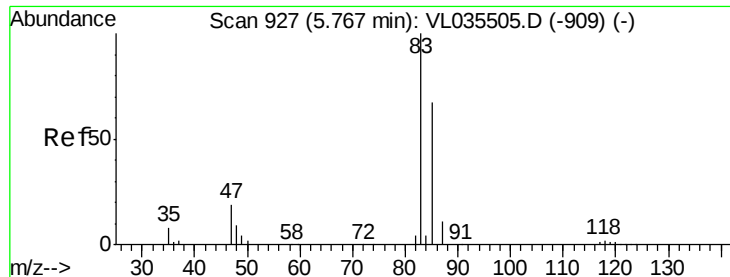
57 19.2 15.2 22.8



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

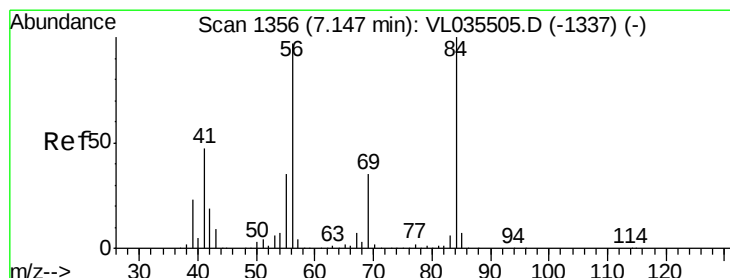
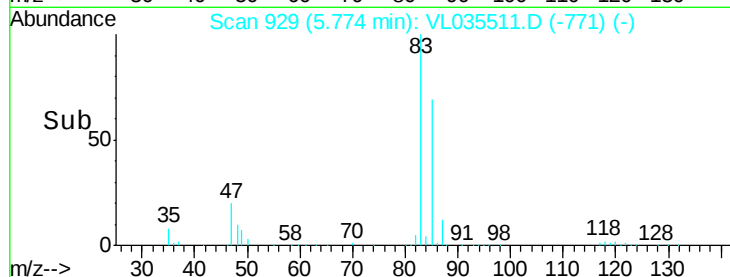
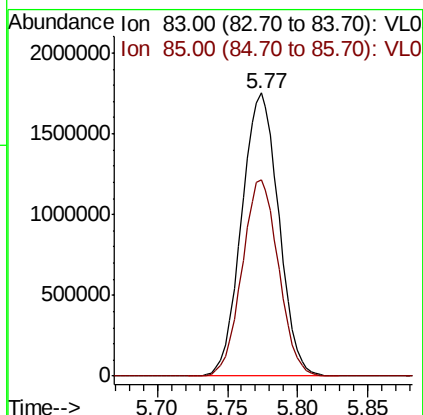
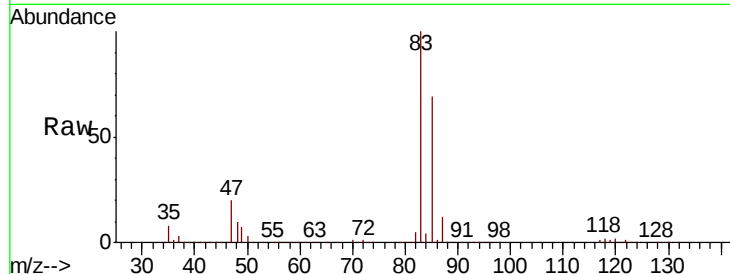




#29
Chloroform
Concen: 13.923 ppbv
RT: 5.77 min Scan# 929
Delta R.T. 0.01 min
Lab File: VL035511.D
Acq: 27 Aug 2020 6:02

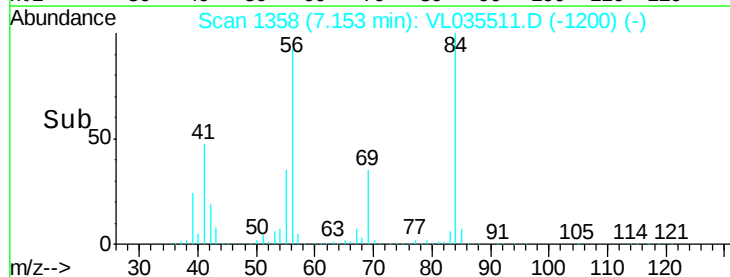
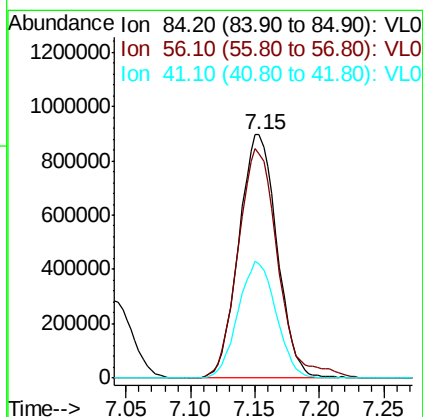
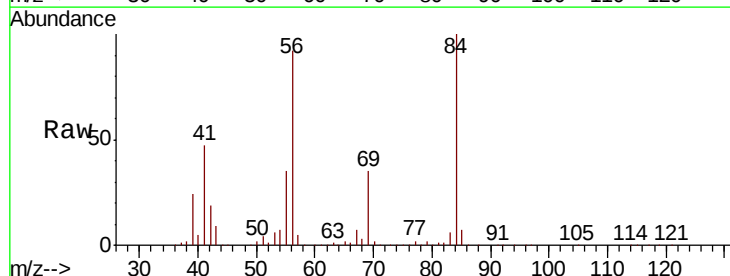
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

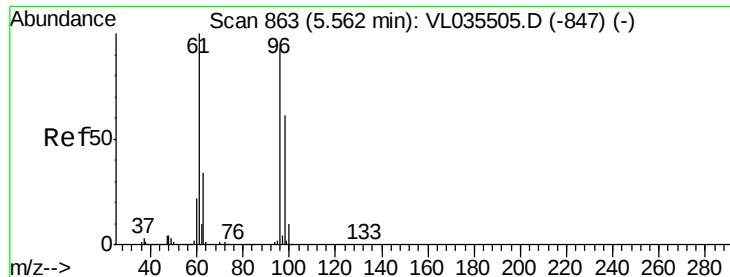
Tot Ion: 83 Resp: 3234098
Ion Ratio Lower Upper
83 100
85 69.2 53.9 80.9



#30
Cyclohexane
Concen: 15.064 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. 0.01 min
Lab File: VL035511.D
Acq: 27 Aug 2020 6:02

Tgt Ion: 84 Resp: 1852538
Ion Ratio Lower Upper
84 100
56 98.3 80.1 120.1
41 47.4 38.1 57.1



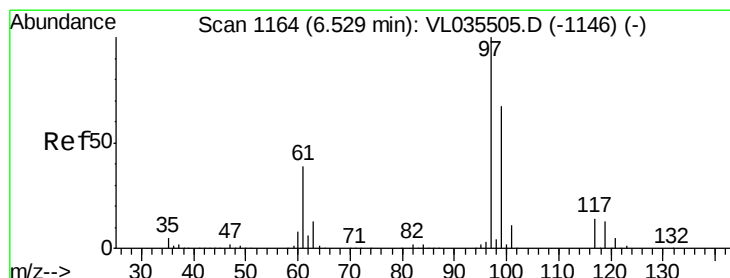
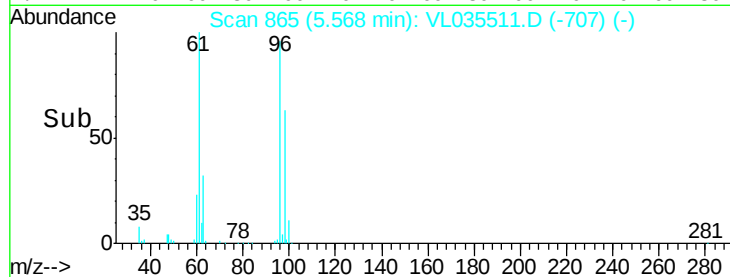
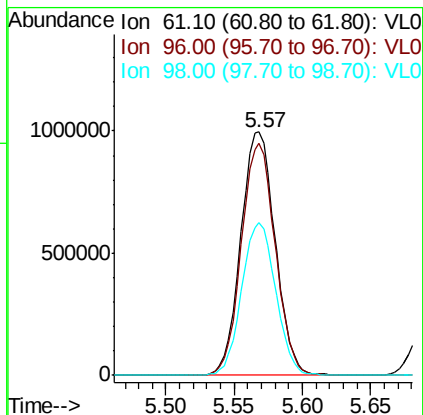
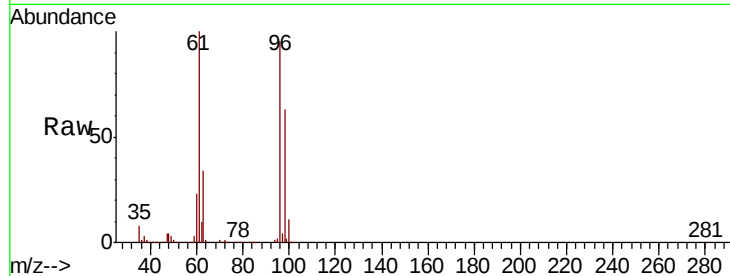


#31

cis-1,2-Dichloroethene
 Concen: 15.113 ppbv
 RT: 5.57 min Scan# 865
 Delta R.T. 0.01 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

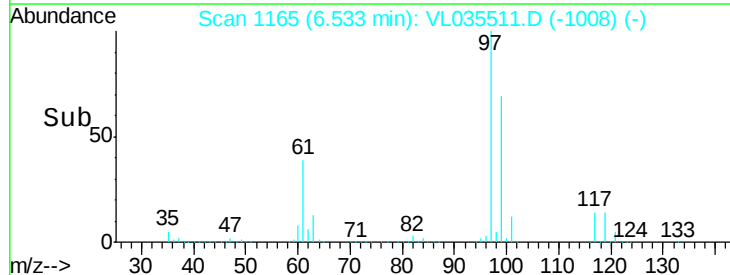
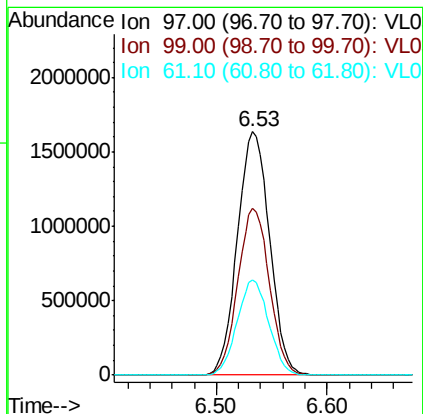
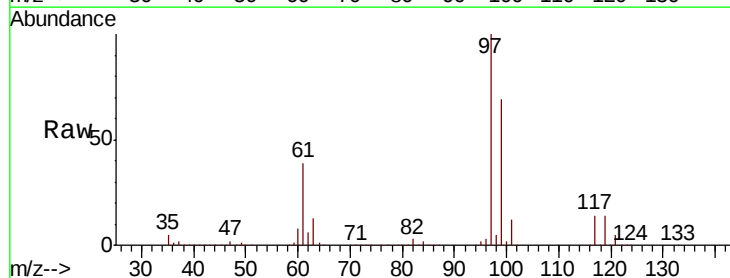
Tot Ion: 61 Resp: 1748345
 Ion Ratio Lower Upper
 61 100
 96 95.3 74.4 111.6
 98 62.8 49.2 73.8

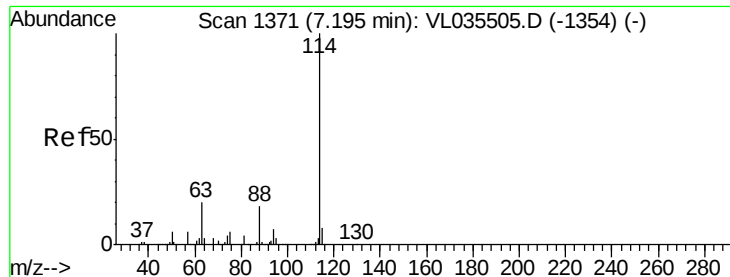


#32

1,1,1-Trichloroethane
 Concen: 15.598 ppbv
 RT: 6.53 min Scan# 1165
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Tgt Ion: 97 Resp: 3307795
 Ion Ratio Lower Upper
 97 100
 99 67.3 53.3 79.9
 61 38.5 30.6 46.0

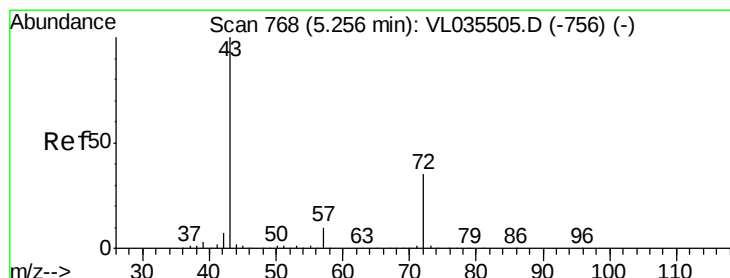
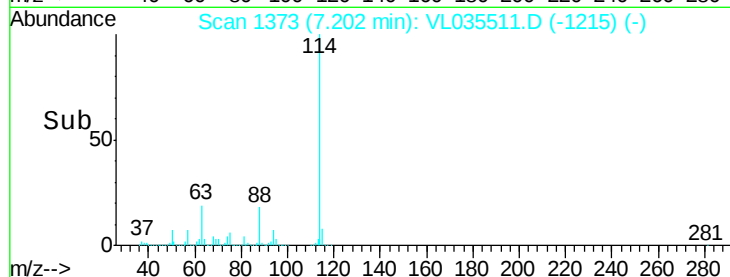
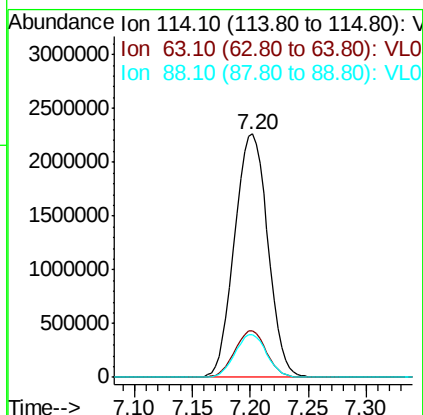
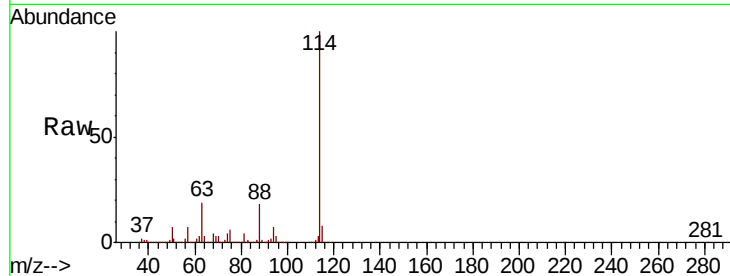




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1373
 Delta R.T. 0.01 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

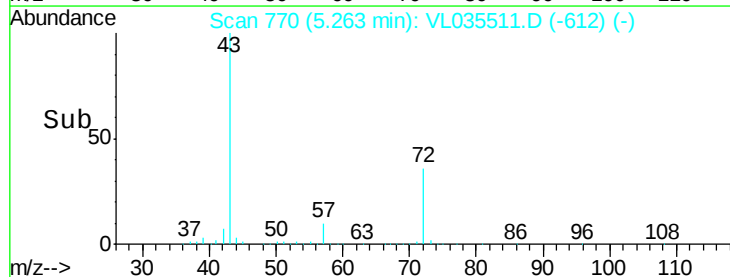
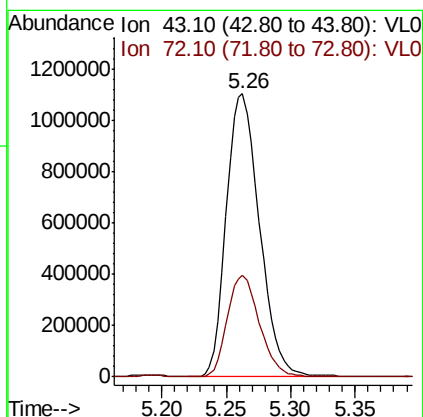
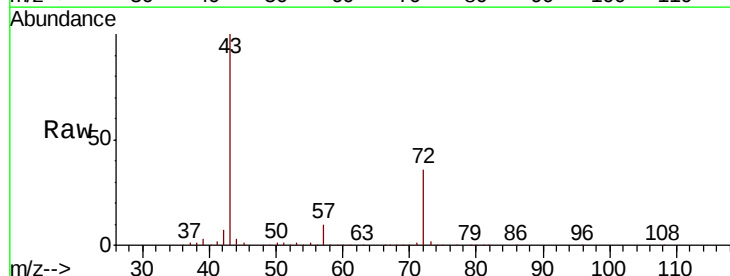
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

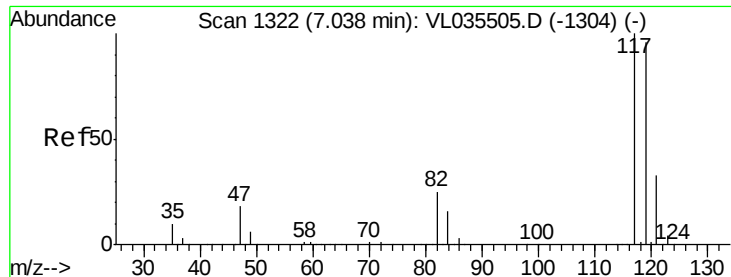
Tot Ion:114 Resp: 4513389
 Ion Ratio Lower Upper
 114 100
 63 18.5 14.7 22.1
 88 16.7 13.4 20.2



#34
 2-Butanone
 Concen: 14.765 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Tgt Ion: 43 Resp: 1969815
 Ion Ratio Lower Upper
 43 100
 72 35.0 27.7 41.5





#35

Carbon Tetrachloride

Concen: 16.028 ppbv

RT: 7.04 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

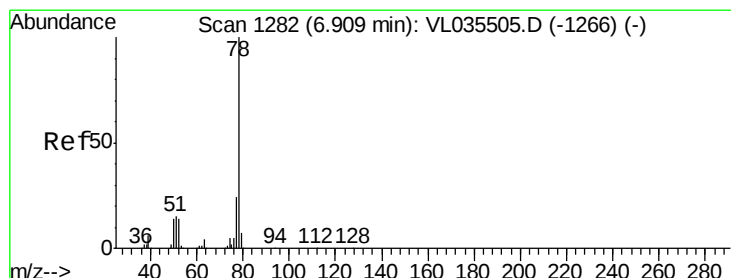
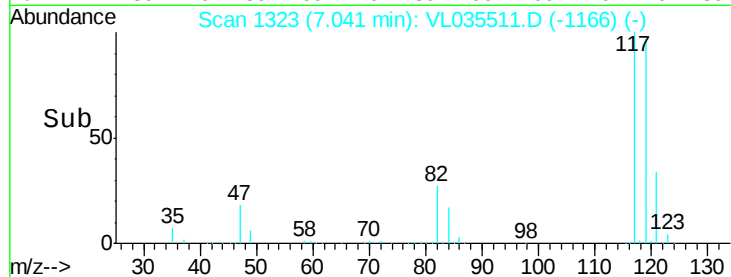
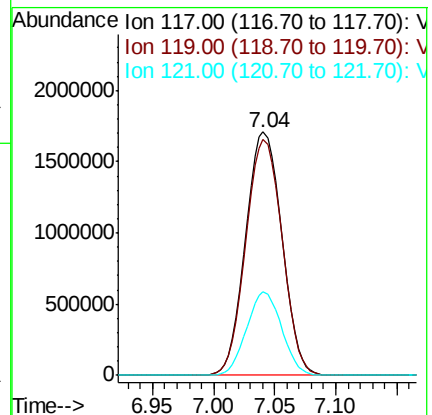
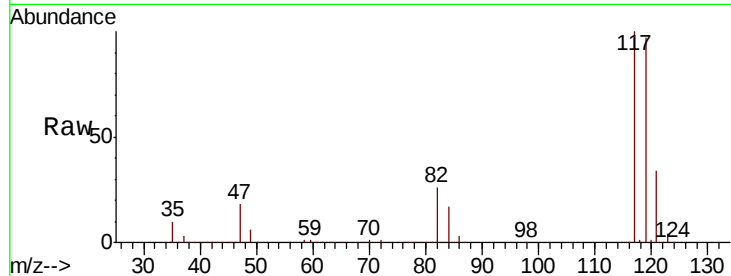
Tot Ion:117 Resp: 3519835

Ion Ratio Lower Upper

117 100

119 96.9 77.2 115.8

121 34.2 26.1 39.1



#36

Benzene

Concen: 13.957 ppbv

RT: 6.92 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

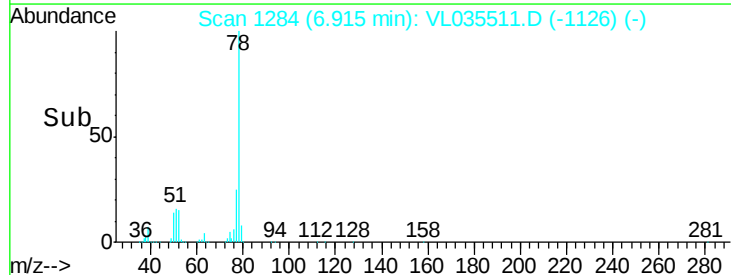
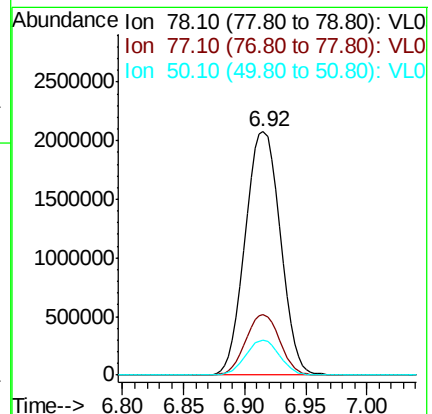
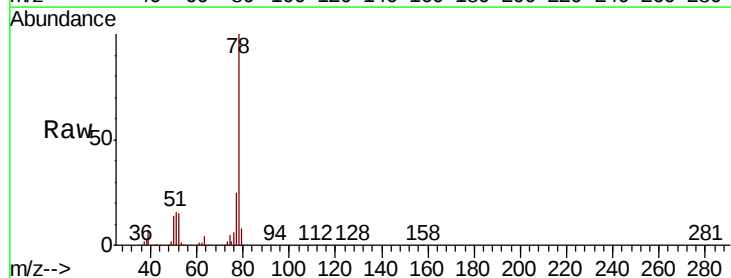
Tgt Ion: 78 Resp: 4144133

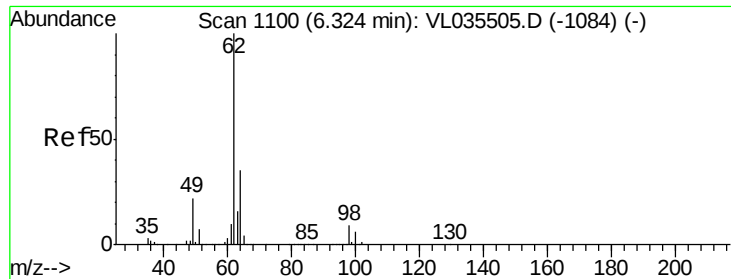
Ion Ratio Lower Upper

78 100

77 24.8 19.3 28.9

50 14.4 11.0 16.6

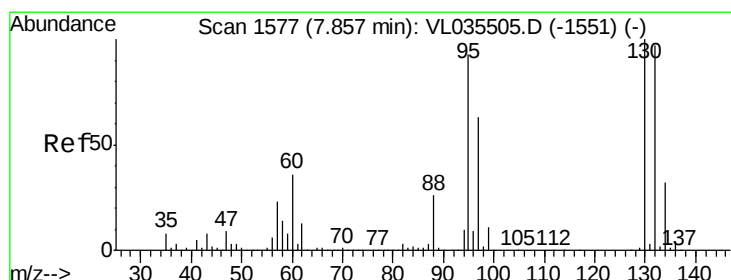
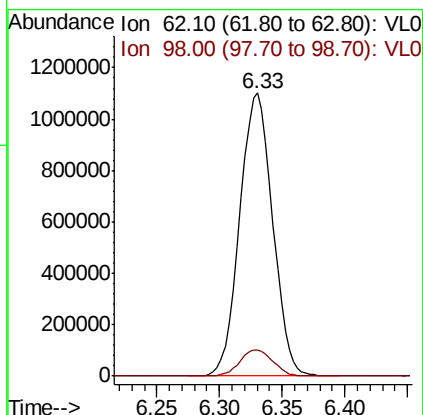
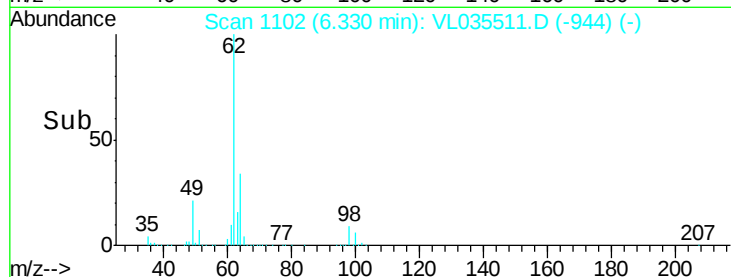
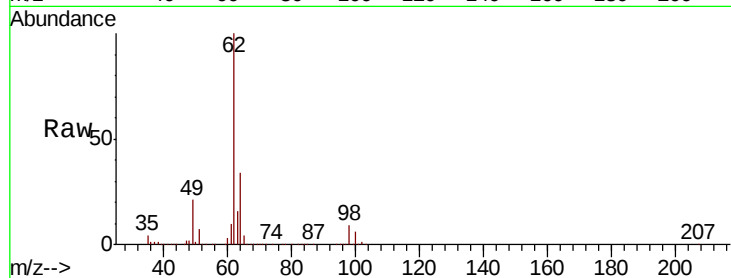




#37
 1,2-Dichloroethane
 Concen: 14.317 ppbv
 RT: 6.33 min Scan# 1102
 Delta R.T. 0.01 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

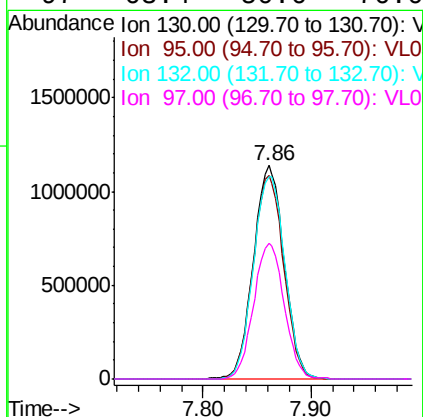
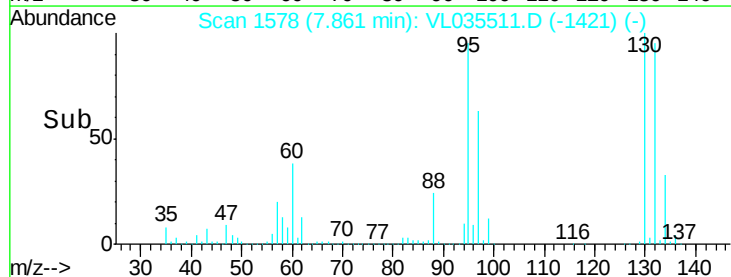
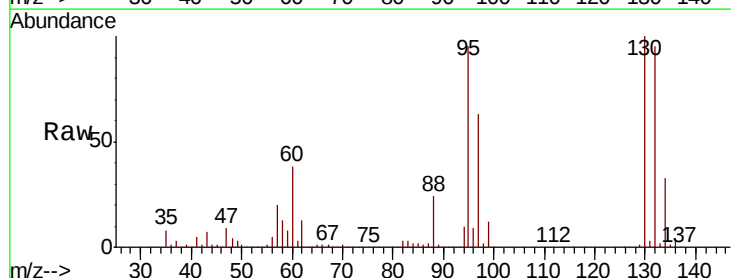
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

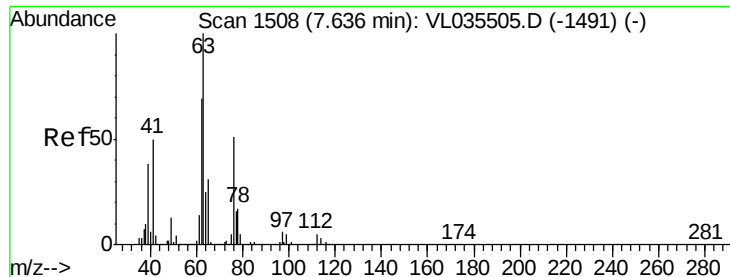
Tot Ion: 62 Resp: 2013026
 Ion Ratio Lower Upper
 62 100
 98 9.4 7.4 11.0



#38
 Trichloroethene
 Concen: 13.779 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Tgt Ion:130 Resp: 2260620
 Ion Ratio Lower Upper
 130 100
 95 95.1 74.6 112.0
 132 94.8 77.6 116.4
 97 63.4 50.6 76.0





#39

1,2-Dichloropropane

Concen: 14.200 ppbv

RT: 7.64 min Scan# 1509

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

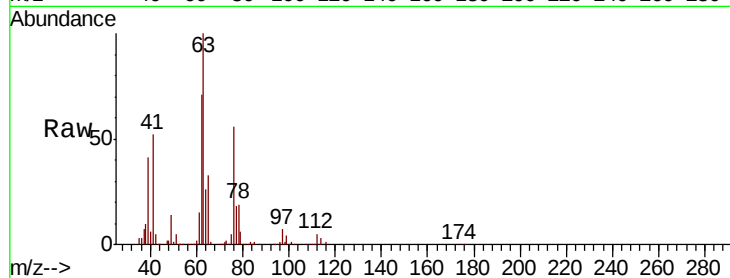
Tot Ion: 63 Resp: 1411605

Ion Ratio Lower Upper

63 100

41 52.0 40.0 60.0

62 70.7 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

800000

600000

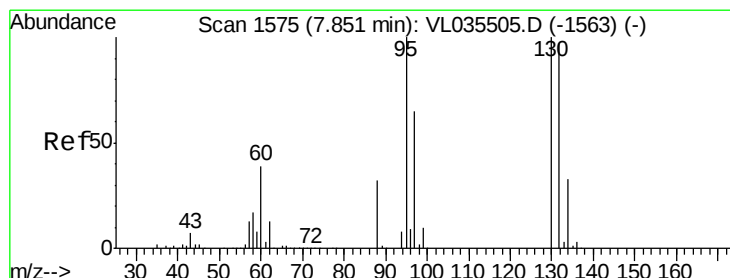
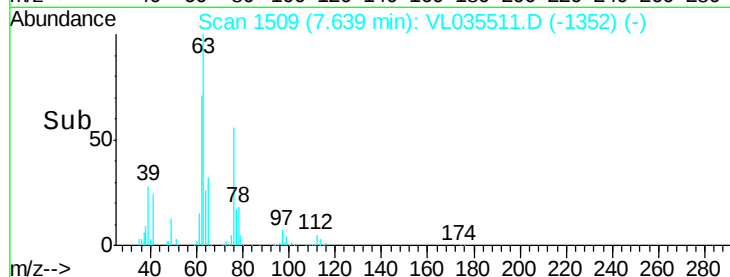
400000

200000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#40

1,4-Dioxane

Concen: 14.677 ppbv

RT: 7.85 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion: 88 Resp: 718698

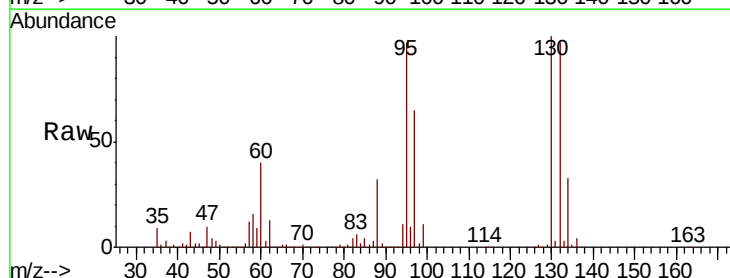
Ion Ratio Lower Upper

88 100

58 87.3 68.7 103.1

43 135.9 104.3 156.5

57 716.4 560.7 841.1



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

3000000

2500000

2000000

1500000

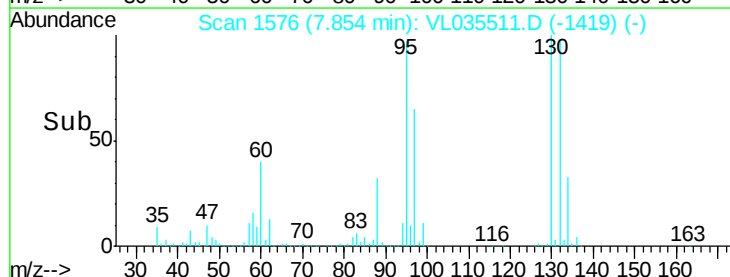
1000000

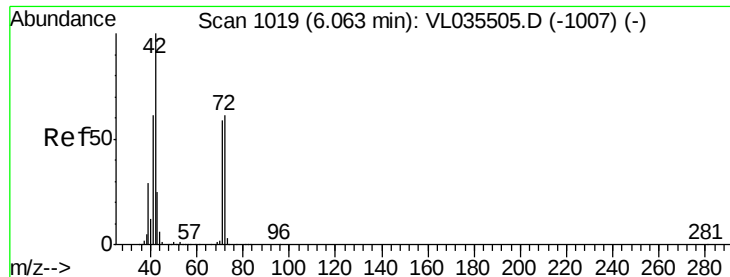
500000

0

7.75 7.80 7.85 7.90 7.95

Time-->





#41

Tetrahydrofuran

Concen: 15.524 ppbv

RT: 6.07 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

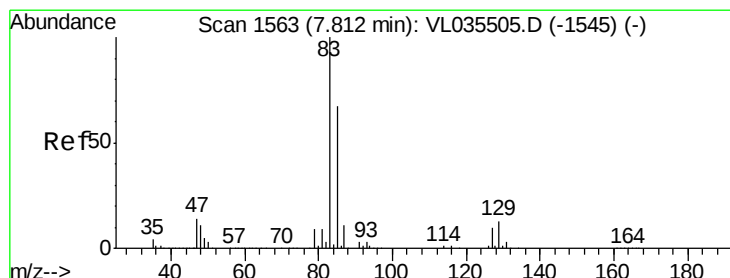
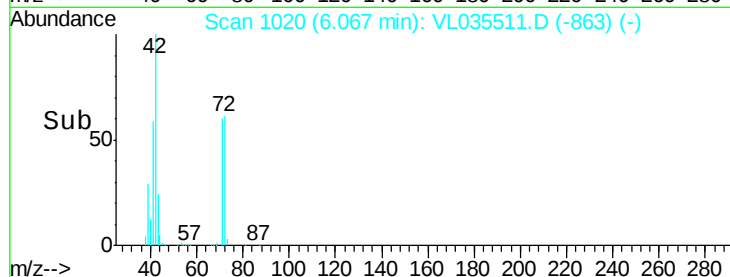
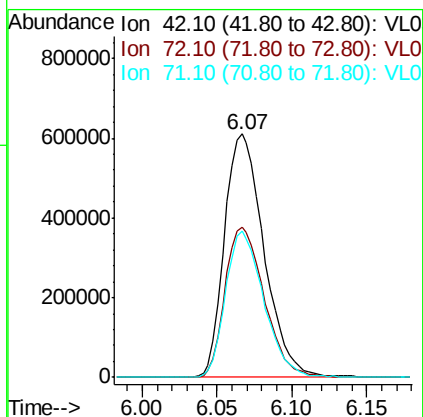
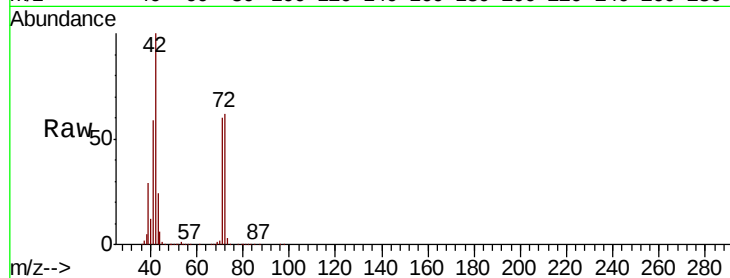
Tot Ion: 42 Resp: 1122250

Ion Ratio Lower Upper

42 100

72 61.6 48.6 73.0

71 58.4 46.1 69.1



#42

Bromodichloromethane

Concen: 15.036 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

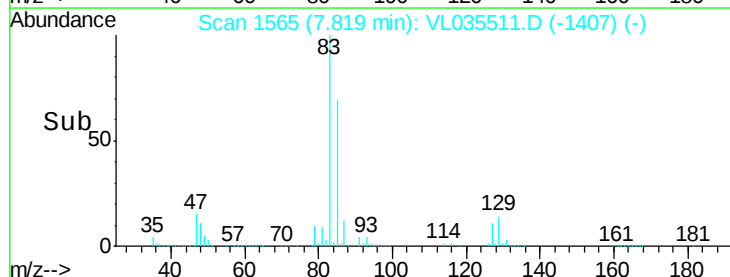
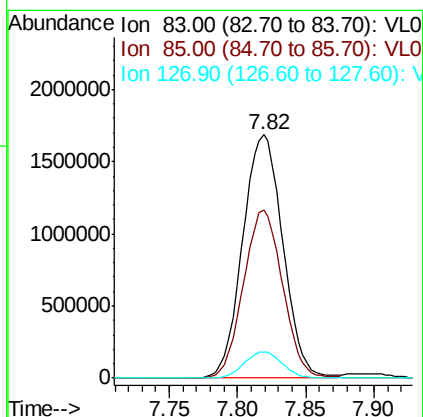
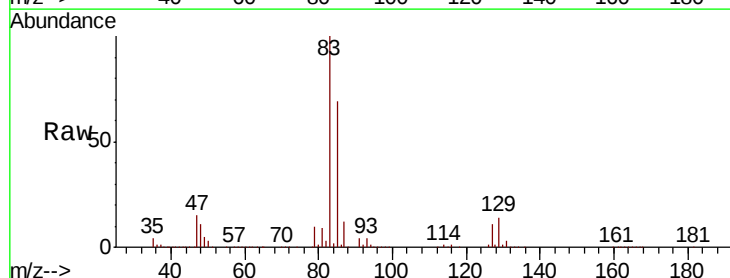
Tgt Ion: 83 Resp: 3452462

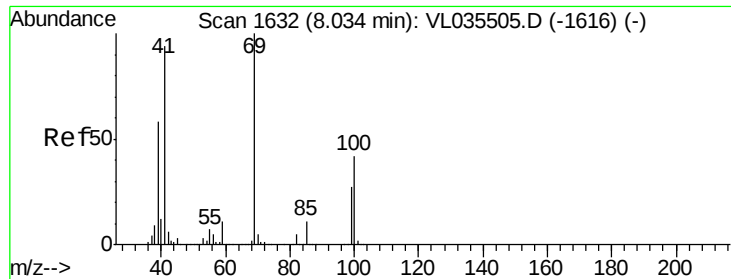
Ion Ratio Lower Upper

83 100

85 69.0 53.7 80.5

127 10.7 8.1 12.1

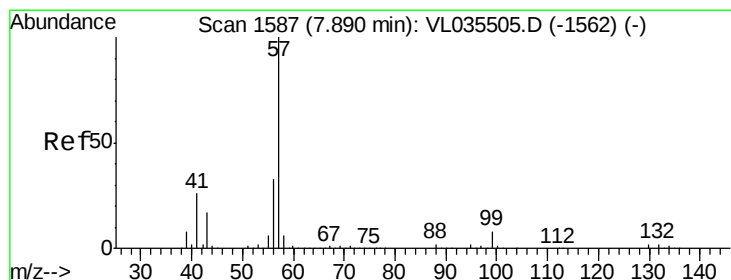
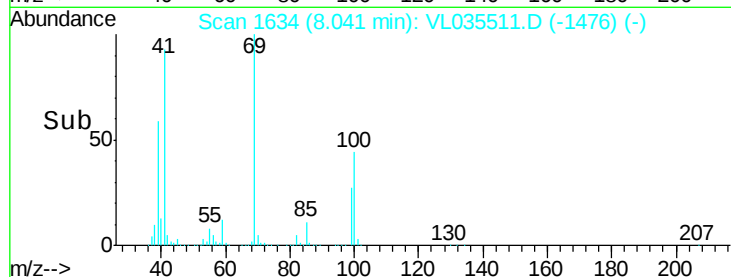
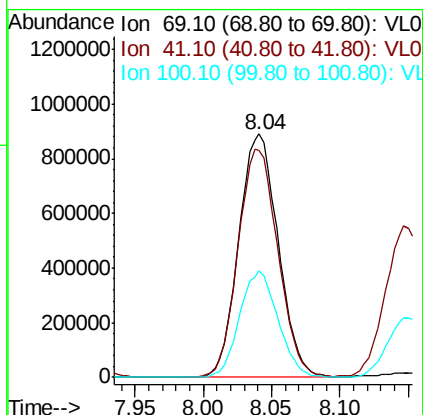
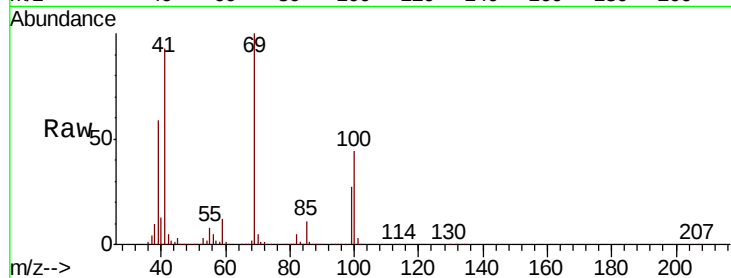




#43
Methvl Methacrilate
Concen: 15.512 ppbv
RT: 8.04 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VL035511.D
Acq: 27 Aug 2020 6:02

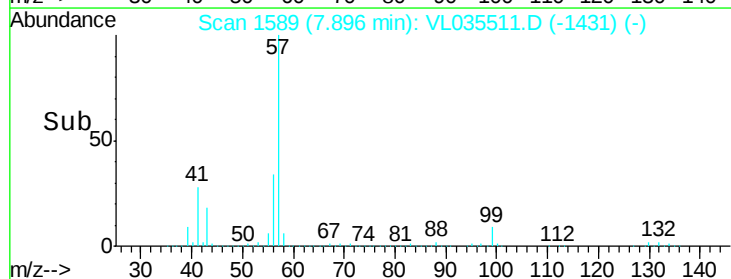
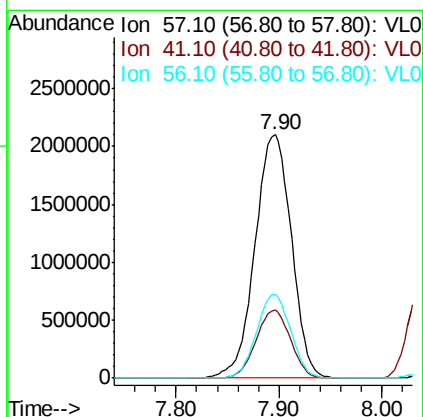
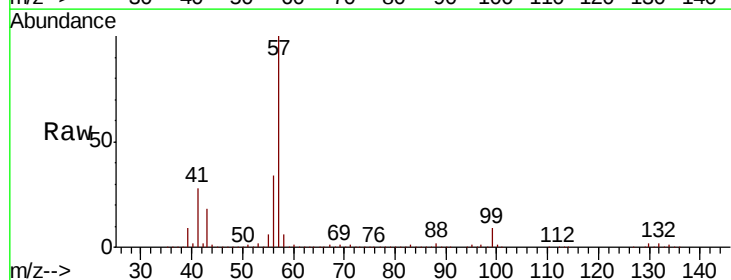
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

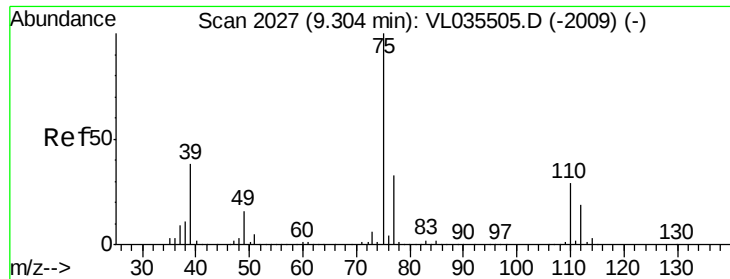
Tot Ion: 69 Resp: 1783417
Ion Ratio Lower Upper
69 100
41 95.1 76.6 114.8
100 42.6 33.8 50.6



#44
2,2,4-Trimethylpentane
Concen: 13.227 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. 0.01 min
Lab File: VL035511.D
Acq: 27 Aug 2020 6:02

Tgt Ion: 57 Resp: 5144098
Ion Ratio Lower Upper
57 100
41 26.6 20.5 30.7
56 32.4 25.3 37.9





#45

t-1,3-Dichloropropene

Concen: 17.626 ppbv

RT: 9.31 min Scan# 2028

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

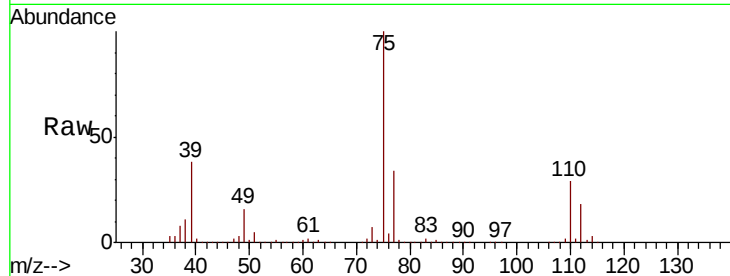
VSTDIC015

Tot Ion: 75 Resp: 2072914

Ion Ratio Lower Upper

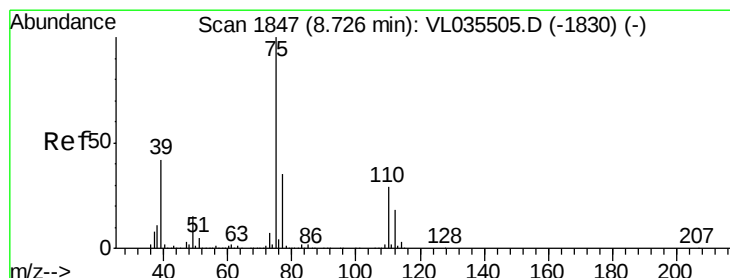
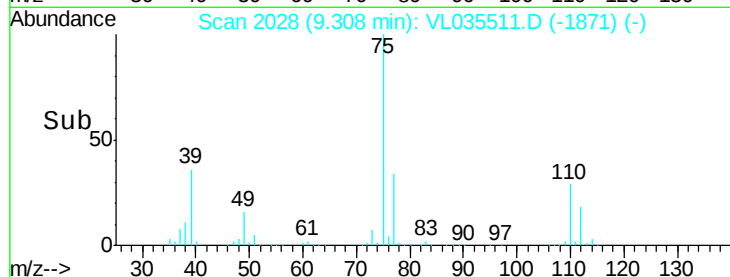
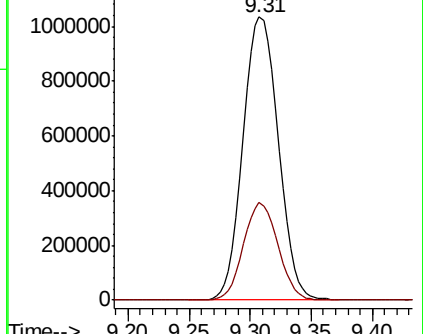
75 100

77 34.3 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: 16.543 ppbv

RT: 8.73 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

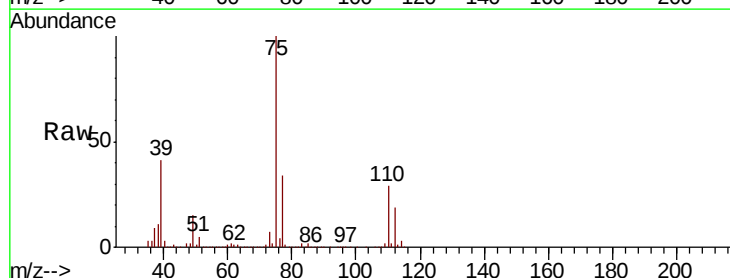
Tgt Ion: 75 Resp: 2411402

Ion Ratio Lower Upper

75 100

39 41.3 33.7 50.5

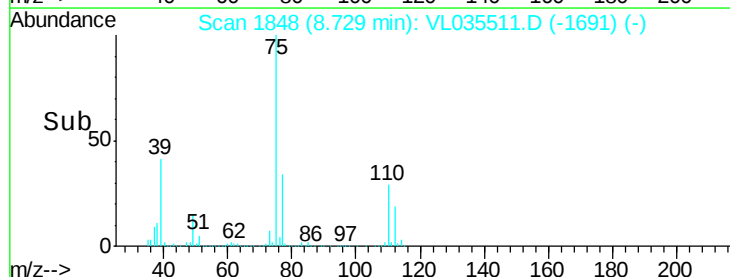
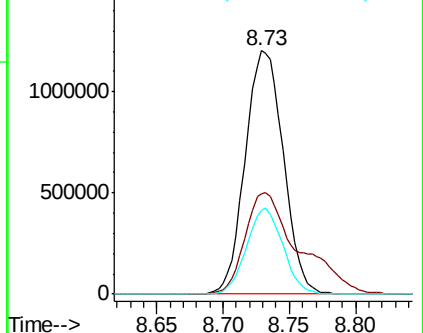
77 34.5 27.8 41.6

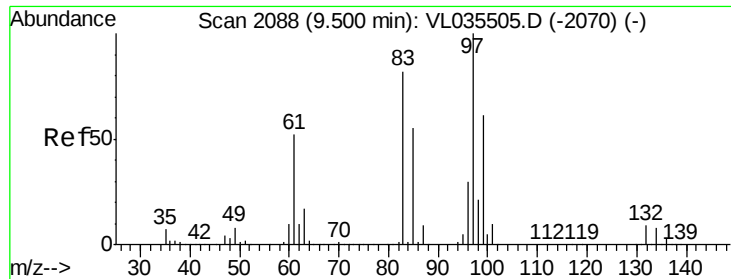


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



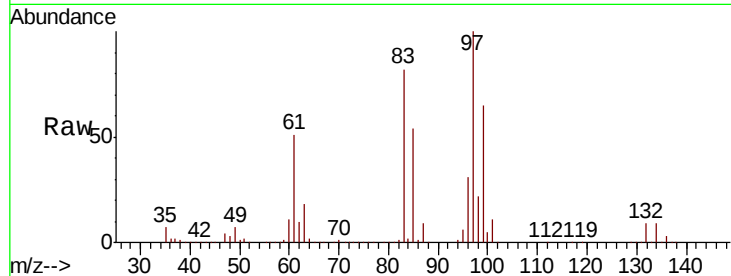


#47
 1,1,2-Trichloroethane
 Concen: 14.196 ppbv
 RT: 9.51 min Scan# 2090
 Delta R.T. 0.01 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 2109637

Ion	Ratio	Lower	Upper
97	100		
83	82.0	65.4	98.2
85	53.9	43.7	65.5
99	64.8	49.1	73.7



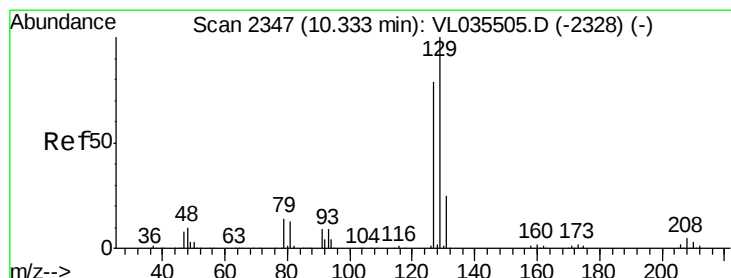
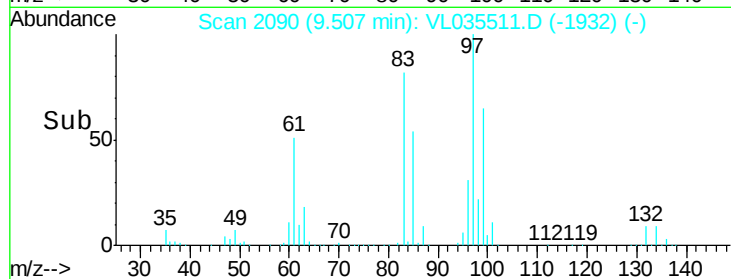
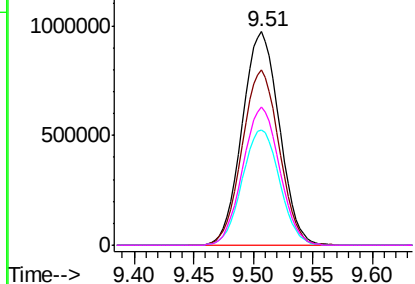
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

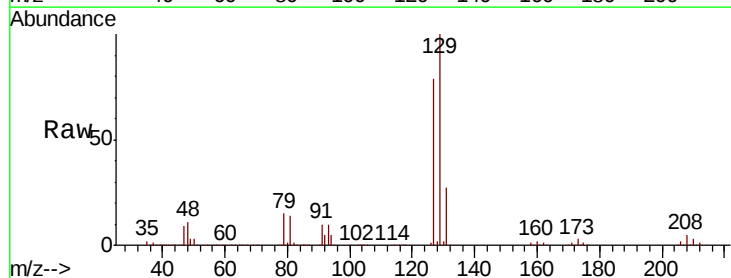
Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 15.894 ppbv
 RT: 10.34 min Scan# 2348
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Tgt Ion: 129 Resp: 3750271

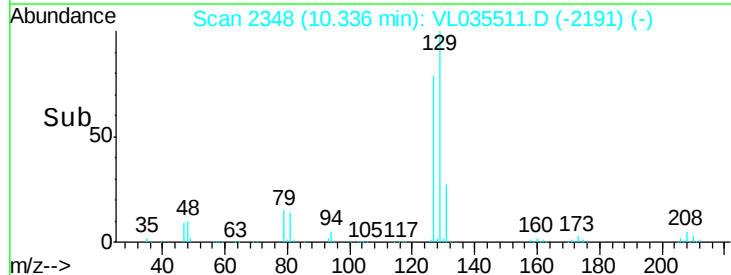
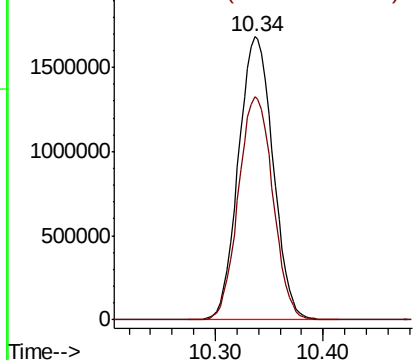
Ion	Ratio	Lower	Upper
129	100		
127	78.9	39.3	117.8

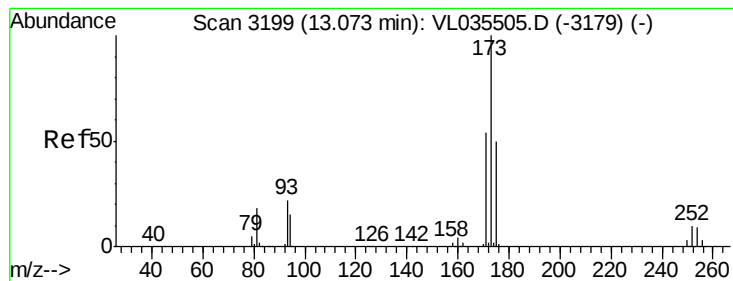


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 16.635 ppbv

RT: 13.08 min Scan# 3201

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

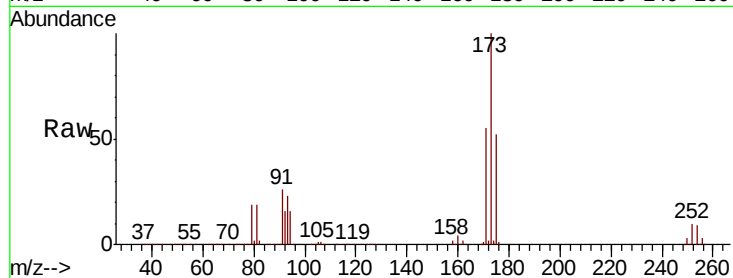
Tot Ion:173 Resp: 3636754

Ion Ratio Lower Upper

173 100

175 51.0 39.8 59.8

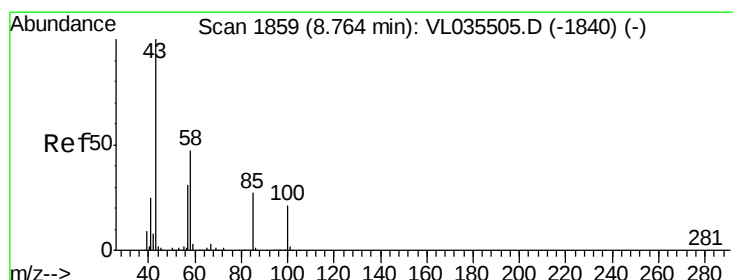
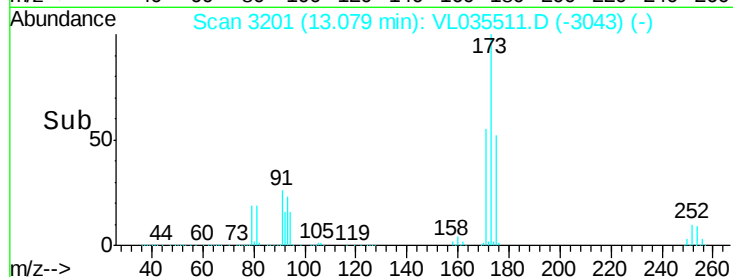
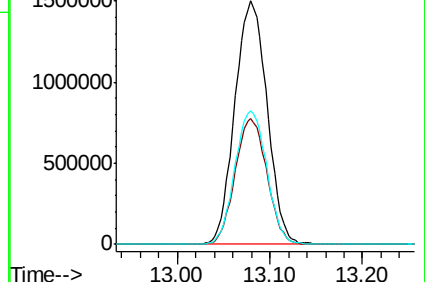
171 54.2 42.4 63.6



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 14.877 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VL035511.D

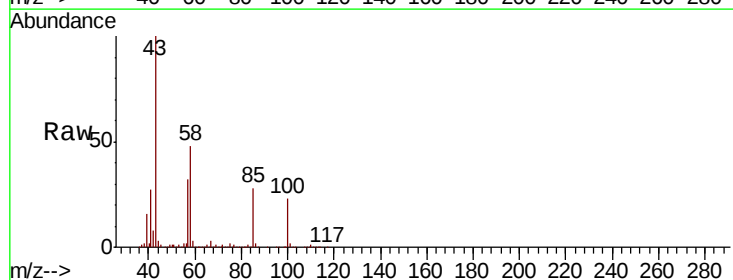
Acq: 27 Aug 2020 6:02

Tgt Ion: 43 Resp: 2859658

Ion Ratio Lower Upper

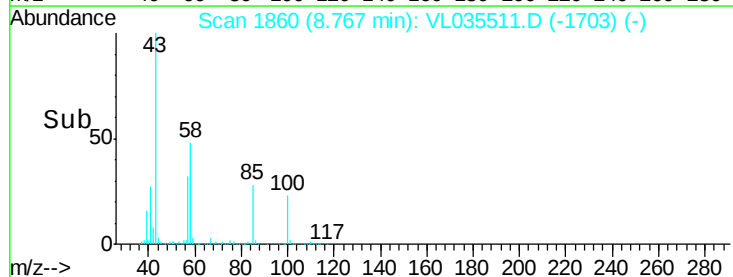
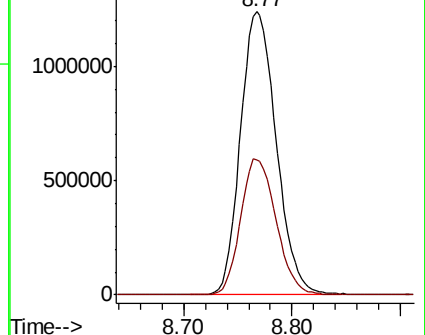
43 100

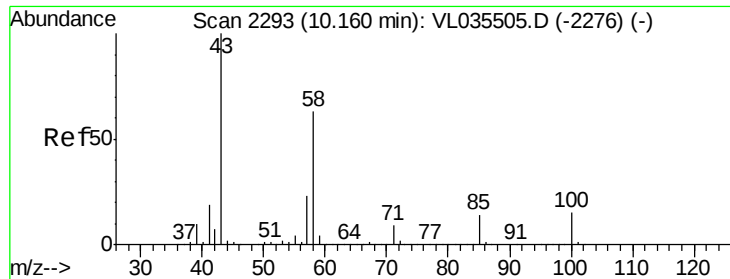
58 47.8 37.4 56.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.123 ppbv

RT: 10.16 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

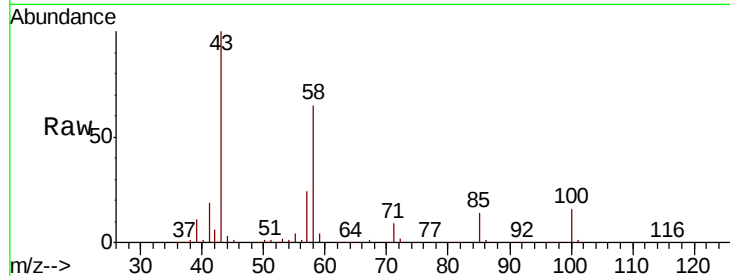
Tot Ion: 43 Resp: 2539922

Ion Ratio Lower Upper

43 100

58 63.7 50.2 75.4

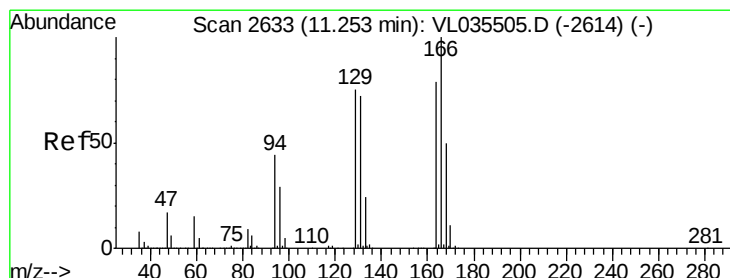
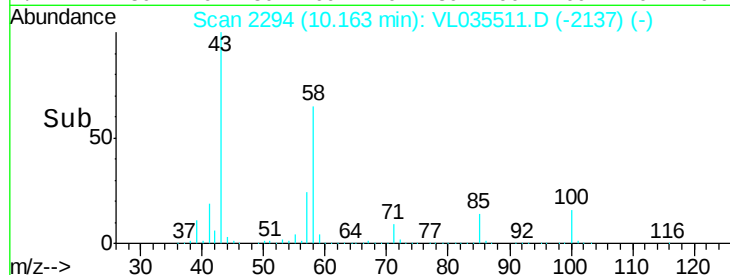
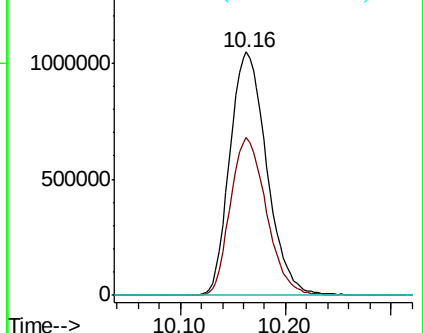
98 0.4 0.4 0.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 13.854 ppbv

RT: 11.26 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion:164 Resp: 2387720

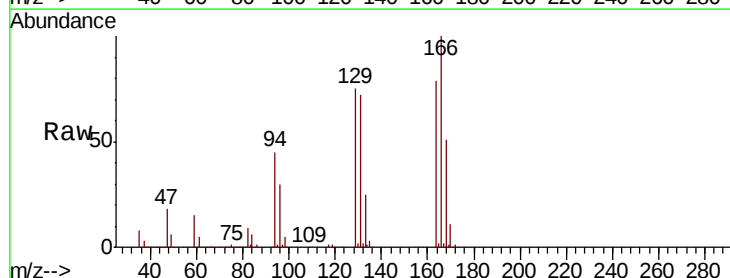
Ion Ratio Lower Upper

164 100

166 126.4 100.9 151.3

129 94.2 75.3 112.9

131 91.1 73.0 109.4

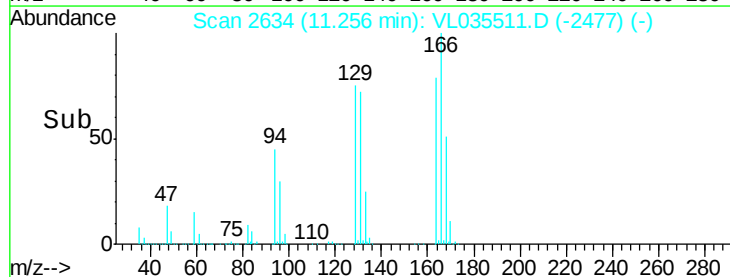
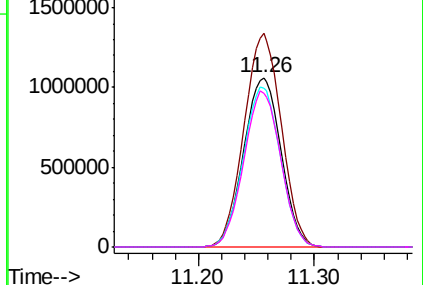


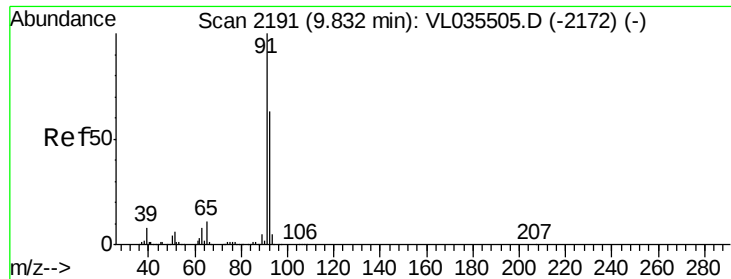
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 14.057 ppbv

RT: 9.84 min Scan# 2193

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

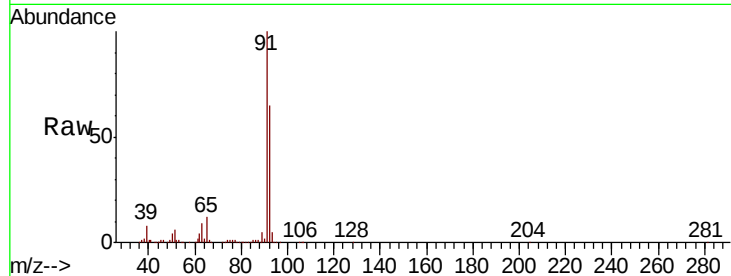
VSTDIC015

Tot Ion: 91 Resp: 5281609

Ion Ratio Lower Upper

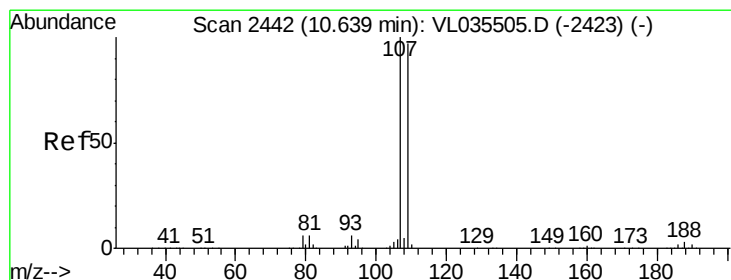
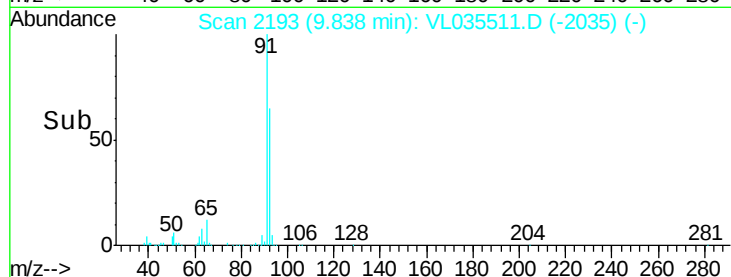
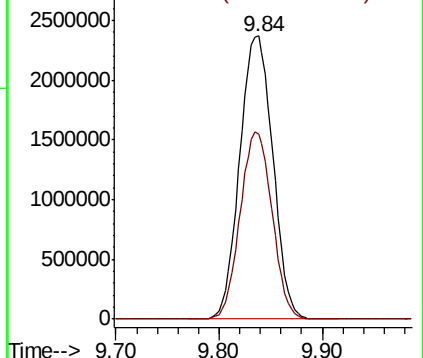
91 100

92 63.9 49.8 74.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 14.355 ppbv

RT: 10.65 min Scan# 2444

Delta R.T. 0.01 min

Lab File: VL035511.D

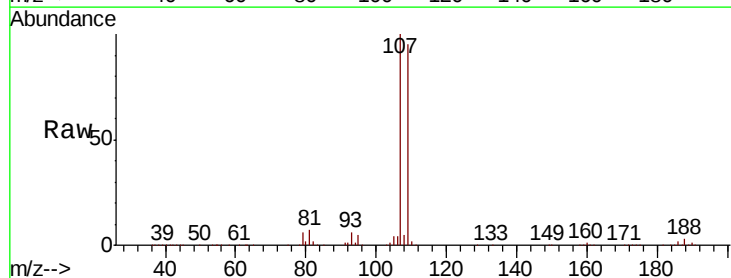
Acq: 27 Aug 2020 6:02

Tgt Ion: 107 Resp: 3385608

Ion Ratio Lower Upper

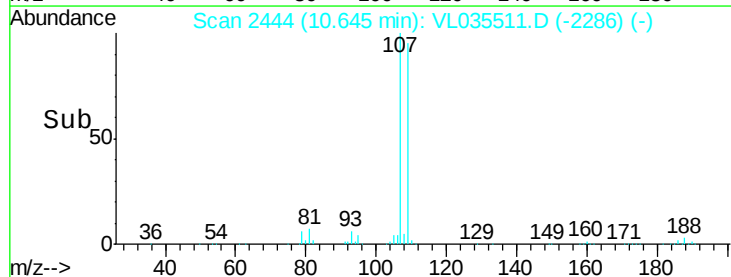
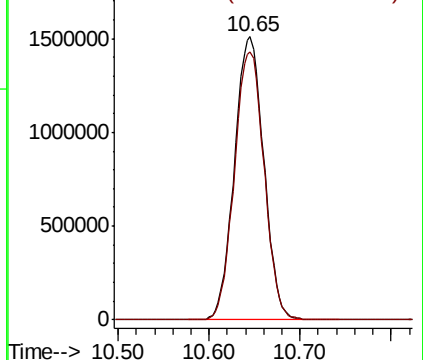
107 100

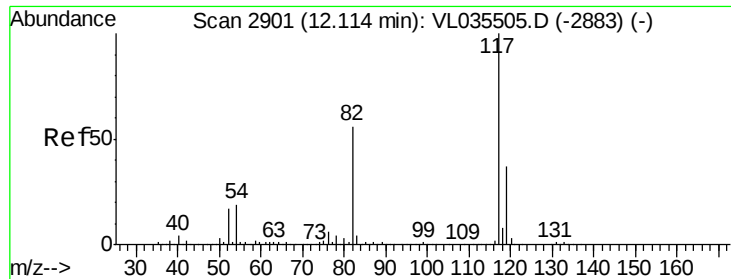
109 94.5 77.8 116.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

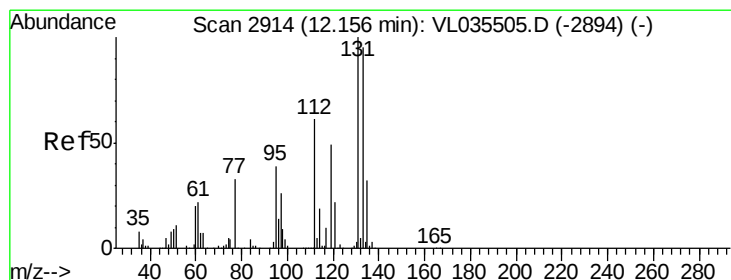
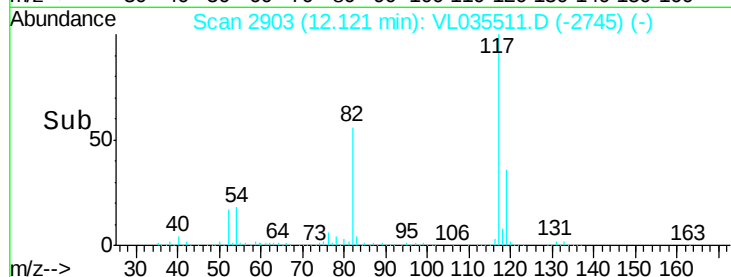
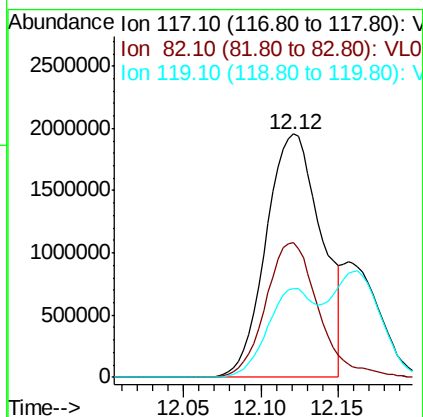
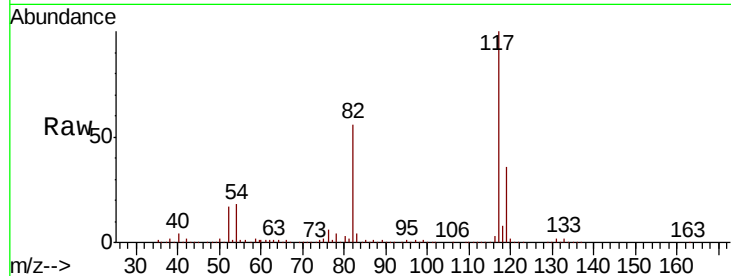




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL035511.D
Acq: 27 Aug 2020 6:02

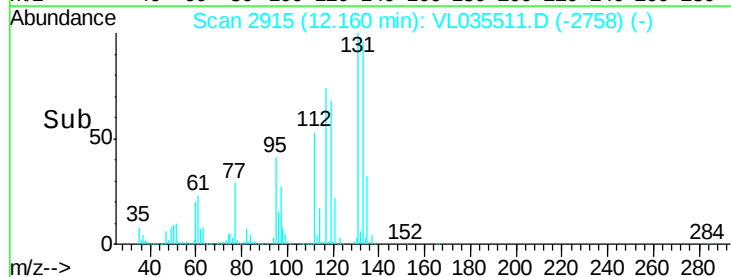
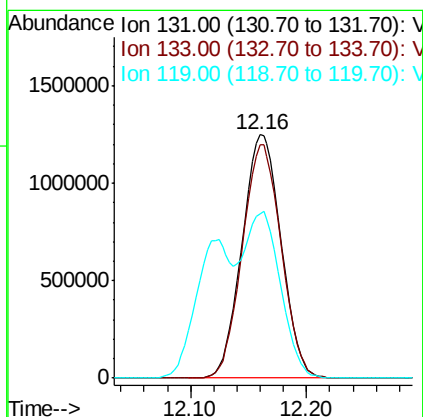
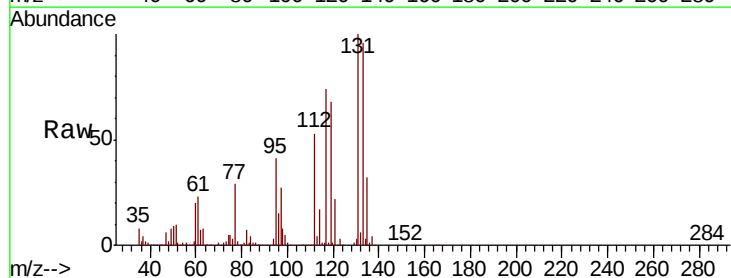
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

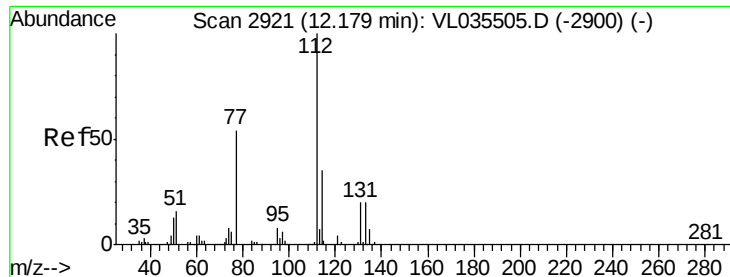
Tot Ion:117 Resp: 4860686
Ion Ratio Lower Upper
117 100
82 53.3 41.6 62.4
119 30.8 29.3 43.9



#56
1,1,1,2-Tetrachloroethane
Concen: 14.401 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL035511.D
Acq: 27 Aug 2020 6:02

Tgt Ion:131 Resp: 2923070
Ion Ratio Lower Upper
131 100
133 95.8 76.6 115.0
119 71.2 51.6 77.4





#57

Chlorobenzene

Concen: 12.696 ppbv

RT: 12.18 min Scan# 2922

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

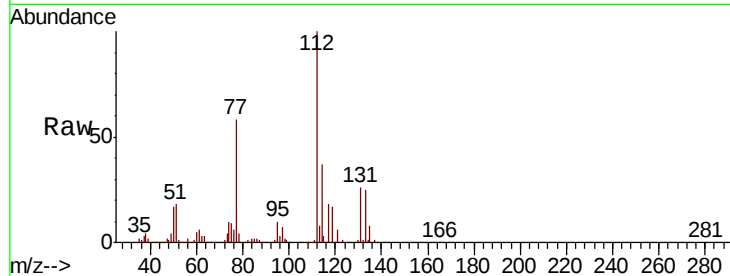
Tot Ion:112 Resp: 4589981

Ion Ratio Lower Upper

112 100

77 58.1 44.2 66.4

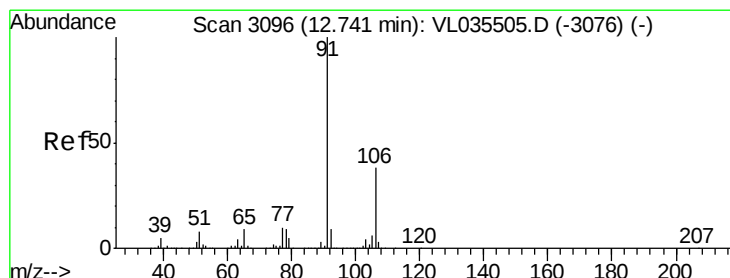
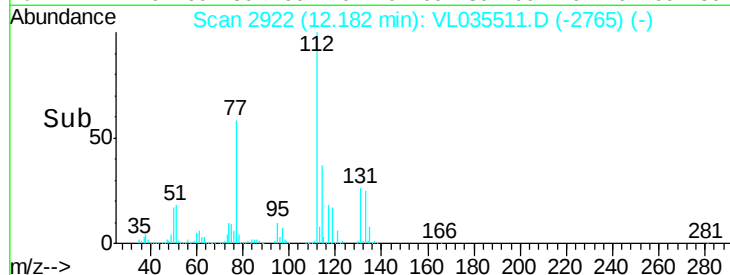
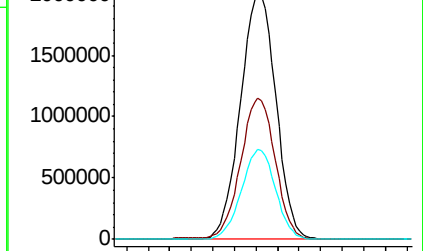
114 37.0 31.6 38.6



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 13.305 ppbv

RT: 12.74 min Scan# 3097

Delta R.T. 0.00 min

Lab File: VL035511.D

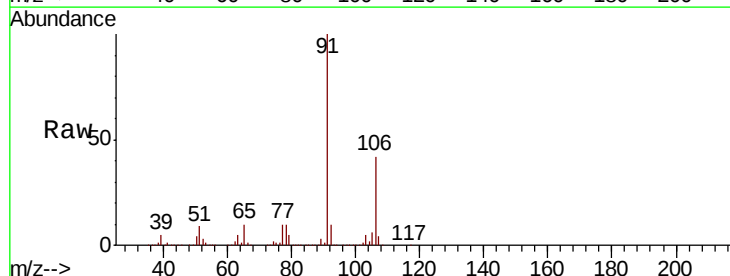
Acq: 27 Aug 2020 6:02

Tgt Ion: 91 Resp: 6851231

Ion Ratio Lower Upper

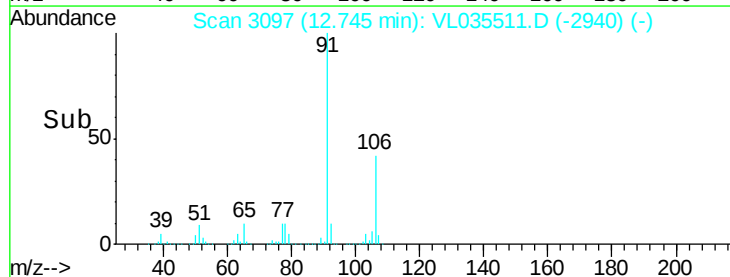
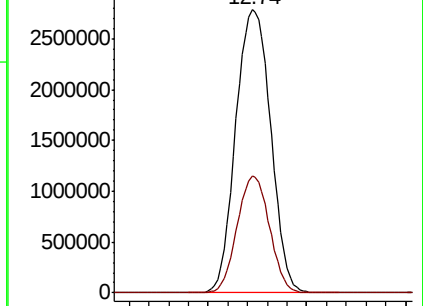
91 100

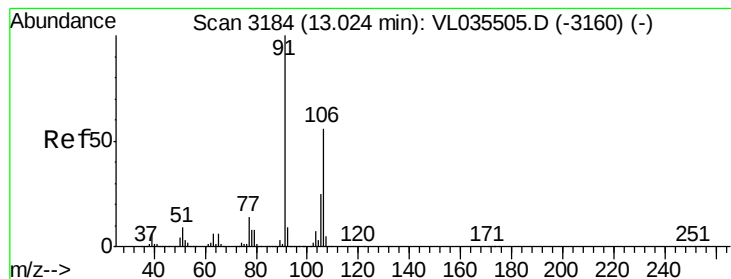
106 41.6 30.3 45.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 12.918 ppbv

RT: 13.03 min Scan# 3187

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

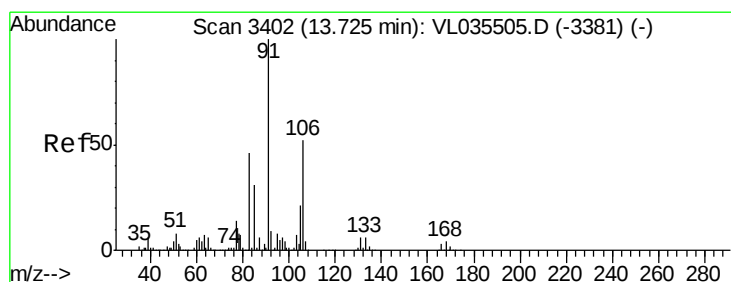
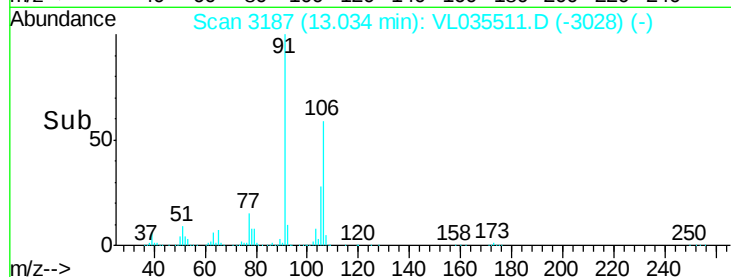
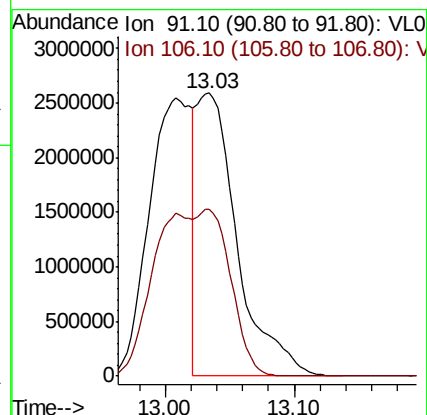
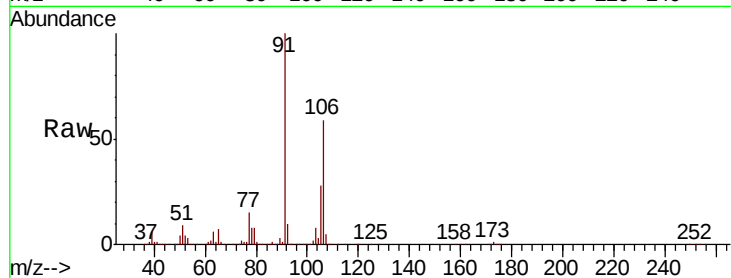
VSTDIC015

Tot Ion: 91 Resp: 5653710

Ion Ratio Lower Upper

91 100

106 109.0 43.4 65.2#



#60

o-Xylene

Concen: 13.185 ppbv

RT: 13.73 min Scan# 3404

Delta R.T. 0.01 min

Lab File: VL035511.D

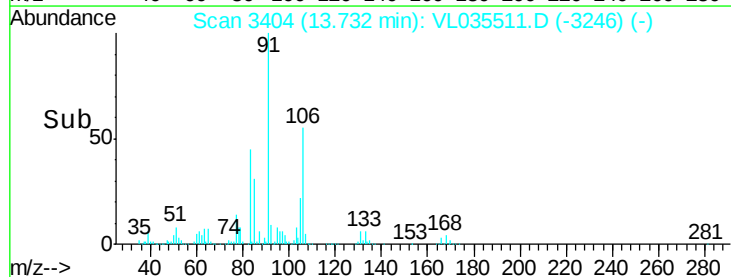
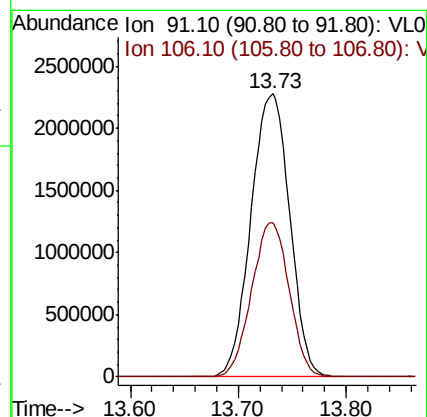
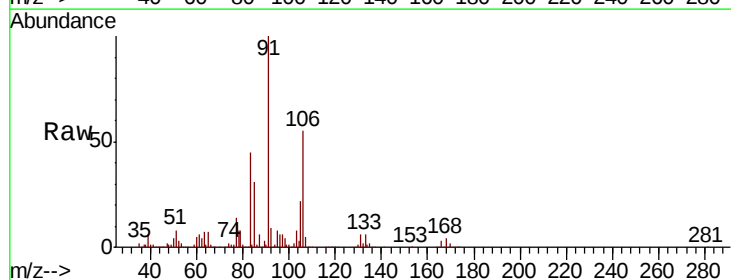
Acq: 27 Aug 2020 6:02

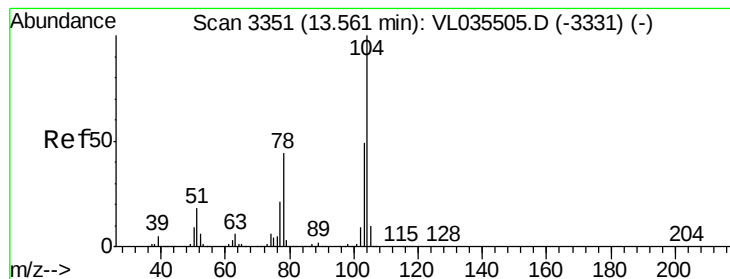
Tgt Ion: 91 Resp: 5683889

Ion Ratio Lower Upper

91 100

106 52.9 25.8 77.4





#61

Stvrene

Concen: 14.590 ppbv

RT: 13.56 min Scan# 3352

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

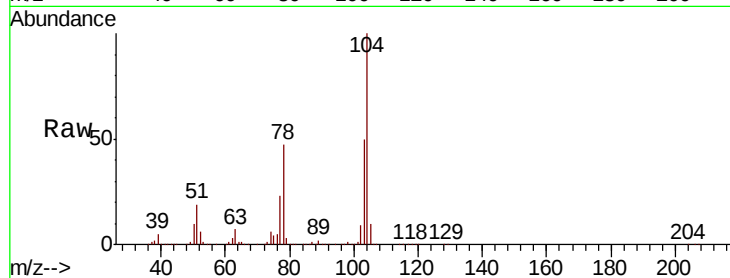
Tot Ion:104 Resp: 4844386

Ion Ratio Lower Upper

104 100

78 45.1 34.8 52.2

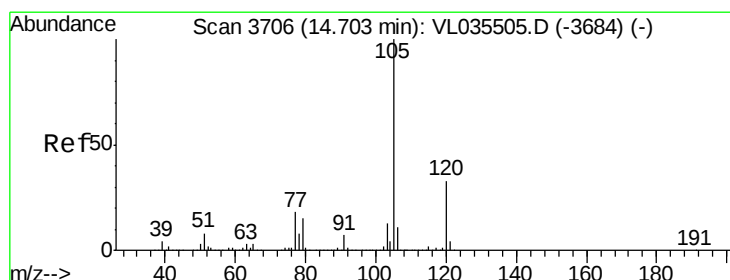
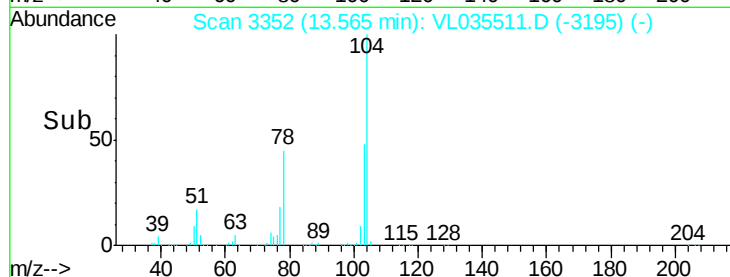
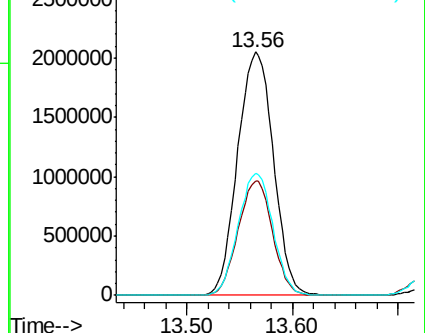
103 48.7 38.2 57.4



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: 12.216 ppbv

RT: 14.71 min Scan# 3707

Delta R.T. 0.00 min

Lab File: VL035511.D

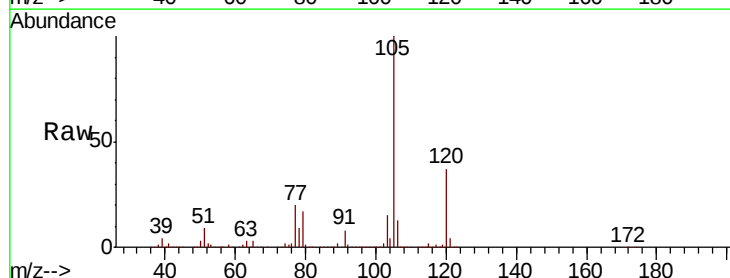
Acq: 27 Aug 2020 6:02

Tgt Ion:105 Resp: 8514667

Ion Ratio Lower Upper

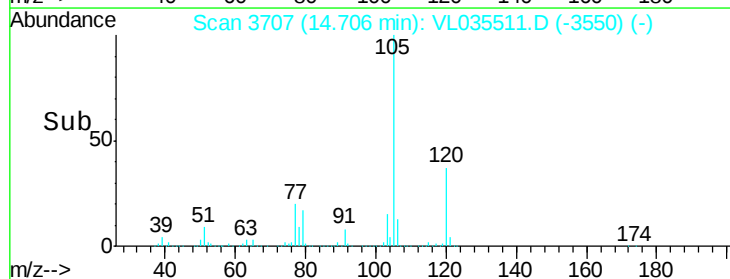
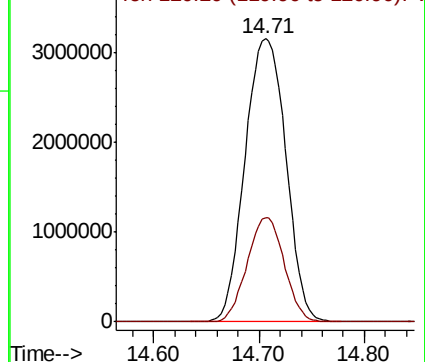
105 100

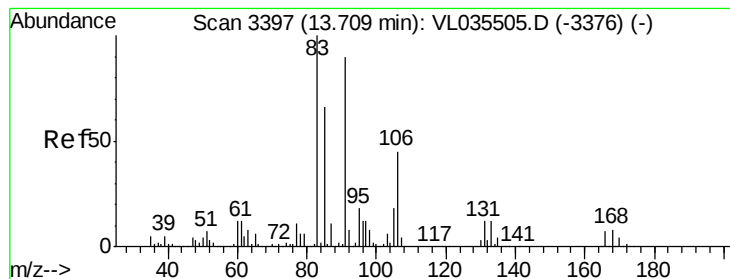
120 33.5 25.0 37.4



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: 12.732 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

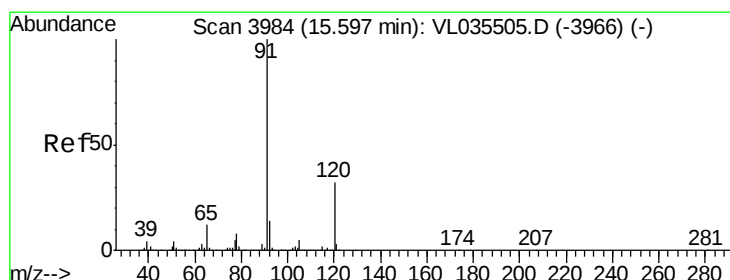
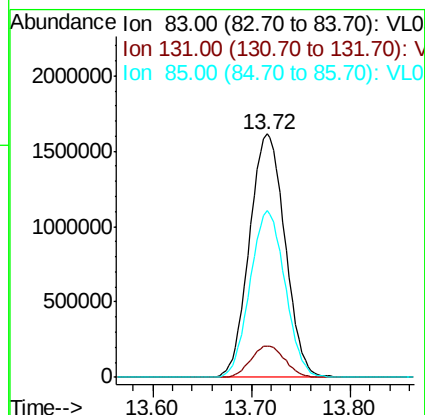
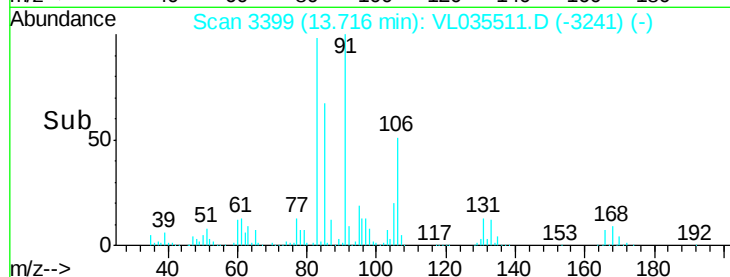
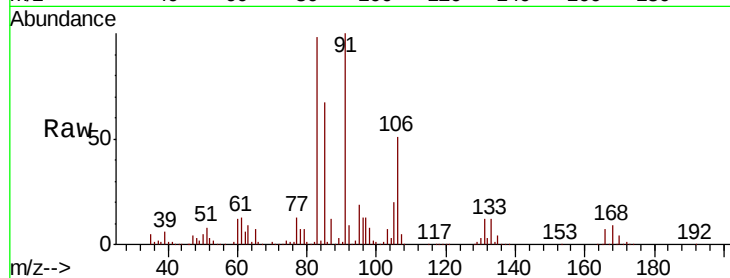
Tot Ion: 83 Resp: 4011902

Ion Ratio Lower Upper

83 100

131 12.4 6.0 18.0

85 67.5 33.4 100.2



#64

n-propylbenzene

Concen: 13.924 ppbv

RT: 15.60 min Scan# 3986

Delta R.T. 0.01 min

Lab File: VL035511.D

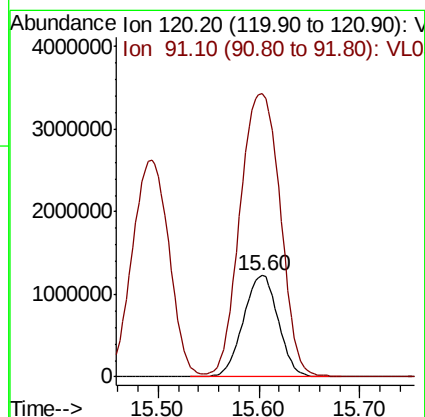
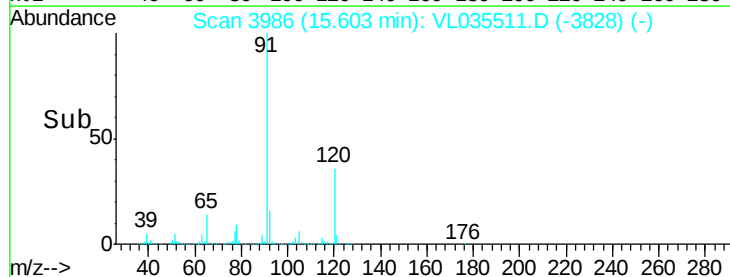
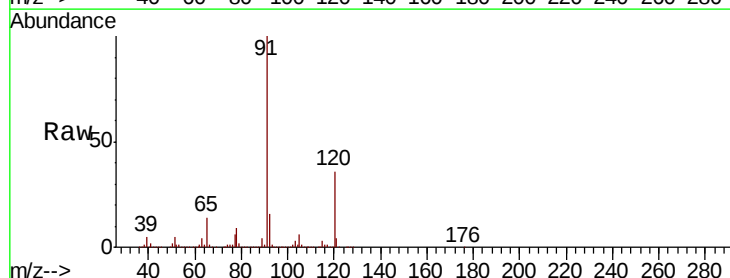
Acq: 27 Aug 2020 6:02

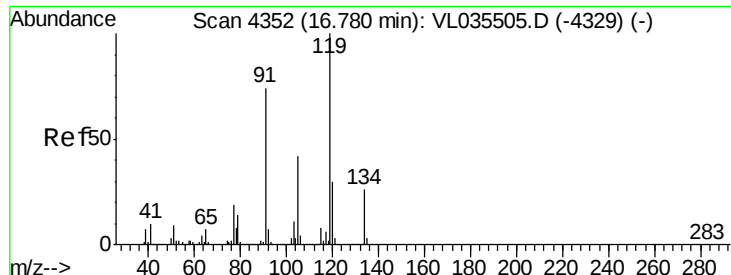
Tgt Ion: 120 Resp: 2953309

Ion Ratio Lower Upper

120 100

91 322.2 279.4 419.0





#65

tert-Butylbenzene

Concen: 12.416 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

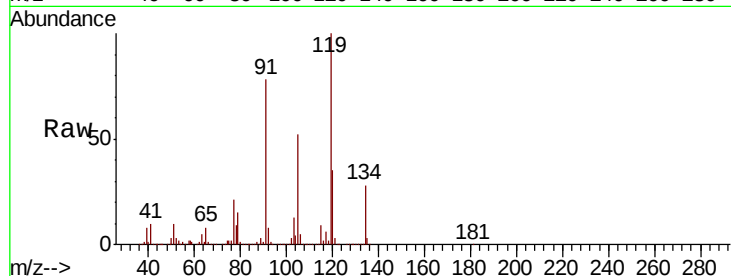
Tot Ion:119 Resp: 8215661

Ion Ratio Lower Upper

119 100

91 75.6 58.6 87.8

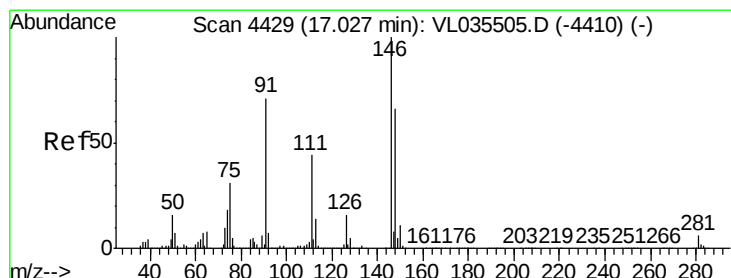
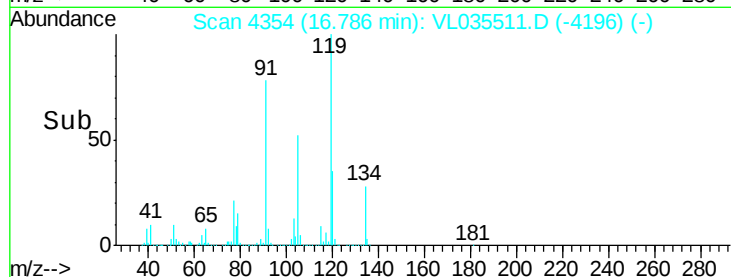
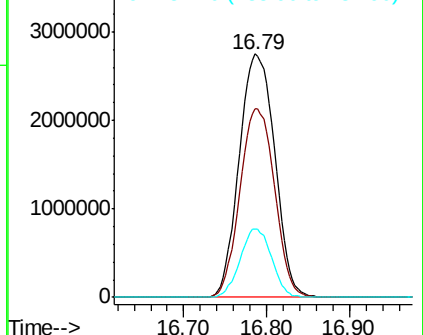
134 24.8 18.9 28.3



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: 19.997 ppbv

RT: 17.03 min Scan# 4430

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

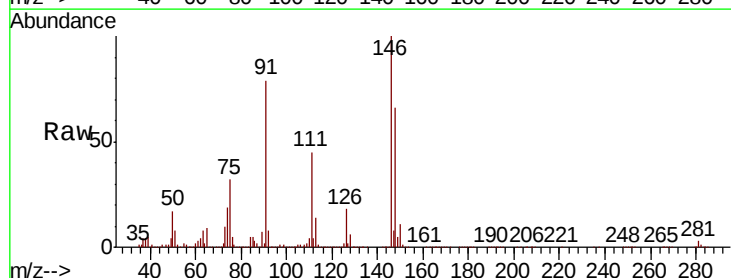
Tgt Ion: 91 Resp: 3219049

Ion Ratio Lower Upper

91 100

126 21.9 17.2 25.8

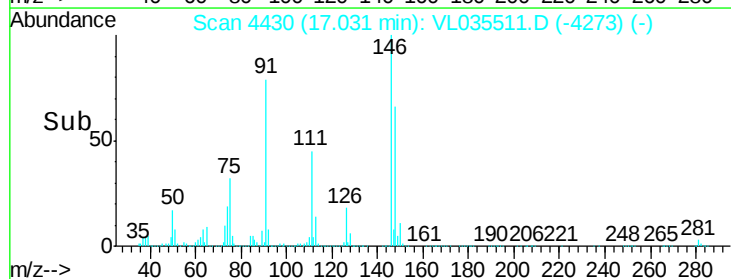
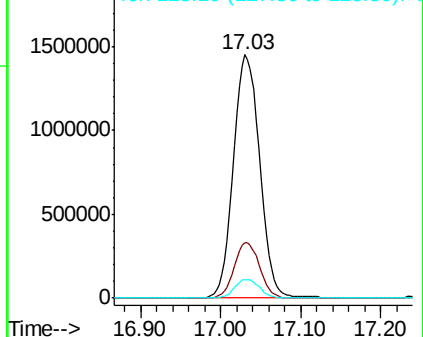
128 7.2 5.5 8.3

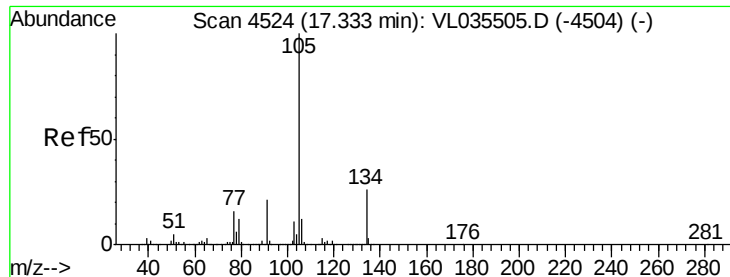


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 11.674 ppbv

RT: 17.34 min Scan# 4525

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

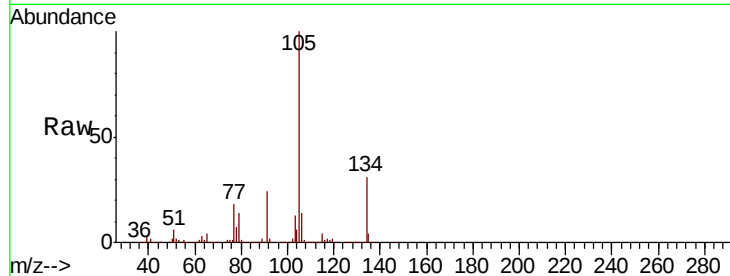
VSTDIC015

Tot Ion:105 Resp:10272300

Ion Ratio Lower Upper

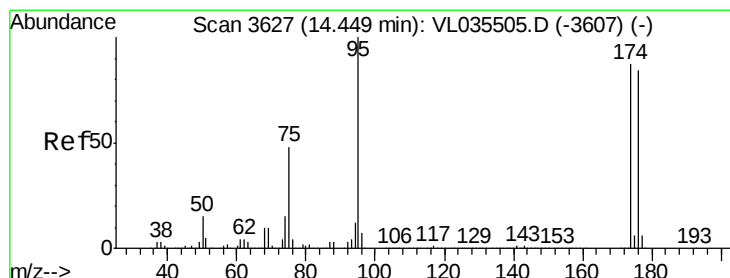
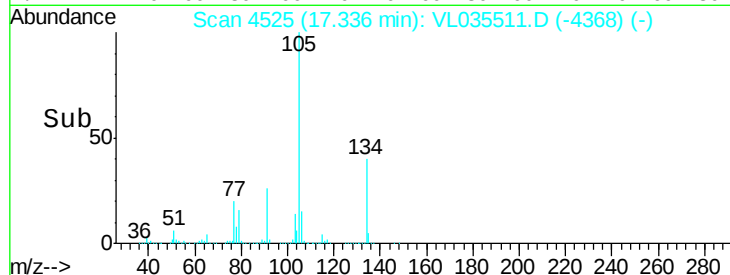
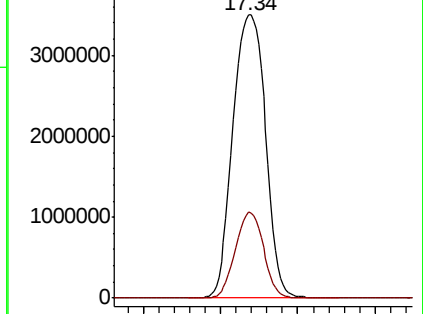
105 100

134 26.2 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: 9.837 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

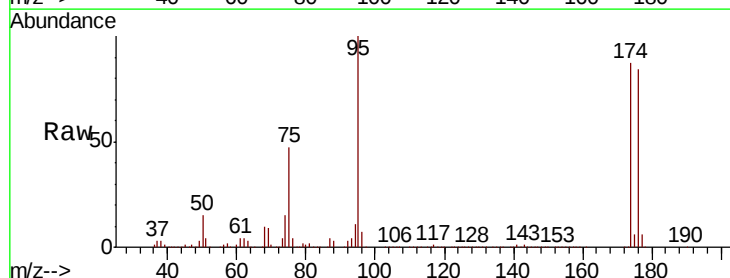
Tgt Ion: 95 Resp: 3389370

Ion Ratio Lower Upper

95 100

174 87.2 69.6 104.4

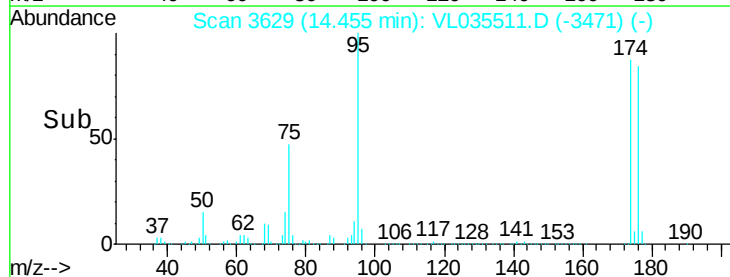
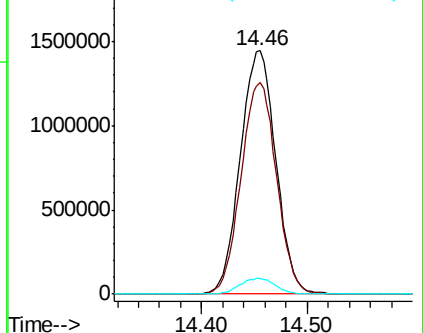
175 6.4 5.1 7.7

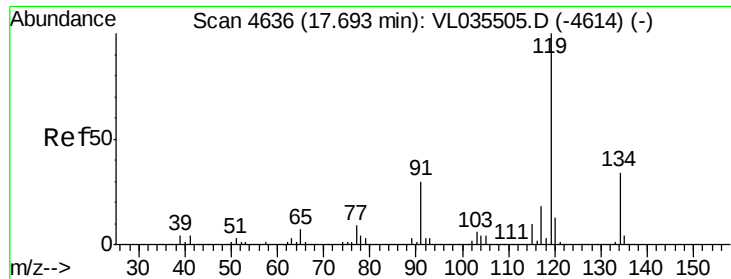


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

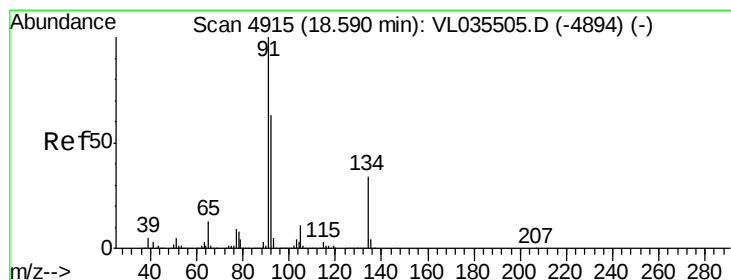
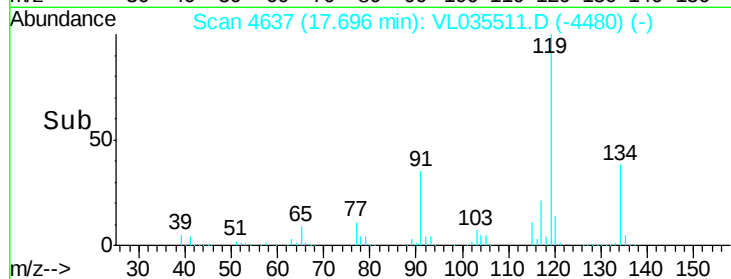
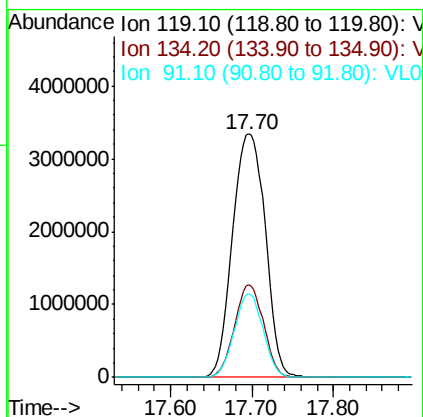
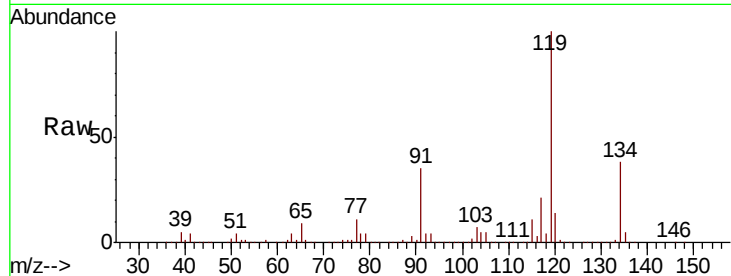




#69
 p-Isopropyltoluene
 Concen: 12.157 ppbv
 RT: 17.70 min Scan# 4637
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

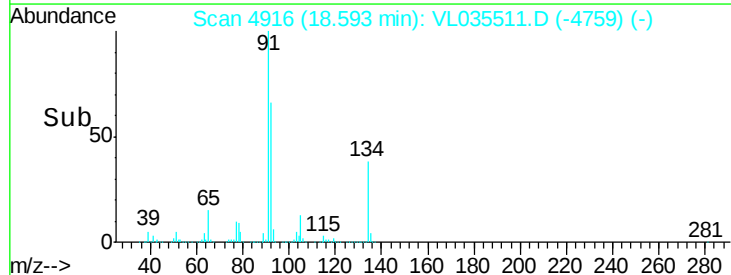
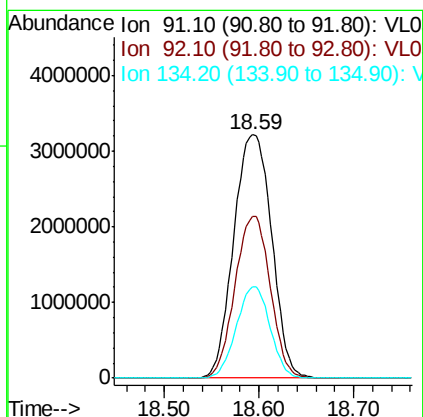
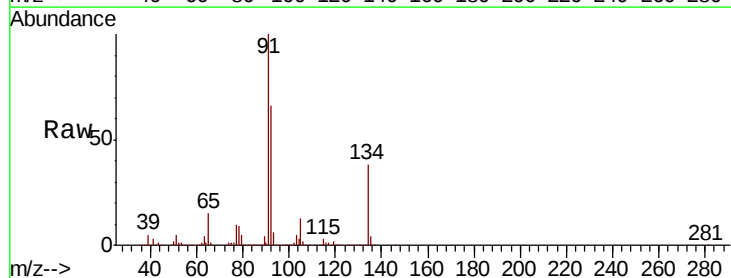
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

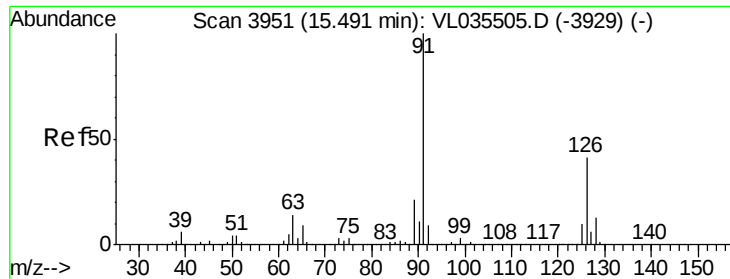
Tot Ion:119 Resp: 9320932
 Ion Ratio Lower Upper
 119 100
 134 33.7 25.0 37.4
 91 30.3 22.3 33.5



#70
 n-Butylbenzene
 Concen: 12.180 ppbv
 RT: 18.59 min Scan# 4916
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Tgt Ion: 91 Resp: 8968729
 Ion Ratio Lower Upper
 91 100
 92 61.8 47.3 70.9
 134 33.5 24.6 37.0

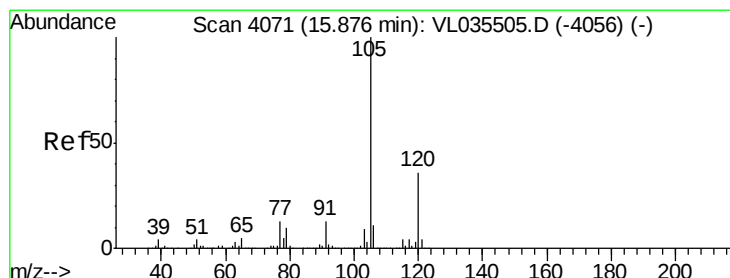
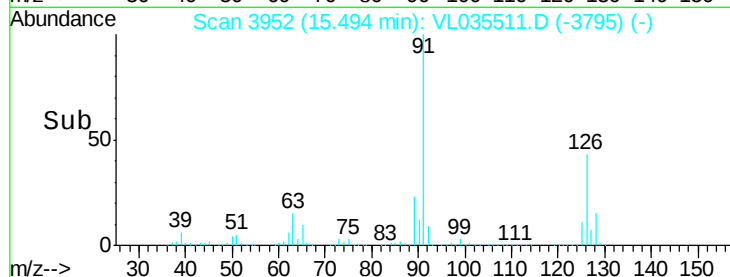
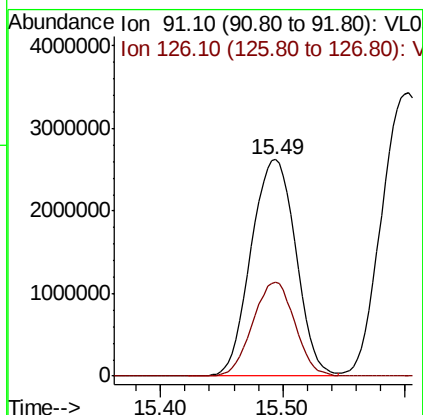
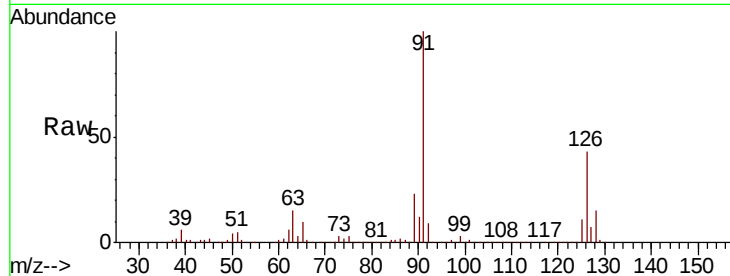




#71
 2-Chlorotoluene
 Concen: 13.271 ppbv
 RT: 15.49 min Scan# 3952
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

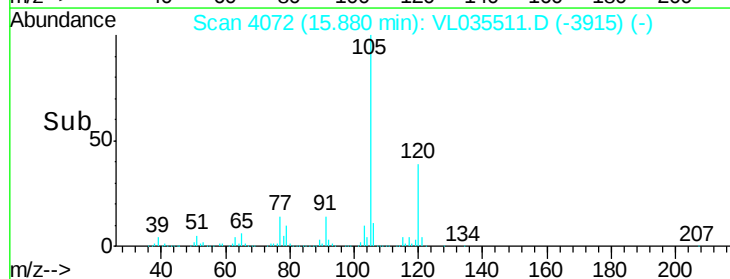
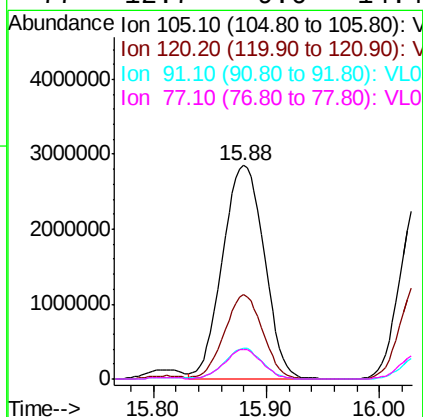
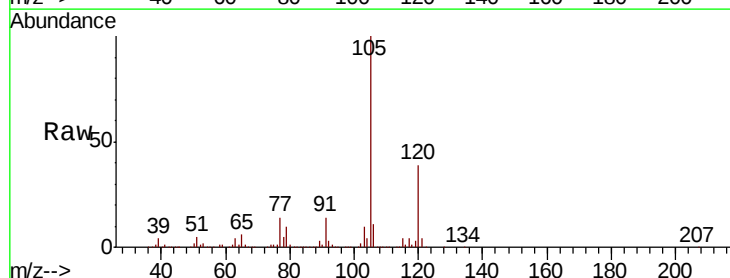
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

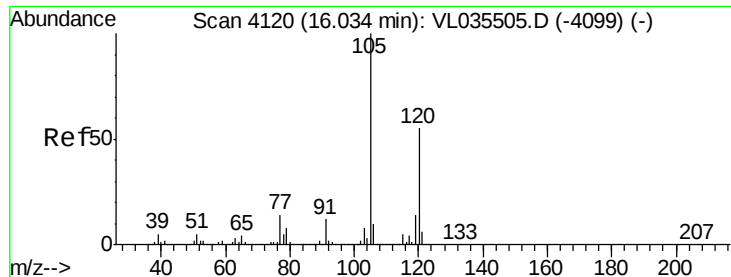
Tot Ion: 91 Resp: 6694159
 Ion Ratio Lower Upper
 91 100
 126 40.9 15.6 62.6



#72
 4-Ethyltoluene
 Concen: 13.290 ppbv
 RT: 15.88 min Scan# 4072
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Tgt Ion:105 Resp: 7308313
 Ion Ratio Lower Upper
 105 100
 120 36.4 27.4 41.2
 91 13.0 9.7 14.5
 77 12.7 9.6 14.4





#73

1,3,5-Trimethylbenzene

Concen: 13.408 ppbv

RT: 16.04 min Scan# 4121

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

MSVOA_L

ClientSampleId :

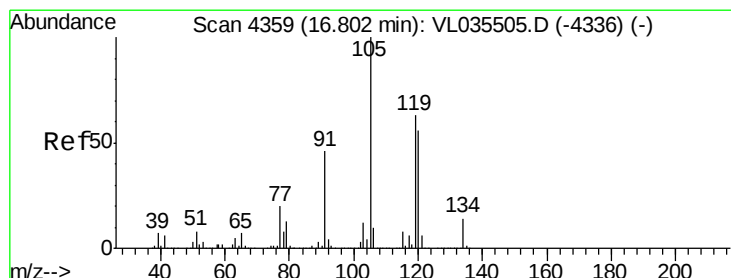
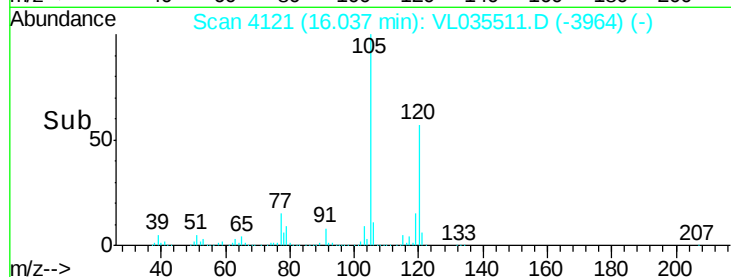
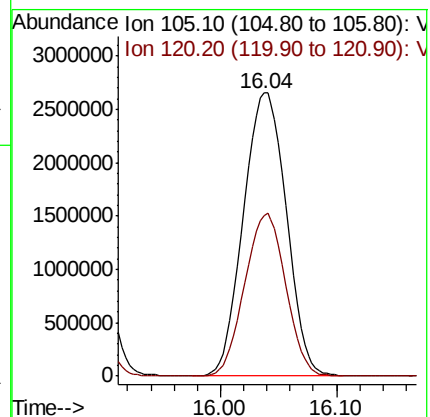
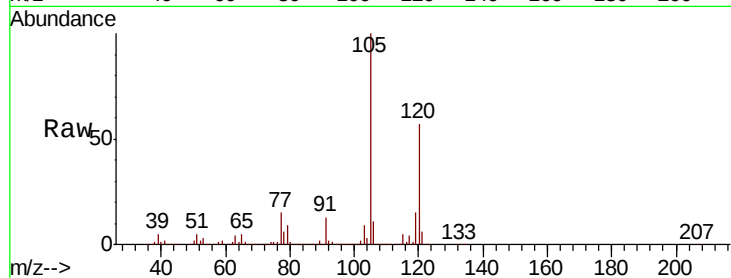
VSTDIC015

Tot Ion:105 Resp: 6819183

Ion Ratio Lower Upper

105 100

120 56.9 44.2 66.2



#74

1,2,4-Trimethylbenzene

Concen: 12.509 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion:105 Resp: 6979636

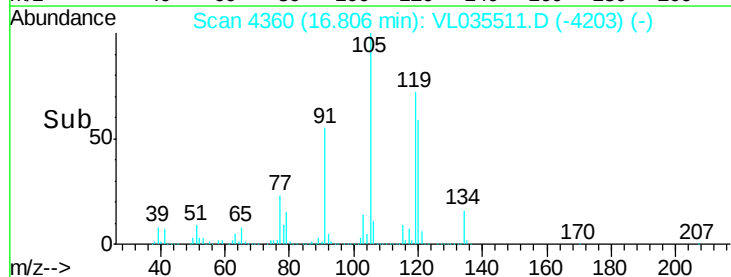
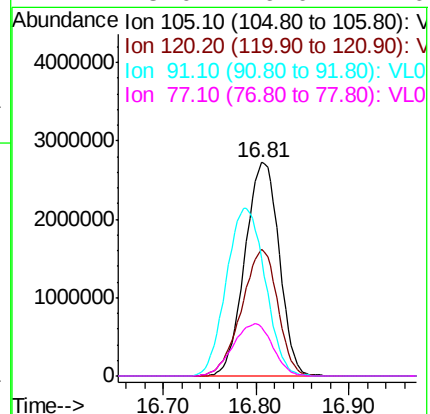
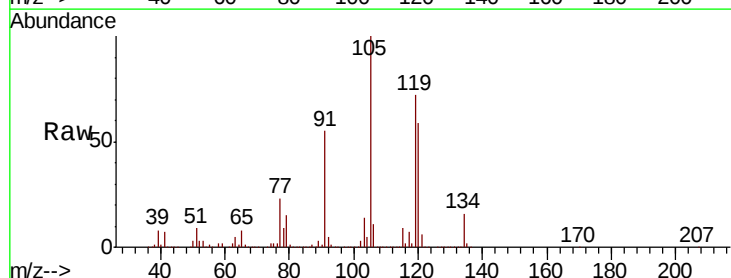
Ion Ratio Lower Upper

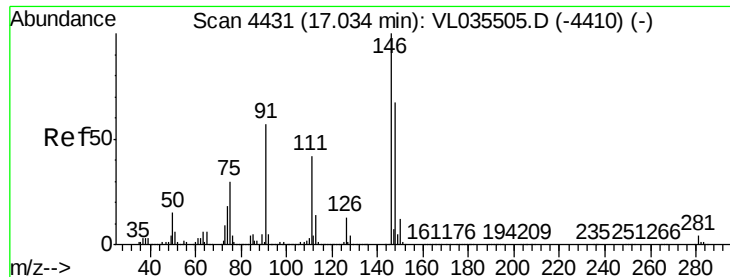
105 100

120 59.0 44.4 66.6

91 55.0 37.1 55.7

77 23.0 16.0 24.0





#75

1,3-Dichlorobenzene

Concen: 12.657 ppbv

RT: 17.04 min Scan# 4433

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

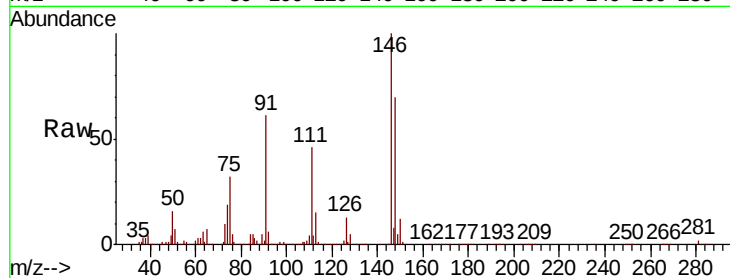
MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 5291266

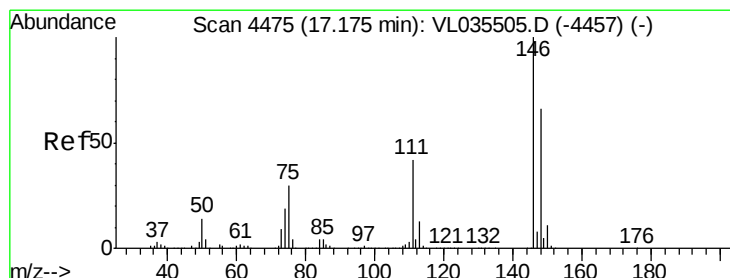
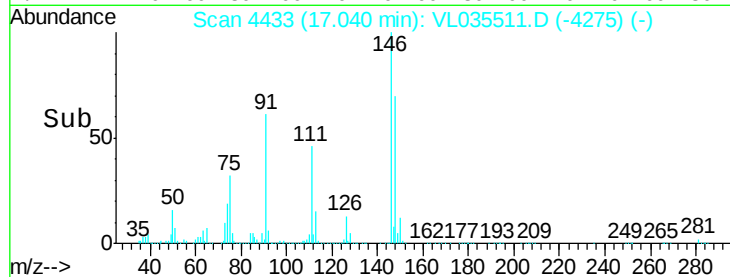
Ion	Ratio	Lower	Upper
146	100		
111	42.8	20.7	62.1
148	67.1	33.0	98.9



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: 12.863 ppbv

RT: 17.18 min Scan# 4477

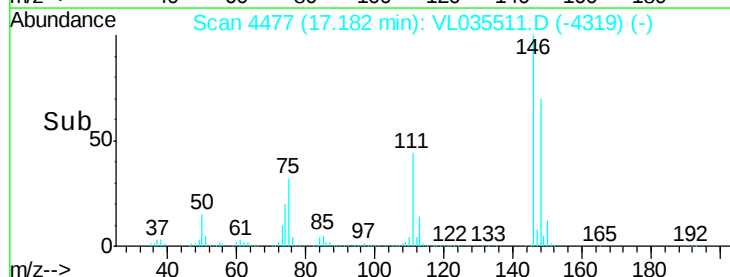
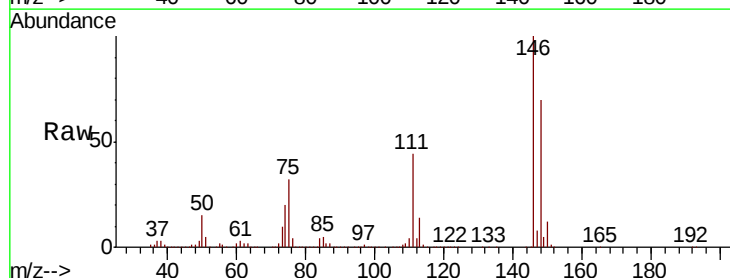
Delta R.T. 0.01 min

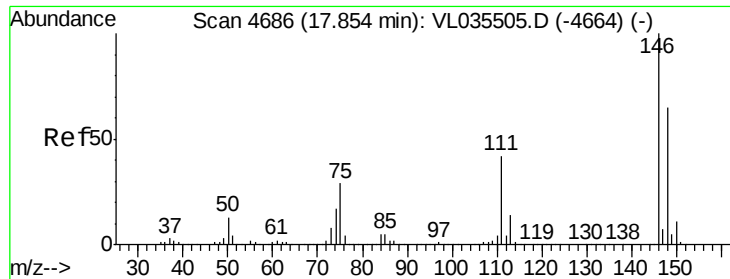
Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion:146 Resp: 5371486

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.0	60.0
148	67.7	33.2	99.6





#77

1,2-Dichlorobenzene

Concen: 12.730 ppbv

RT: 17.86 min Scan# 4688

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

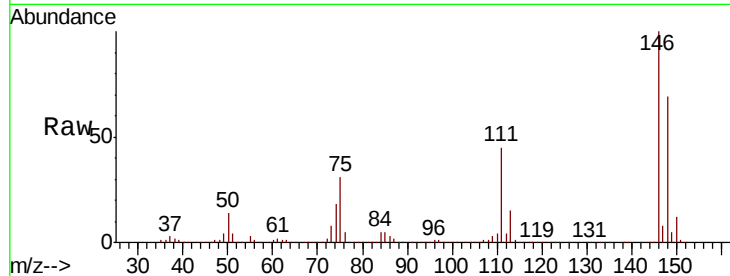
MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 5242320

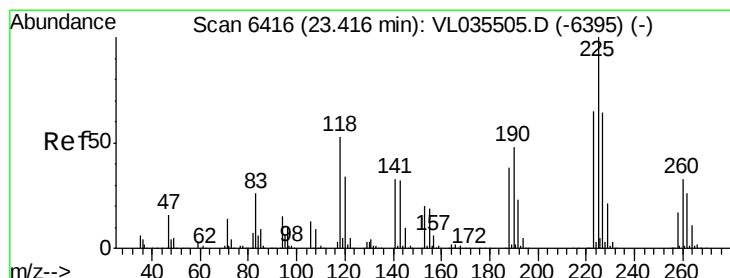
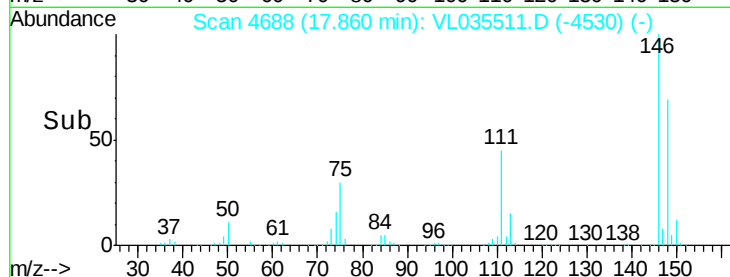
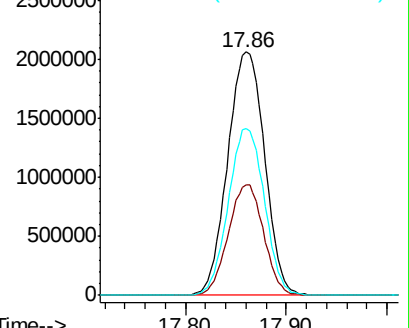
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.1	63.3
148	67.1	32.9	98.7



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: 11.871 ppbv

RT: 23.42 min Scan# 6418

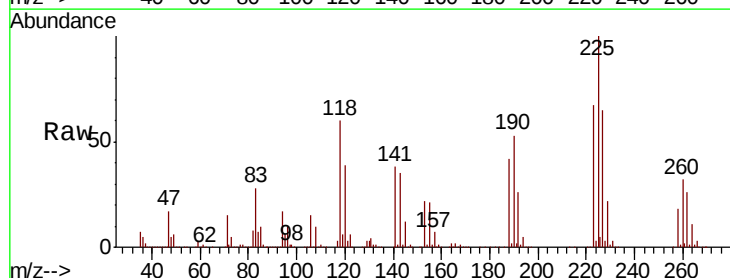
Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion:225 Resp: 3355834

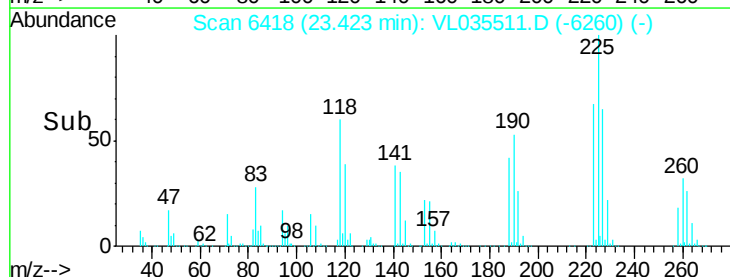
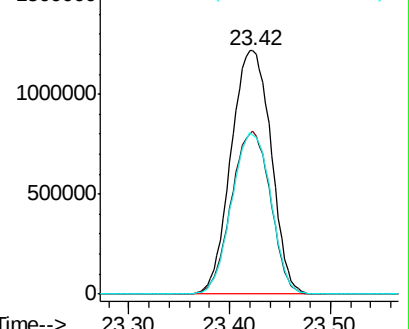
Ion	Ratio	Lower	Upper
225	100		
223	65.3	51.7	77.5
227	64.9	51.5	77.3

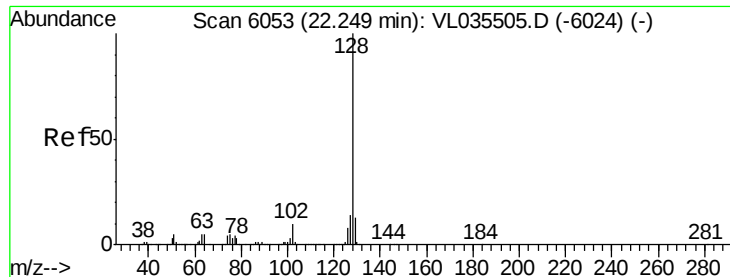


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 12.771 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.01 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Instrument :

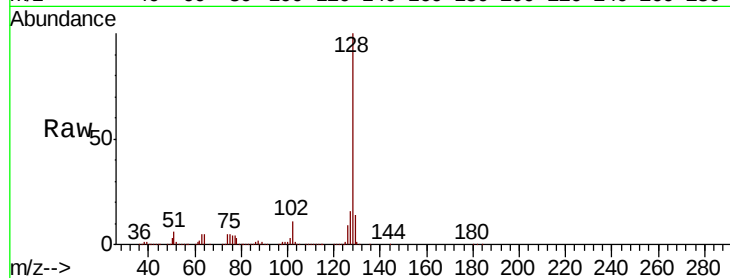
MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:128 Resp: 8867941

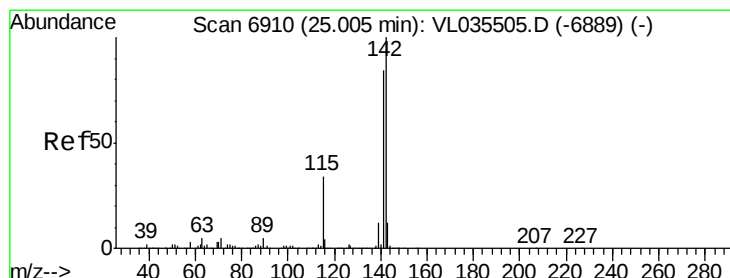
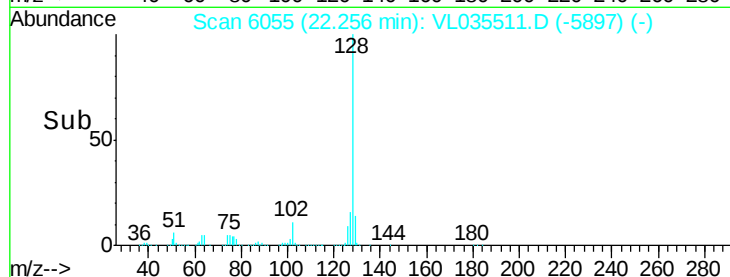
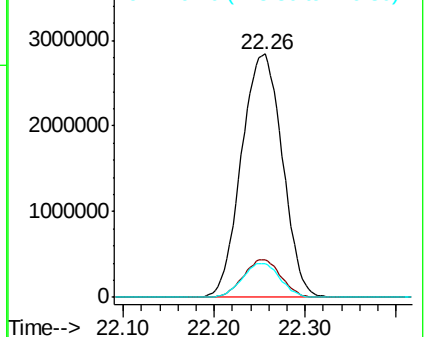
Ion	Ratio	Lower	Upper
128	100		
127	15.5	11.4	17.2
129	13.9	10.5	15.7



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: 14.250 ppbv

RT: 25.01 min Scan# 6911

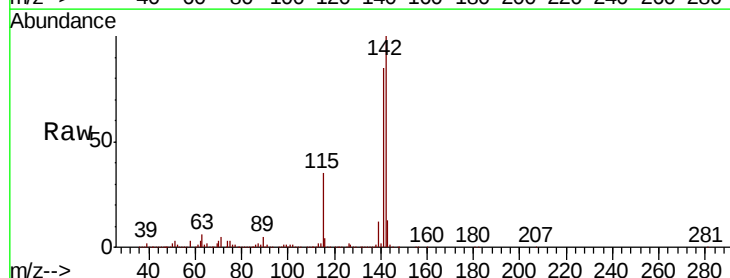
Delta R.T. 0.00 min

Lab File: VL035511.D

Acq: 27 Aug 2020 6:02

Tgt Ion:142 Resp: 3889222

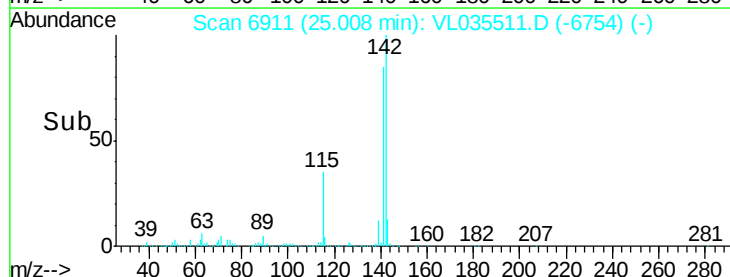
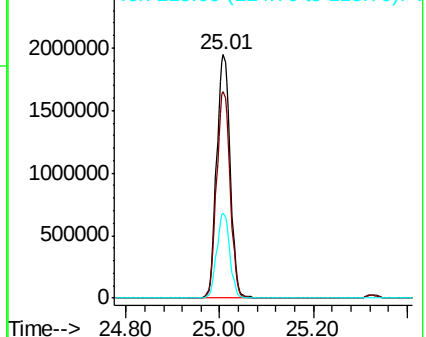
Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.6	101.4
115	33.5	25.8	38.8

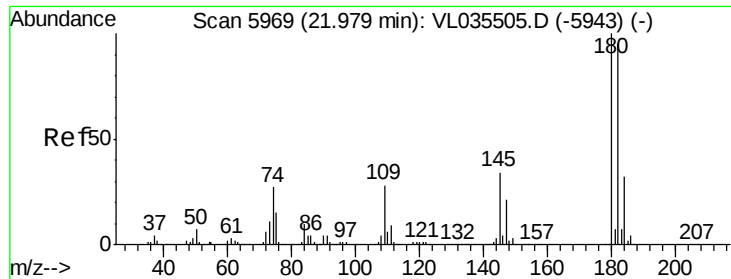


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

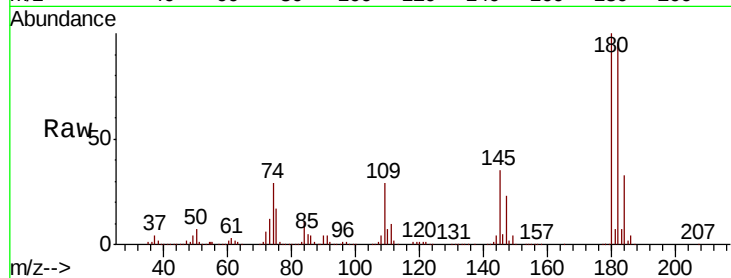




#81
 1,2,4-Trichlorobenzene
 Concen: 12.791 ppbv
 RT: 21.98 min Scan# 5969
 Delta R.T. 0.00 min
 Lab File: VL035511.D
 Acq: 27 Aug 2020 6:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:180 Resp: 5222376
 Ion Ratio Lower Upper
 180 100
 182 95.7 76.3 114.5
 184 32.4 25.3 37.9



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

