

Data File : VL034513.D
Acq On : 30 Dec 2019 12:58
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Dec 30 14:25:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:19:57 2019
QLast Update : Mon Dec 30 14:19:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1059157	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2108299	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	2047190	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1748747	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.16	85	18995	0.099	ppbv	88
3) Chlorodifluoromethane	2.95	51	16237	0.123	ppbv #	89
4) Chloromethane	3.11	50	8381	0.108	ppbv #	81
5) Vinyl Chloride	3.23	62	5073	0.069	ppbv	99
7) Chloroethane	3.53	64	2110	0.080	ppbv #	64
8) Dichlorotetrafluoroethane	3.16	85	18995	0.110	ppbv	97
11) Trichlorofluoromethane	3.93	101	10138	0.053	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.47	101	7764	0.061	ppbv #	25
13) Ethanol	3.59	45	749	0.046	ppbv #	38
14) Bromoethene	3.72	108	5241	0.102	ppbv	89
15) Acetone	3.85	43	32062	0.211	ppbv #	90
16) 1,3-Butadiene	3.30	39	3770	0.057	ppbv #	34
18) 1,1-Dichloroethene	4.28	96	4937	0.089	ppbv	87
19) Isopropyl Alcohol	3.97	45	5877	0.060	ppbv #	95
20) Methylene Chloride	4.33	84	9471	0.176	ppbv #	80
21) Allyl Chloride	4.40	41	8954	0.099	ppbv #	84
22) trans-1,2-Dichloroethene	4.88	96	2903	0.052	ppbv #	75
23) Vinyl Acetate	5.07	43	6248	0.032	ppbv #	87
24) 1,1-Dichloroethane	5.01	63	13373	0.088	ppbv	97
25) Ethyl Acetate	5.69	43	23318	0.086	ppbv	96
26) Hexane	5.69	57	8783	0.076	ppbv #	75
27) Carbon Disulfide	4.54	76	6267	0.049	ppbv #	19
28) Methyl tert-Butyl Ether	5.04	73	6280	0.033	ppbv #	53
29) Chloroform	5.75	83	10995	0.058	ppbv	89
32) 1,1,1-Trichloroethane	6.52	97	13191	0.075	ppbv #	63
35) Carbon Tetrachloride	7.04	117	8924	0.049	ppbv #	57
36) Benzene	6.90	78	7183	0.034	ppbv #	71
37) 1,2-Dichloroethane	6.32	62	5374	0.034	ppbv #	71
39) 1,2-Dichloropropane	7.19	63	620029	7.636	ppbv #	21
42) Bromodichloromethane	7.82	83	6651	0.034	ppbv #	65
44) 2,2,4-Trimethylpentane	7.89	57	16174	0.042	ppbv #	42
47) 1,1,2-Trichloroethane	9.51	97	4213	0.047	ppbv #	72
48) Dibromochloromethane	10.34	129	7881	0.051	ppbv	65
49) Bromoform	13.09	173	5588	0.040	ppbv #	40
52) Tetrachloroethene	11.26	164	4989	0.055	ppbv #	40
54) 1,2-Dibromoethane	10.65	107	5679	0.041	ppbv	90
56) 1,1,1,2-Tetrachloroethane	12.17	131	4121	0.041	ppbv #	1
57) Chlorobenzene	12.19	112	6396	0.035	ppbv #	52
62) Isopropylbenzene	14.71	105	11879	0.033	ppbv #	55
64) n-propylbenzene	15.62	120	2956	0.032	ppbv #	1
75) 1,3-Dichlorobenzene	17.05	146	7483	0.040	ppbv #	21

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL123019\
Quantitation Report (Not Reviewed)

Data File : VL034513.D
Acq On : 30 Dec 2019 12:58
Operator : SY/AP
Sample : VSTDIC0.1
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Dec 30 14:25:15 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:19:57 2019
QLast Update : Mon Dec 30 14:19:57 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Hexachloro-1,3-Butadiene	23.44	225	8331	0.054	ppbv	# 18

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

Data File : VL034513.D

Acq On : 30 Dec 2019 12:58

Operator : SY/AP

Sample : VSTDICC0.1

Misc : 400ml/MSVOA L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

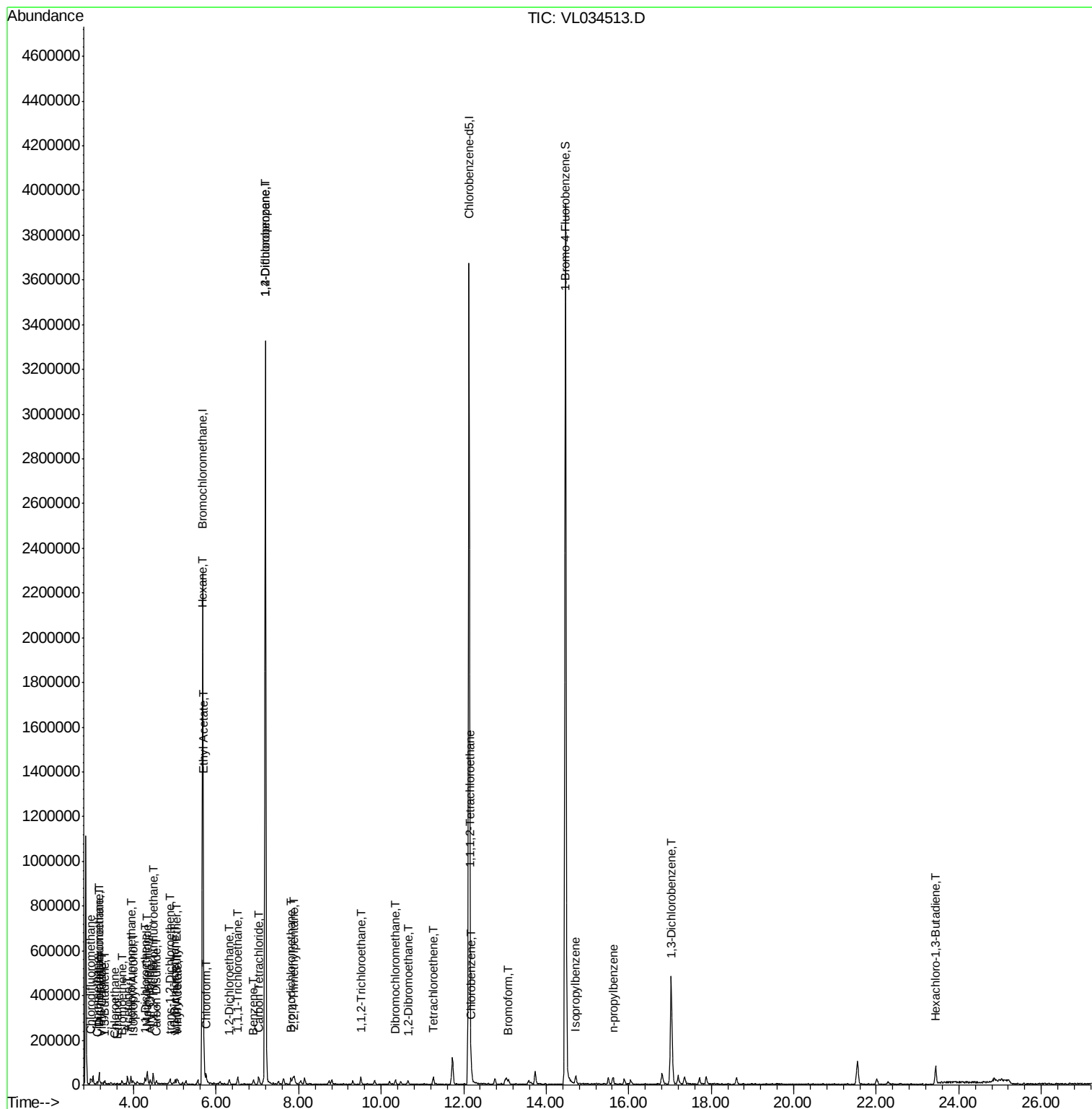
Quant Time: Dec 30 14:25:15 2019

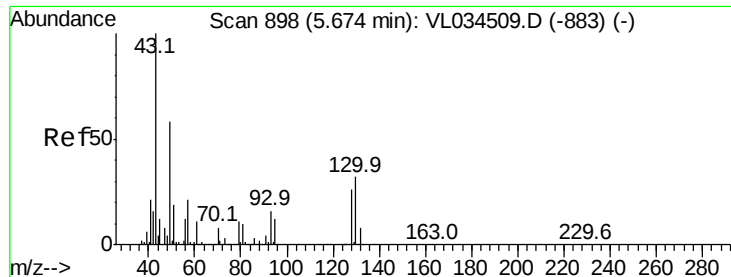
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_L\METHODS\VL123019AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Dec 30 14:19:57 2019

QLast Update : Mon Dec 30 14:19:57 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

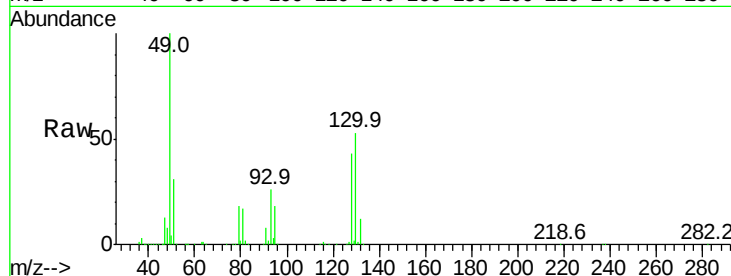
Tgt Ion: 49 Resp: 1059157

Ion Ratio Lower Upper

49 100

128 44.7 22.4 67.2

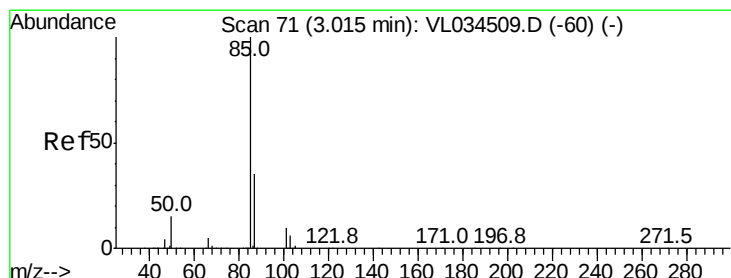
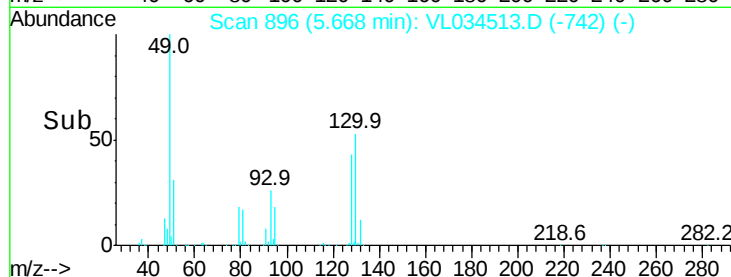
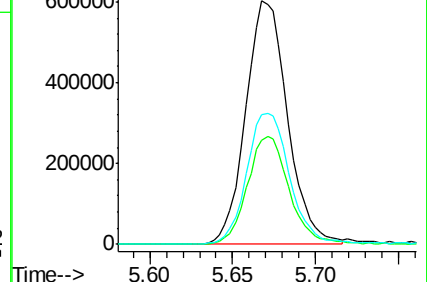
130 56.7 28.3 85.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.099 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.14 min

Lab File: VL034513.D

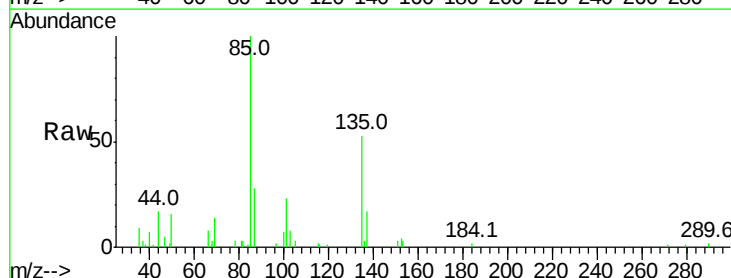
Acq: 30 Dec 2019 12:58

Tgt Ion: 85 Resp: 18995

Ion Ratio Lower Upper

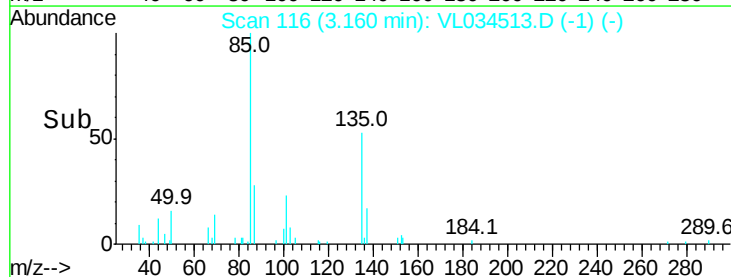
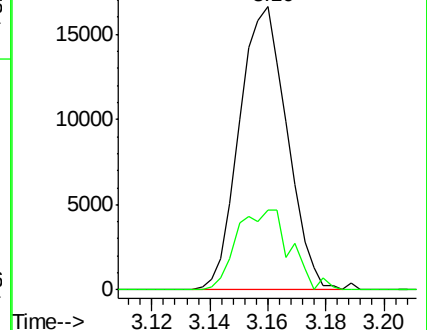
85 100

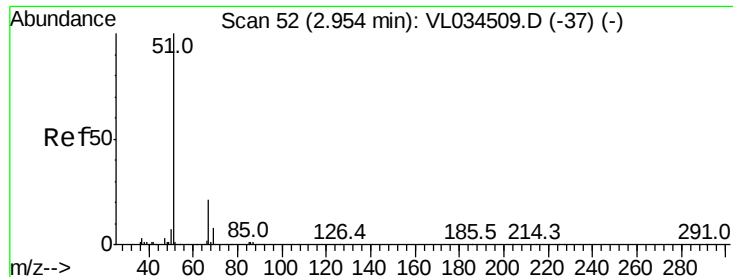
87 28.1 27.9 41.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.123 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

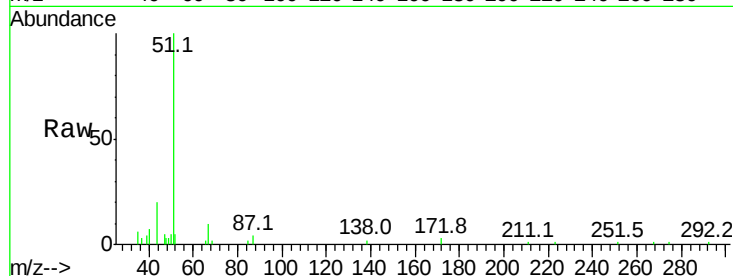
VSTDIC0.1

Tgt Ion: 51 Resp: 16237

Ion Ratio Lower Upper

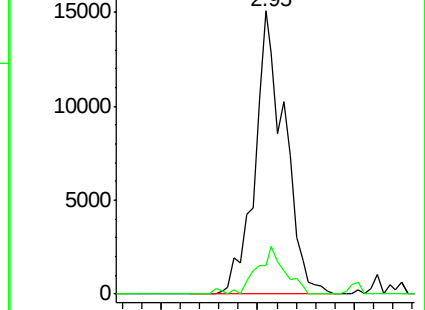
51 100

67 15.9 16.8 25.2#

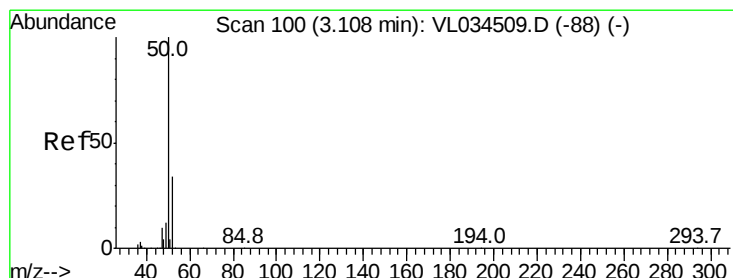
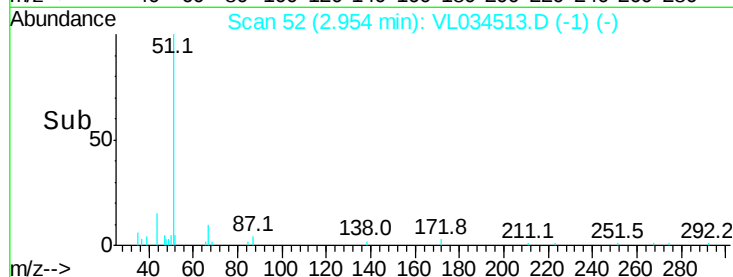


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.108 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.00 min

Lab File: VL034513.D

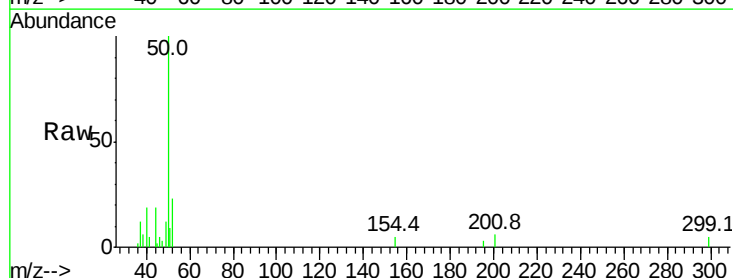
Acq: 30 Dec 2019 12:58

Tgt Ion: 50 Resp: 8381

Ion Ratio Lower Upper

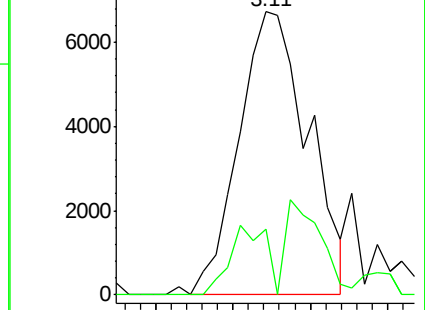
50 100

52 23.4 27.6 41.4#

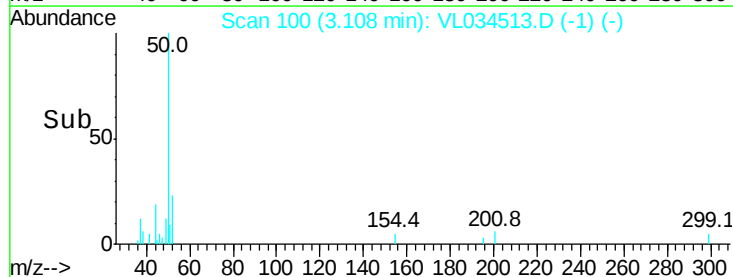


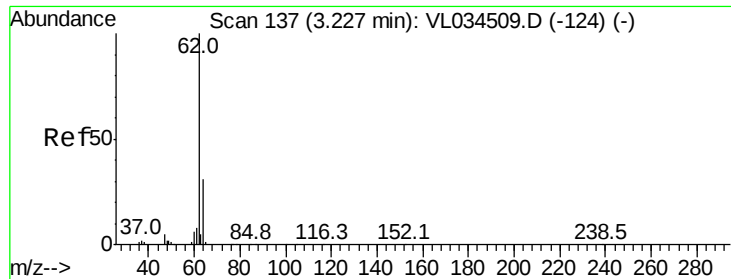
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 0.069 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

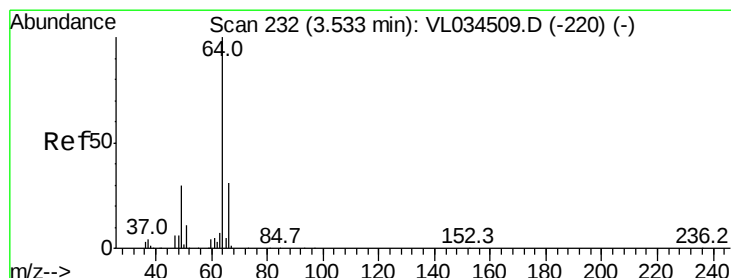
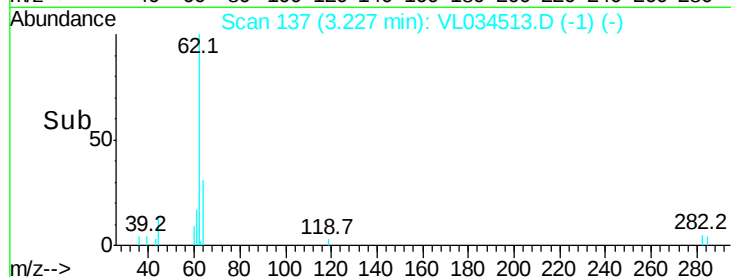
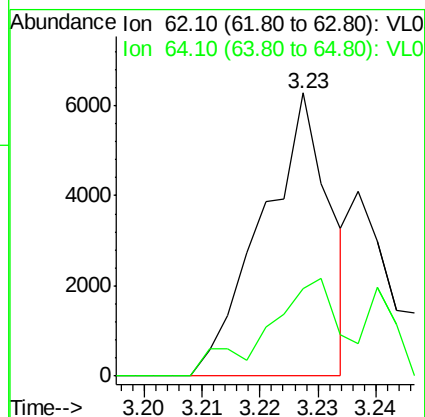
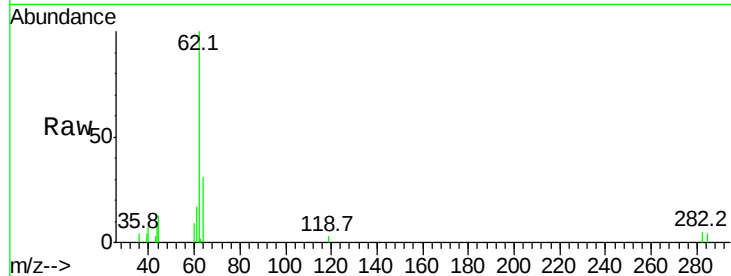
VSTDIC0.1

Tgt Ion: 62 Resp: 5073

Ion Ratio Lower Upper

62 100

64 30.4 24.9 37.3



#7

Chloroethane

Concen: 0.080 ppbv

RT: 3.53 min Scan# 232

Delta R.T. 0.00 min

Lab File: VL034513.D

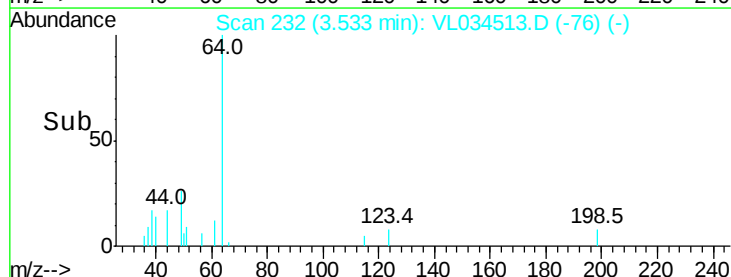
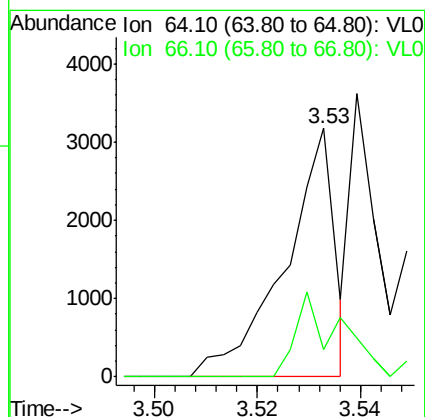
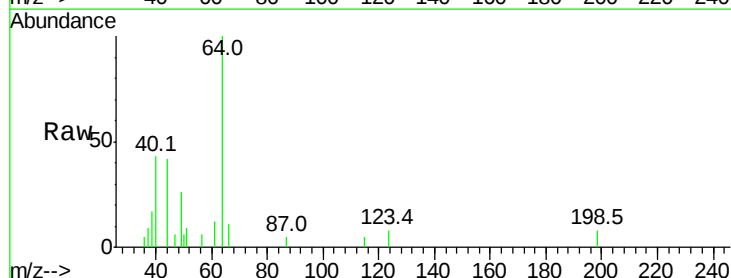
Acq: 30 Dec 2019 12:58

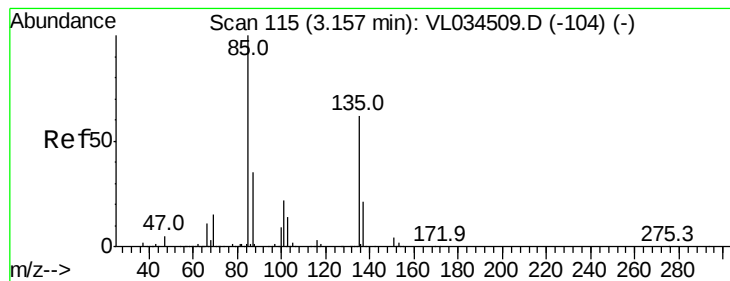
Tgt Ion: 64 Resp: 2110

Ion Ratio Lower Upper

64 100

66 11.2 25.0 37.4#





#8

Dichlorotetrafluoroethane

Concen: 0.110 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

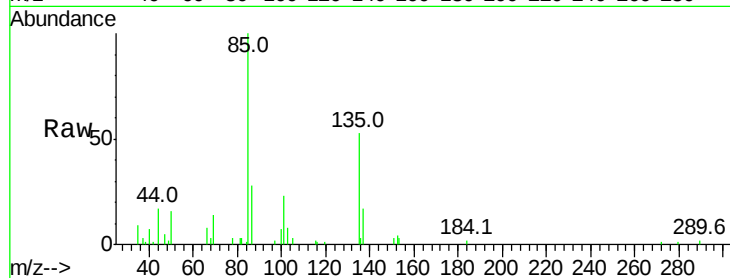
VSTDIC0.1

Tgt Ion: 85 Resp: 18995

Ion Ratio Lower Upper

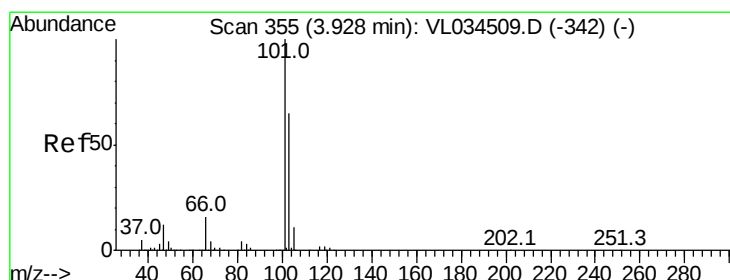
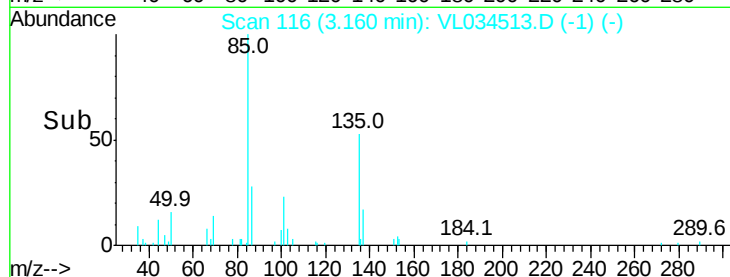
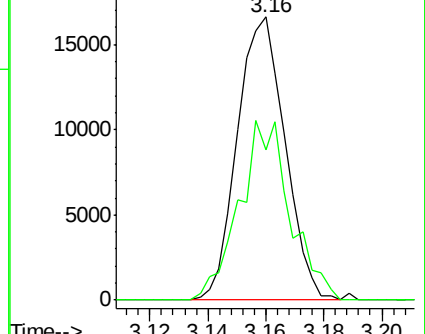
85 100

135 67.4 51.8 77.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#11

Trichlorofluoromethane

Concen: 0.053 ppbv

RT: 3.93 min Scan# 354

Delta R.T. -0.00 min

Lab File: VL034513.D

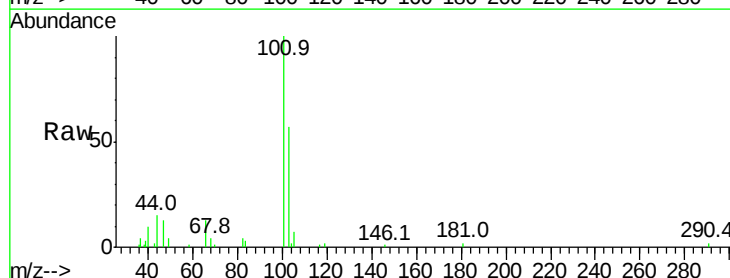
Acq: 30 Dec 2019 12:58

Tgt Ion: 101 Resp: 10138

Ion Ratio Lower Upper

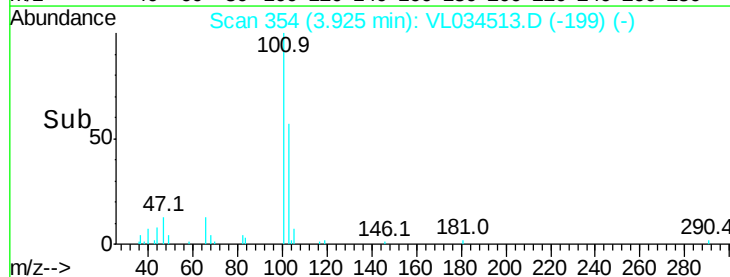
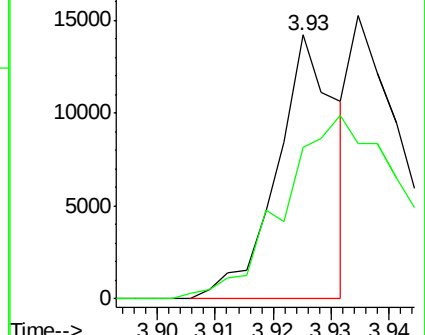
101 100

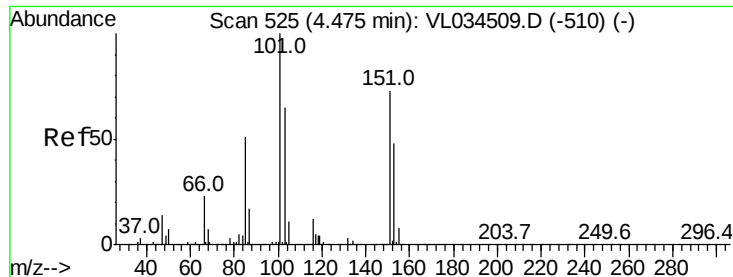
103 55.3 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.061 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

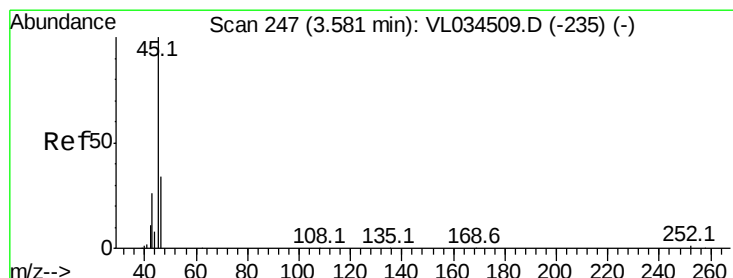
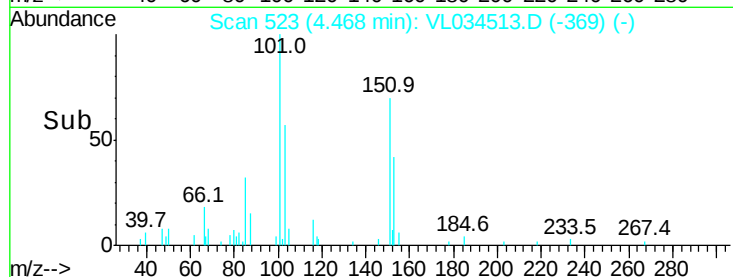
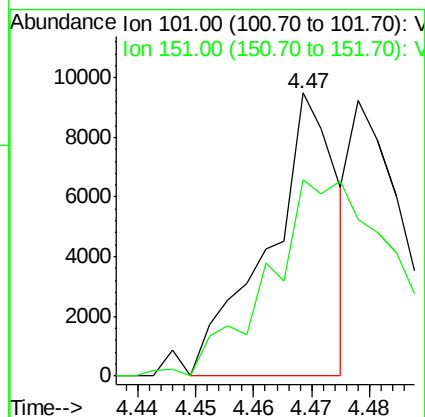
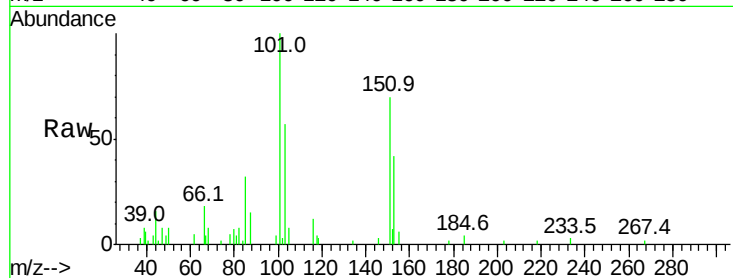
VSTDIC0.1

Tgt Ion:101 Resp: 7764

Ion Ratio Lower Upper

101 100

151 134.4 57.8 86.6#



#13

Ethanol

Concen: 0.046 ppbv

RT: 3.59 min Scan# 249

Delta R.T. 0.01 min

Lab File: VL034513.D

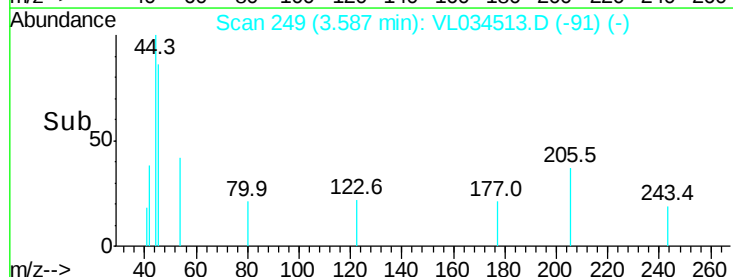
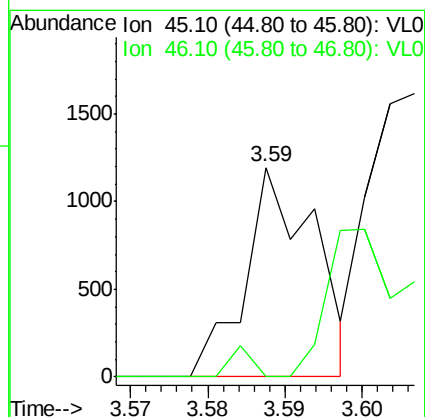
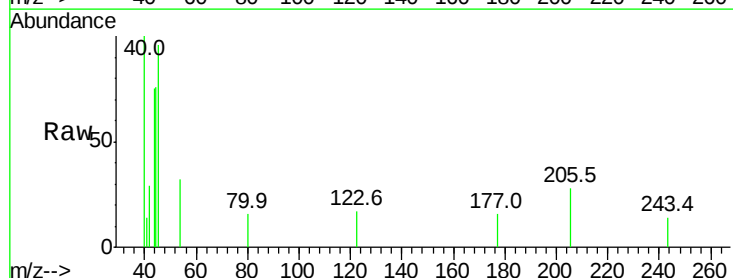
Acq: 30 Dec 2019 12:58

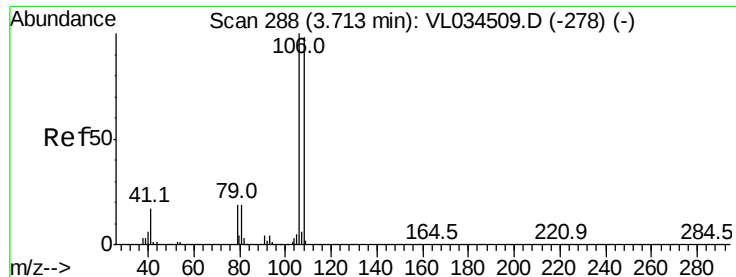
Tgt Ion: 45 Resp: 749

Ion Ratio Lower Upper

45 100

46 0.0 14.9 59.7#





#14

Bromoethene

Concen: 0.102 ppbv

RT: 3.72 min Scan# 289

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

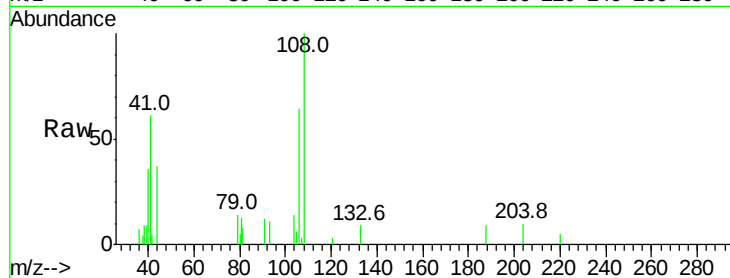
Tgt Ion:108 Resp: 5241

Ion Ratio Lower Upper

108 100

106 93.0 85.2 127.8

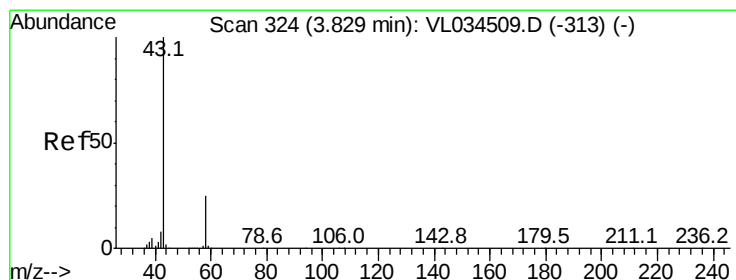
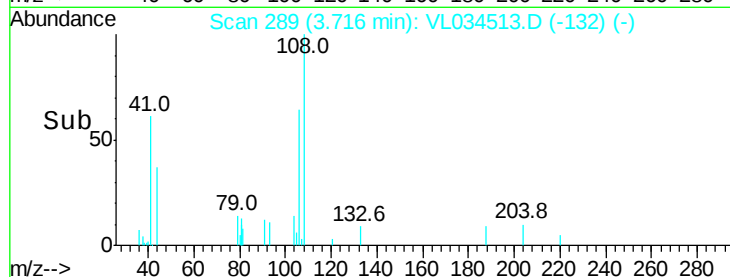
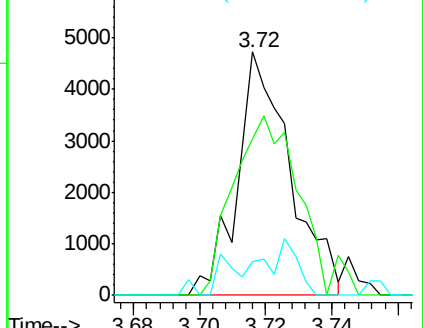
79 21.5 17.4 26.2



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): V



#15

Acetone

Concen: 0.211 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.02 min

Lab File: VL034513.D

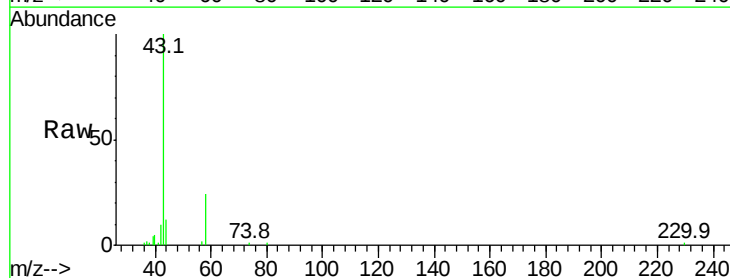
Acq: 30 Dec 2019 12:58

Tgt Ion: 43 Resp: 32062

Ion Ratio Lower Upper

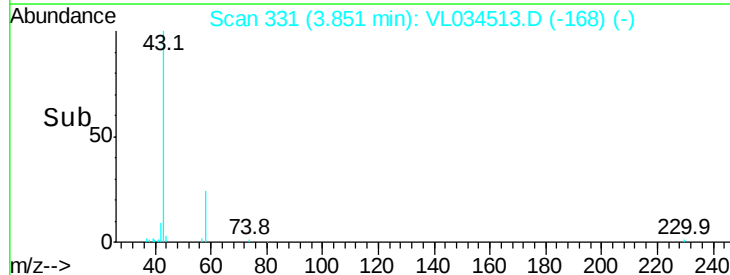
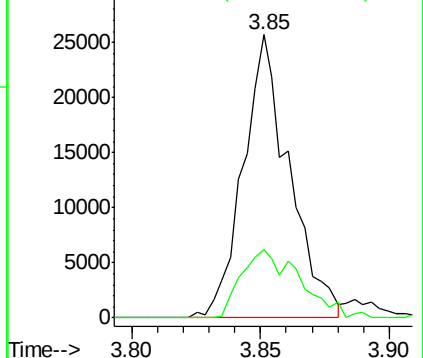
43 100

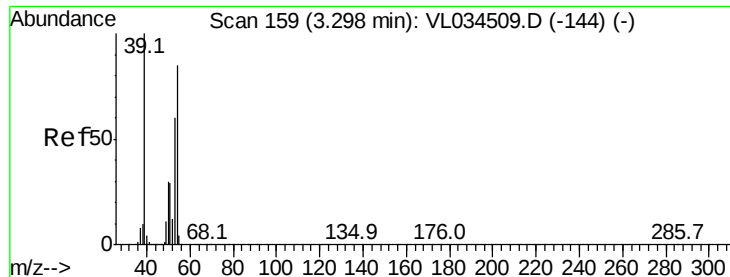
58 30.7 20.4 30.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#16

1,3-Butadiene

Concen: 0.057 ppbv

RT: 3.30 min Scan# 159

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

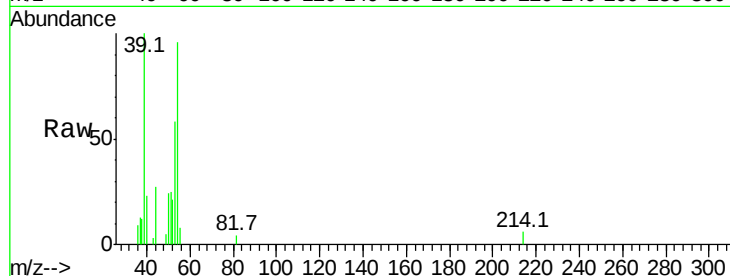
VSTDIC0.1

Tgt Ion: 39 Resp: 3770

Ion Ratio Lower Upper

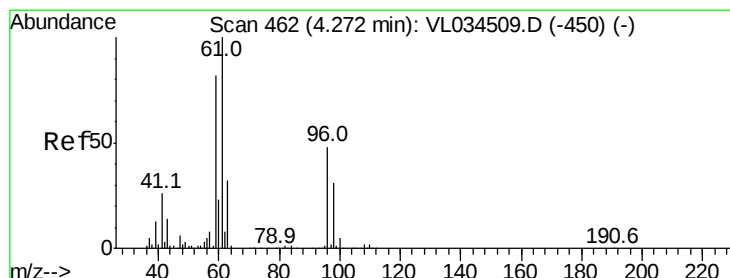
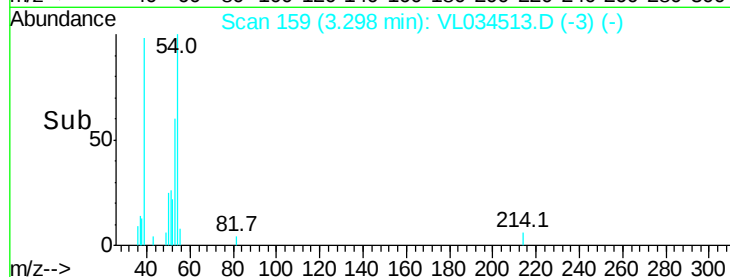
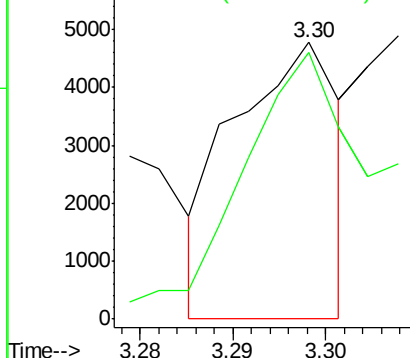
39 100

54 142.3 66.2 99.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0



#18

1,1-Dichloroethene

Concen: 0.089 ppbv

RT: 4.28 min Scan# 464

Delta R.T. 0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

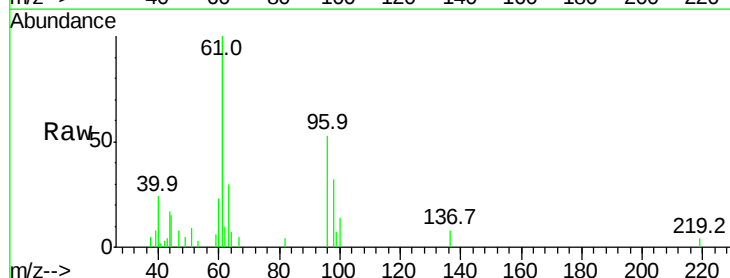
Tgt Ion: 96 Resp: 4937

Ion Ratio Lower Upper

96 100

61 184.8 165.9 248.9

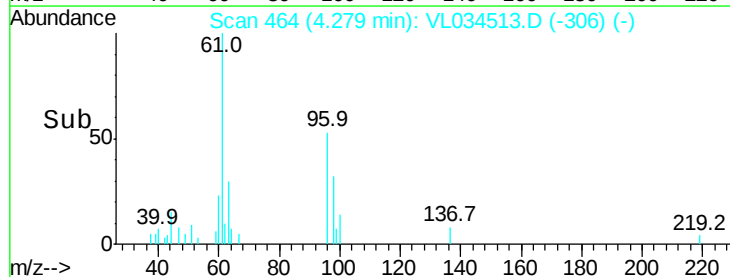
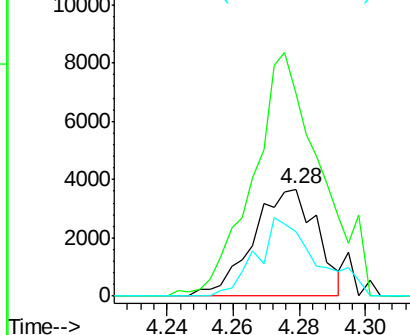
98 60.1 51.9 77.9

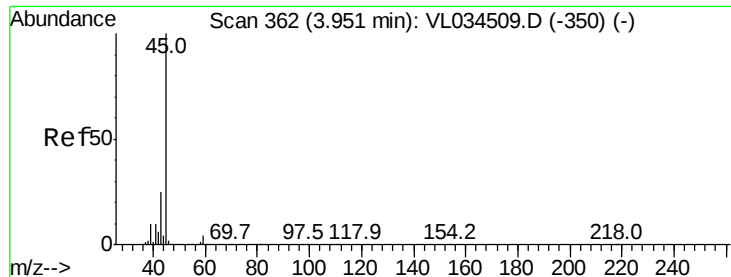


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.060 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

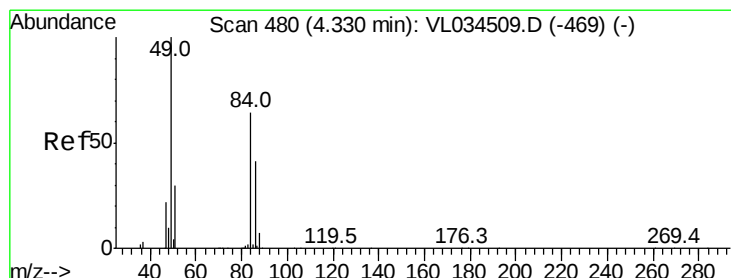
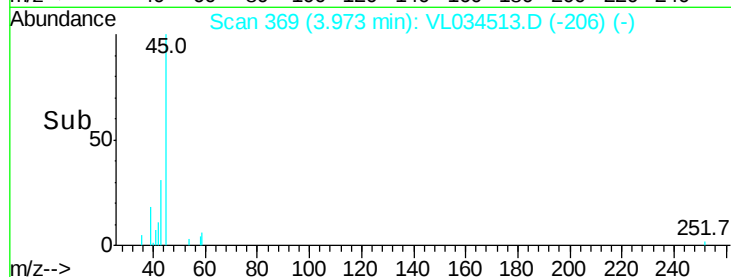
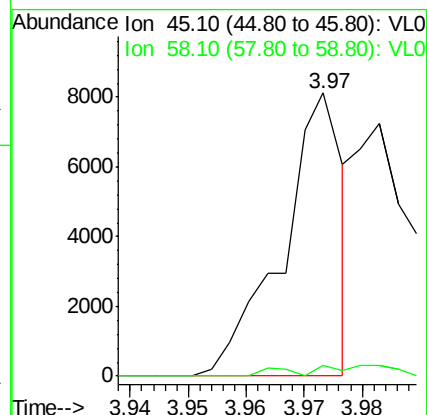
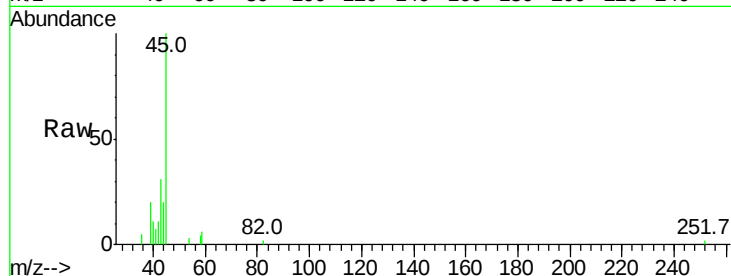
VSTDIC0.1

Tgt Ion: 45 Resp: 5877

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#



#20

Methylene Chloride

Concen: 0.176 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Tgt Ion: 84 Resp: 9471

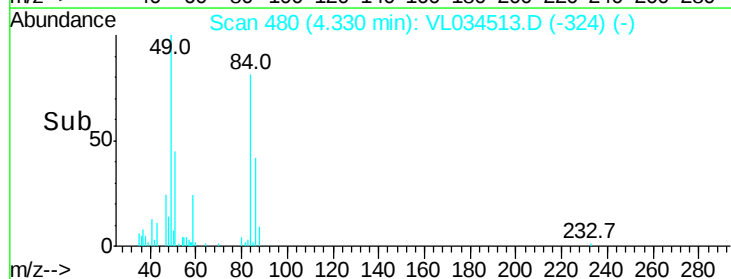
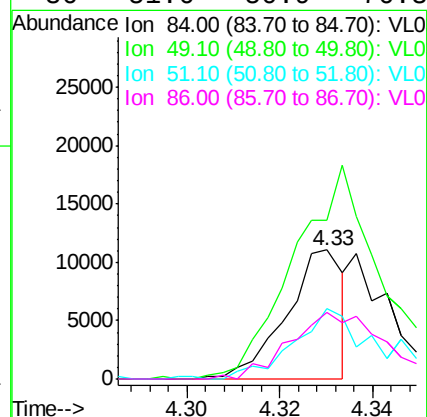
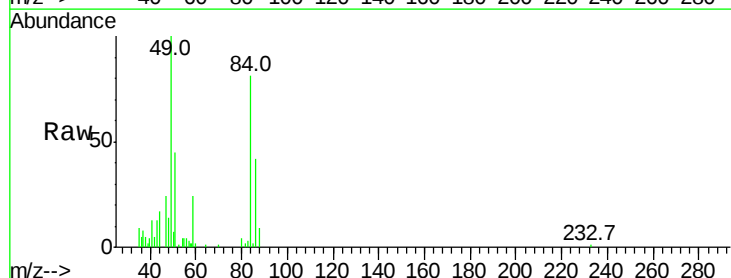
Ion Ratio Lower Upper

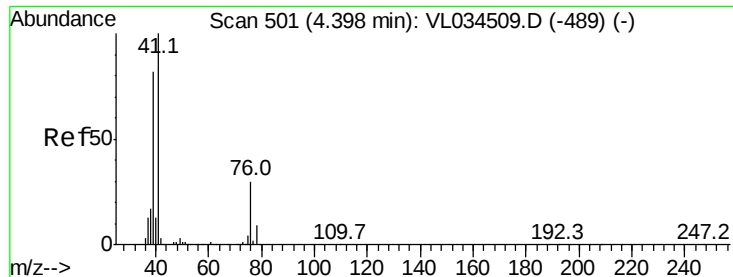
84 100

49 123.0 124.4 186.6#

51 53.0 37.0 55.6

86 51.6 50.9 76.3





#21

Allyl Chloride

Concen: 0.099 ppbv

RT: 4.40 min Scan# 502

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

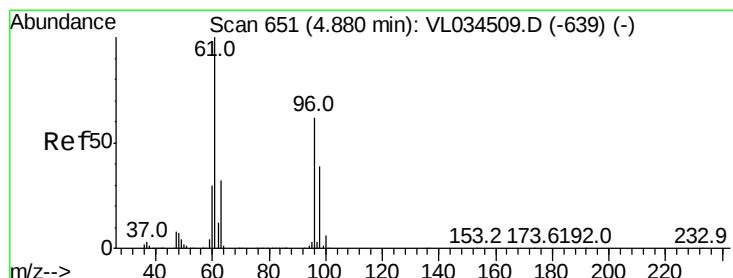
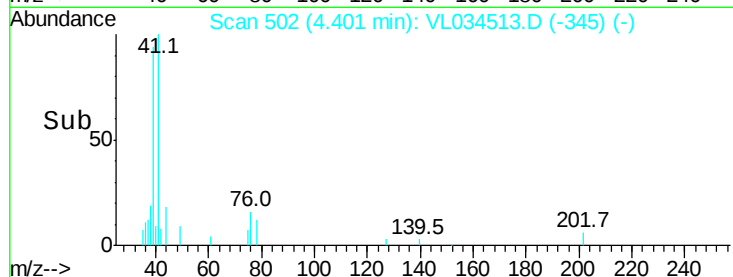
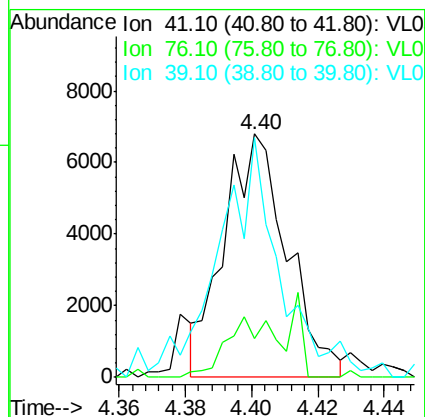
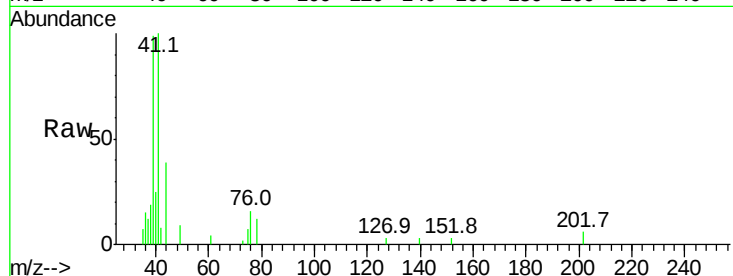
Tgt Ion: 41 Resp: 8954

Ion Ratio Lower Upper

41 100

76 25.5 24.2 36.4

39 98.9 65.8 98.6#



#22

trans-1,2-Dichloroethene

Concen: 0.052 ppbv

RT: 4.88 min Scan# 650

Delta R.T. -0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

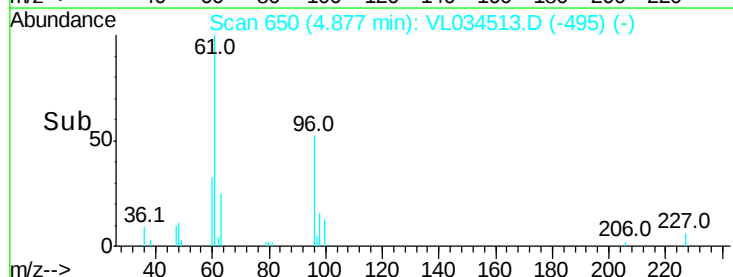
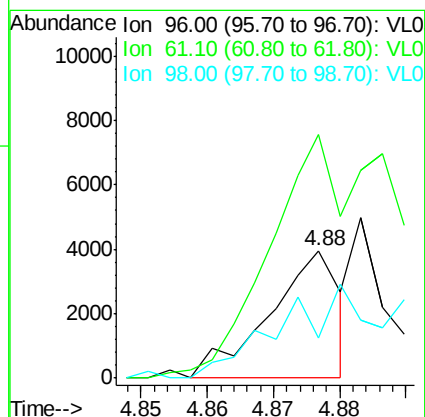
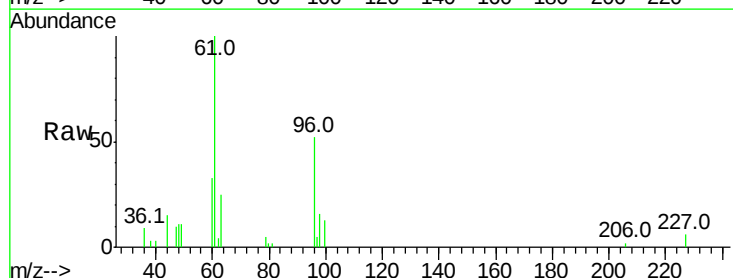
Tgt Ion: 96 Resp: 2903

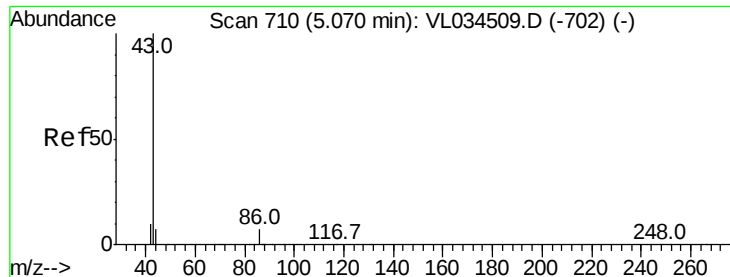
Ion Ratio Lower Upper

96 100

61 184.5 128.4 192.6

98 31.3 50.6 75.8#





#23

Vinyl Acetate

Concen: 0.032 ppbv

RT: 5.07 min Scan# 711

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 6248

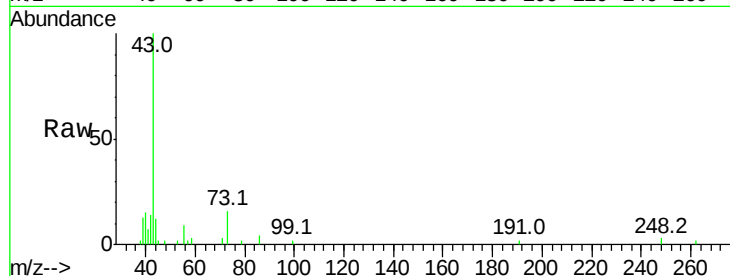
Ion Ratio Lower Upper

43 100

86 0.0 5.4 8.2#

42 10.9 8.9 13.3

44 15.5 5.0 7.4#

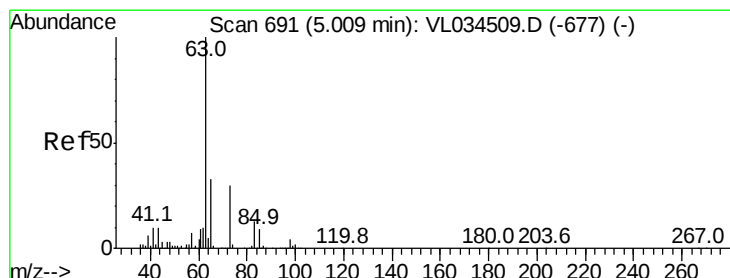
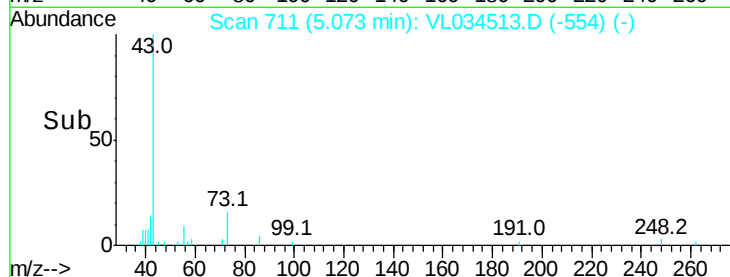
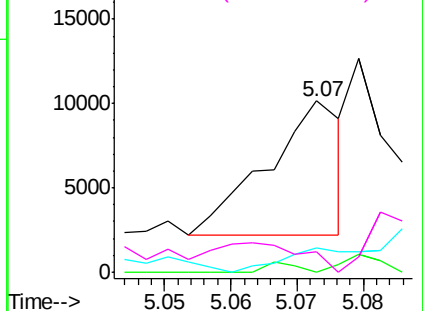


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.088 ppbv

RT: 5.01 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

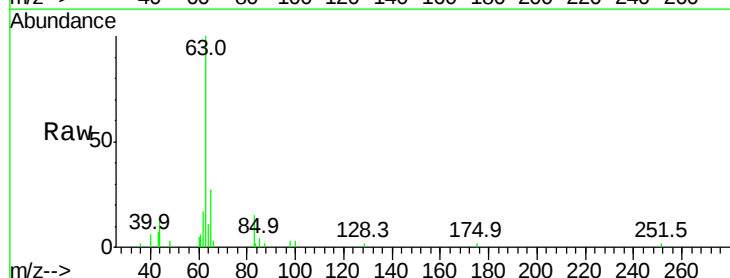
Tgt Ion: 63 Resp: 13373

Ion Ratio Lower Upper

63 100

98 3.1 2.1 6.3

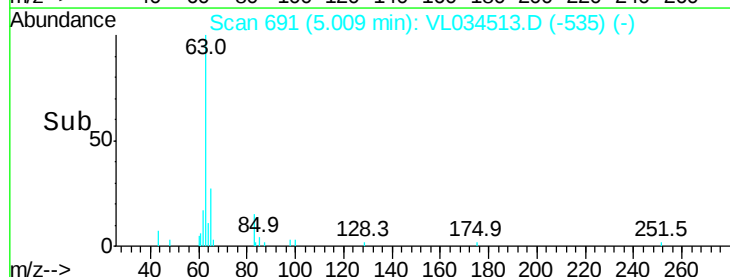
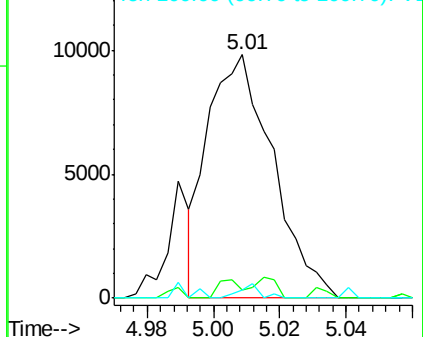
100 3.2 1.1 3.3

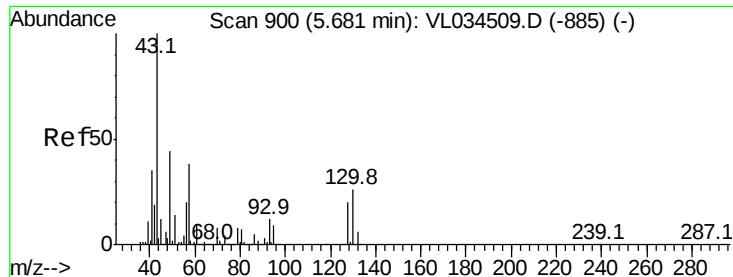


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.086 ppbv

RT: 5.69 min Scan# 904

Delta R.T. 0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion: 43 Resp: 23318

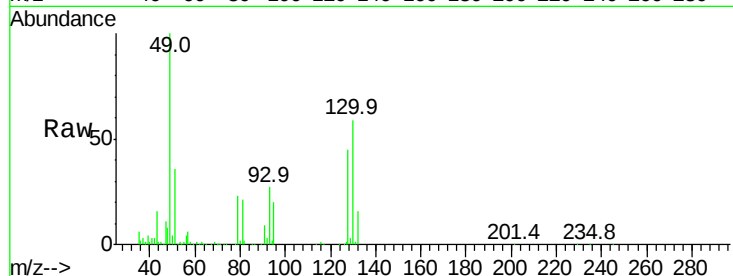
Ion Ratio Lower Upper

43 100

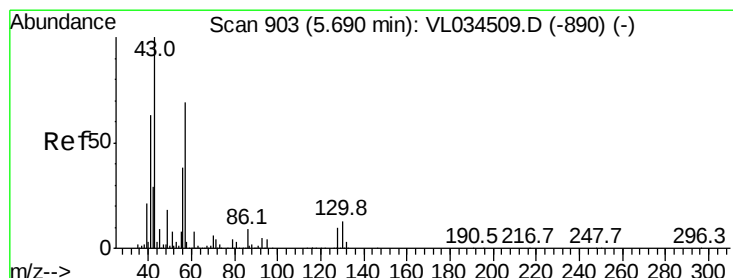
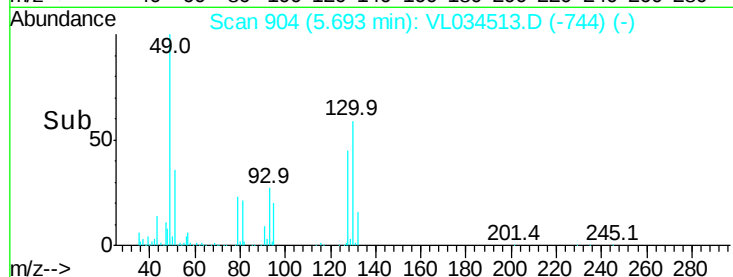
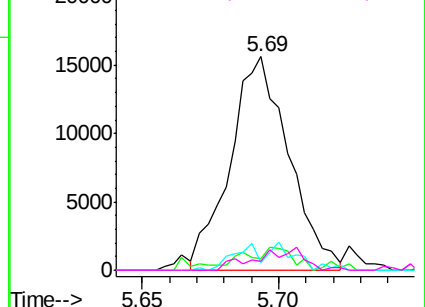
45 11.9 8.3 12.5

61 11.5 7.8 11.6

70 8.5 5.8 8.8



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: 0.076 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Tgt Ion: 57 Resp: 8783

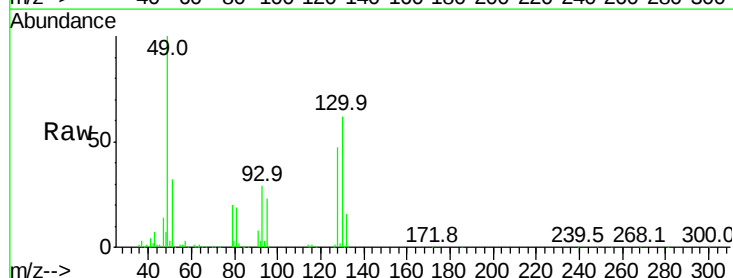
Ion Ratio Lower Upper

57 100

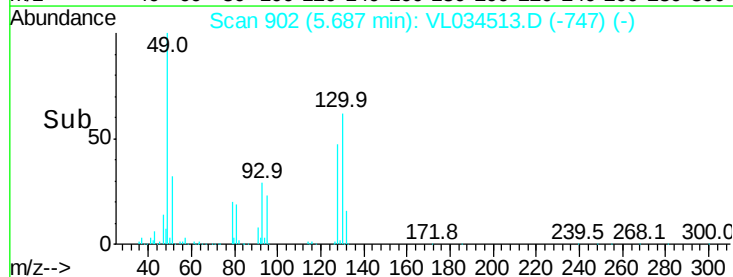
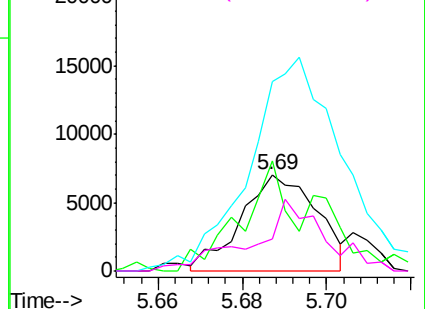
41 118.6 75.3 112.9#

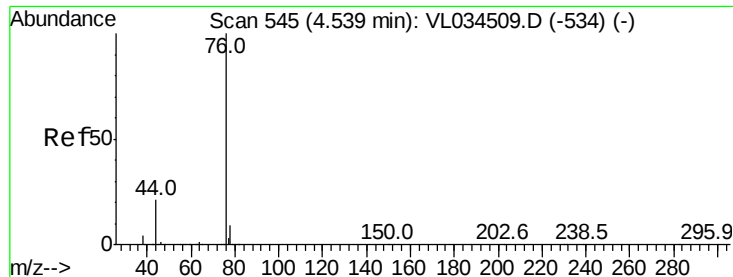
43 280.3 189.4 284.2

56 69.6 42.8 64.2#



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: 0.049 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

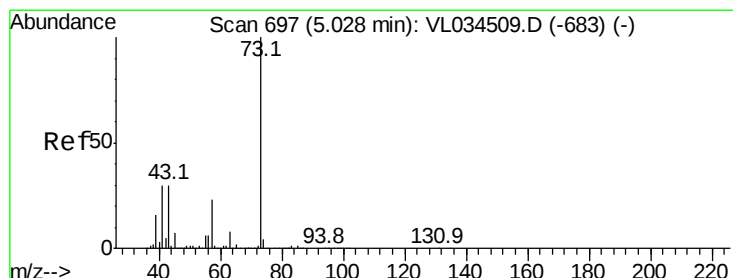
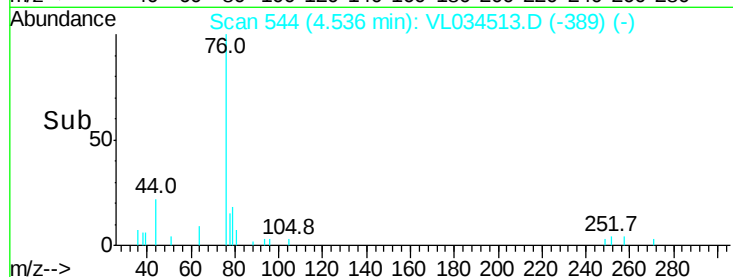
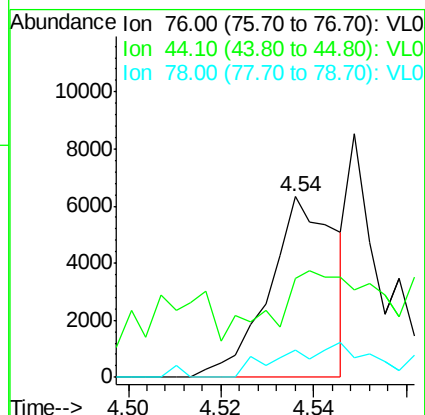
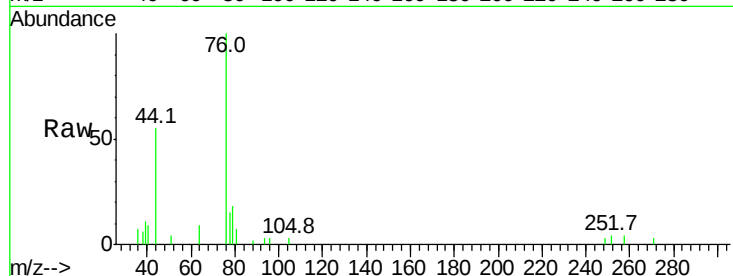
Tgt Ion: 76 Resp: 6267

Ion Ratio Lower Upper

76 100

44 70.3 16.6 25.0#

78 0.0 7.4 11.0#



#28

Methyl tert-Butyl Ether

Concen: 0.033 ppbv

RT: 5.04 min Scan# 702

Delta R.T. 0.02 min

Lab File: VL034513.D

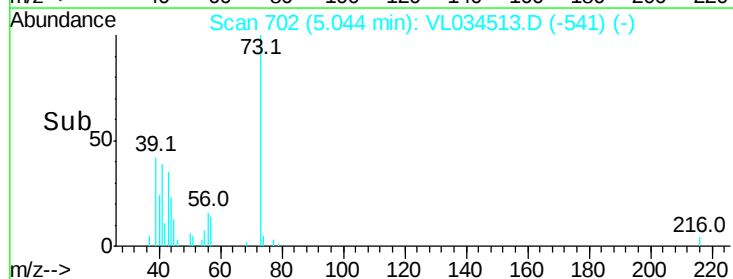
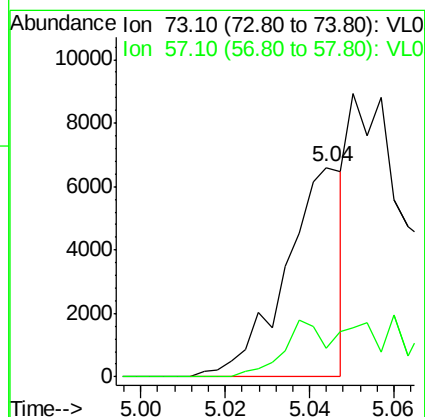
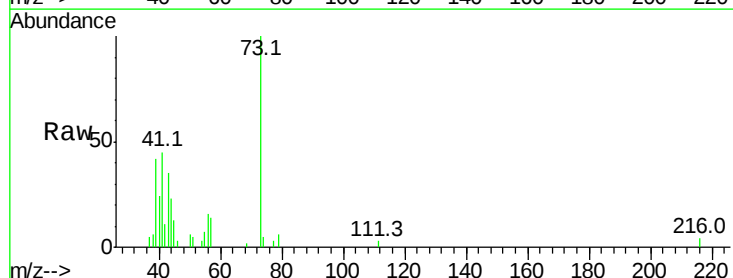
Acq: 30 Dec 2019 12:58

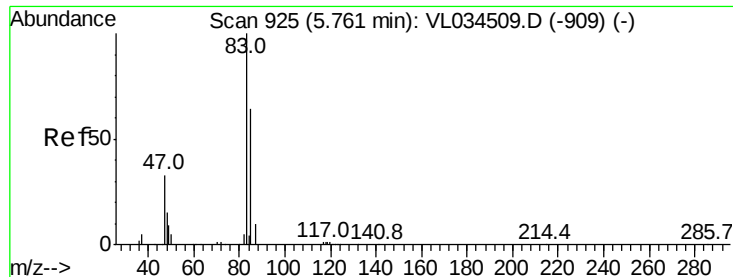
Tgt Ion: 73 Resp: 6280

Ion Ratio Lower Upper

73 100

57 0.0 18.2 27.2#

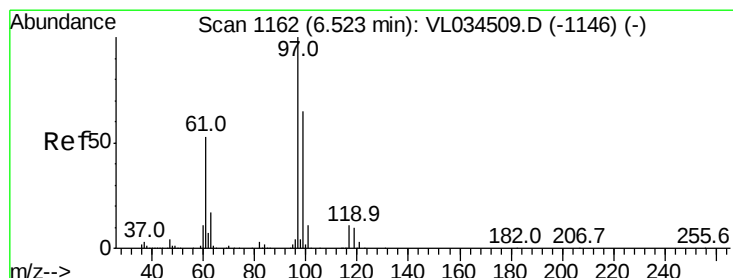
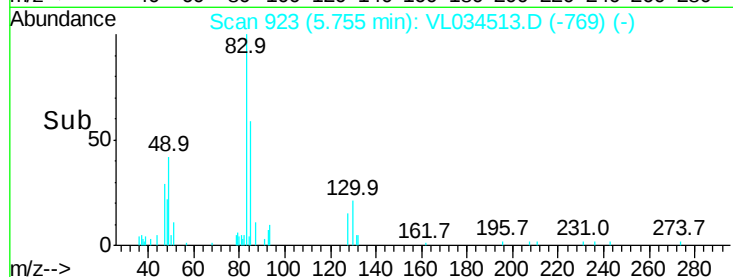
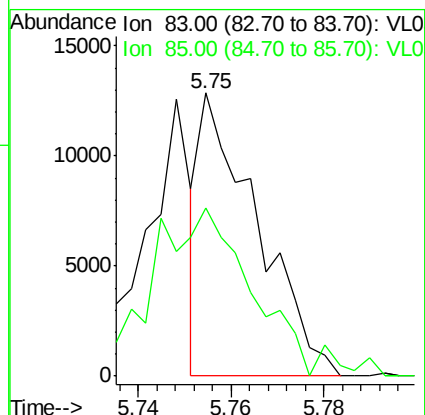
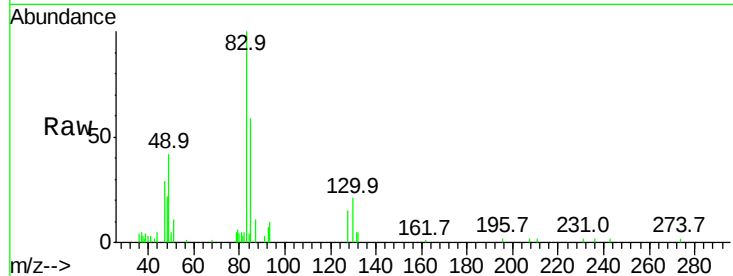




#29
Chloroform
Concen: 0.058 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL034513.D
Acq: 30 Dec 2019 12:58

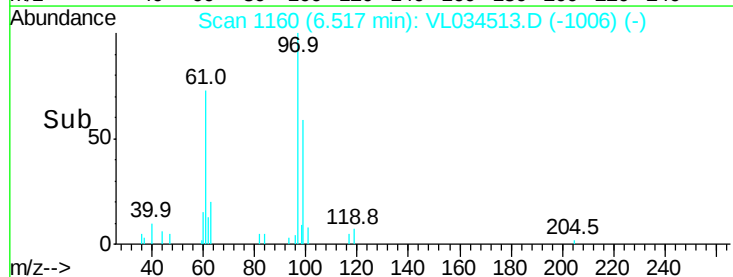
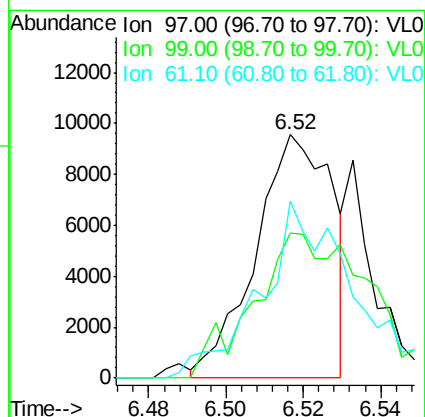
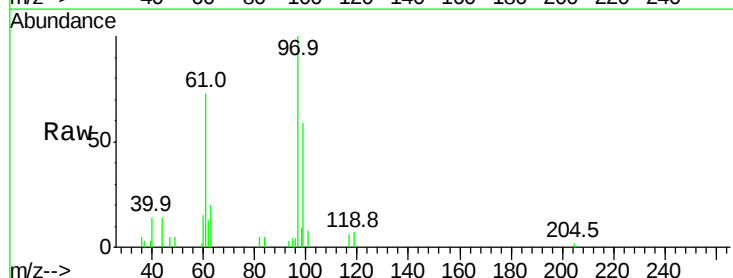
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

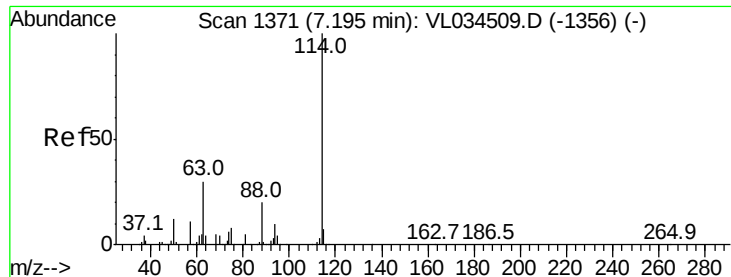
Tgt Ion: 83 Resp: 10995
Ion Ratio Lower Upper
83 100
85 55.3 51.0 76.6



#32
1,1,1-Trichloroethane
Concen: 0.075 ppbv
RT: 6.52 min Scan# 1160
Delta R.T. -0.01 min
Lab File: VL034513.D
Acq: 30 Dec 2019 12:58

Tgt Ion: 97 Resp: 13191
Ion Ratio Lower Upper
97 100
99 89.1 51.7 77.5#
61 85.3 42.9 64.3#

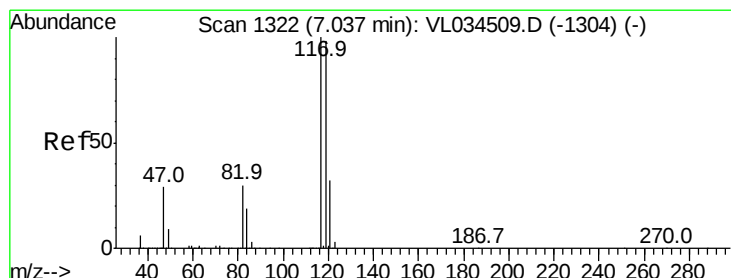
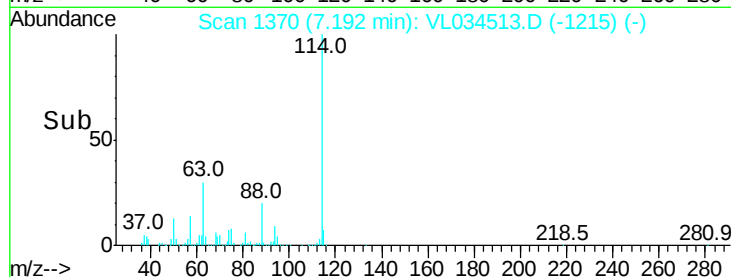
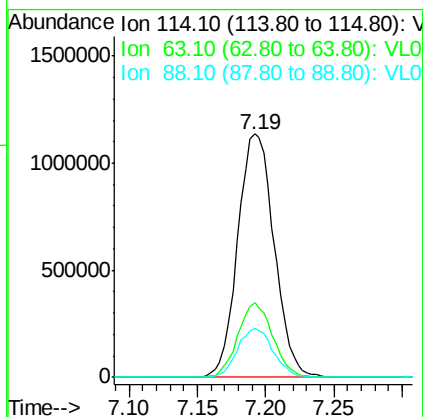
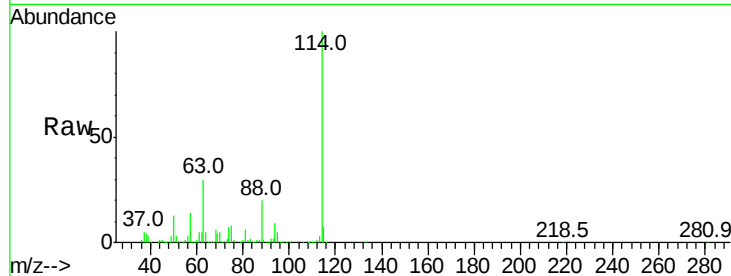




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. -0.00 min
 Lab File: VL034513.D
 Acq: 30 Dec 2019 12:58

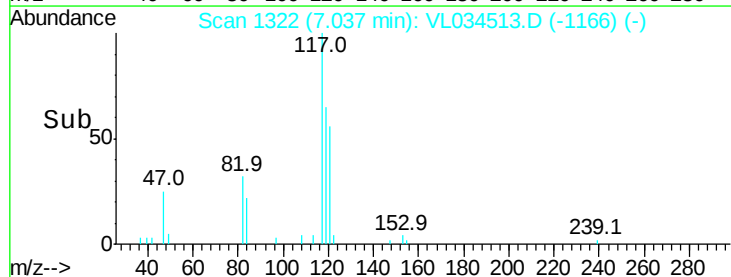
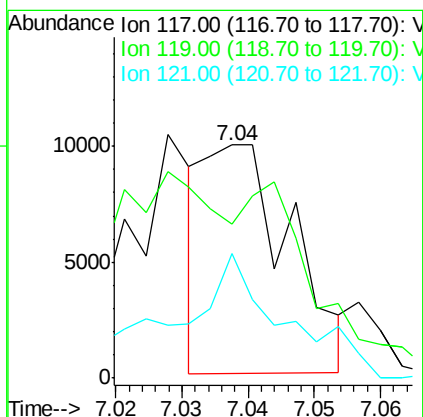
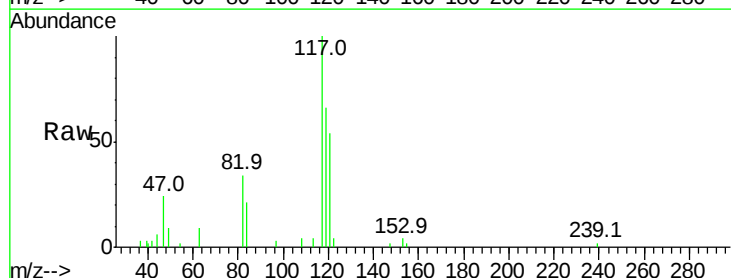
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

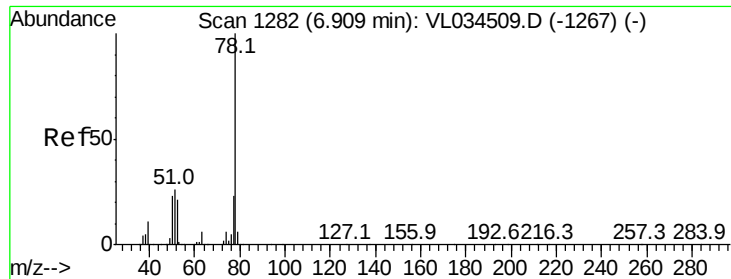
Tgt Ion:114 Resp: 2108299
 Ion Ratio Lower Upper
 114 100
 63 29.5 24.1 36.1
 88 19.6 15.7 23.5



#35
 Carbon Tetrachloride
 Concen: 0.049 ppbv
 RT: 7.04 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VL034513.D
 Acq: 30 Dec 2019 12:58

Tgt Ion:117 Resp: 8924
 Ion Ratio Lower Upper
 117 100
 119 47.1 78.7 118.1#
 121 42.7 25.9 38.9#





#36

Benzene

Concen: 0.034 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

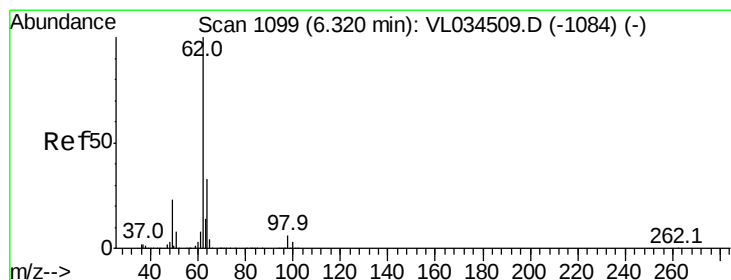
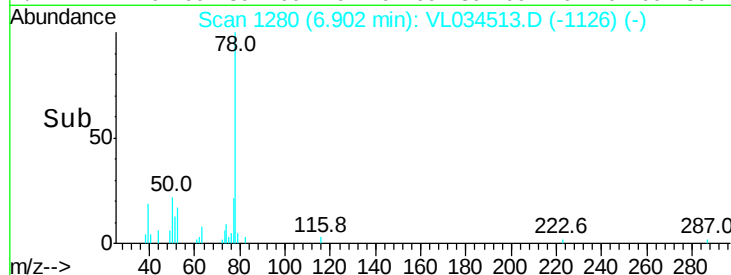
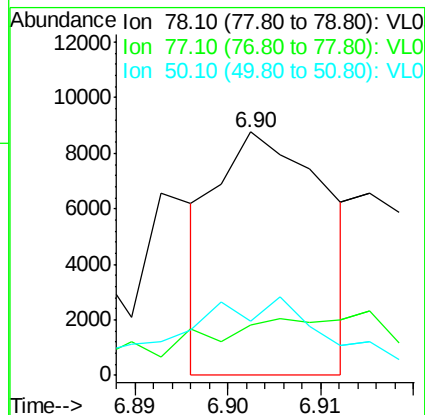
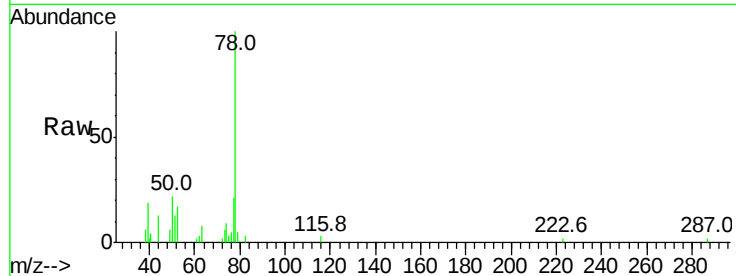
Tgt Ion: 78 Resp: 7183

Ion Ratio Lower Upper

78 100

77 5.7 18.6 28.0#

50 34.5 18.8 28.2#



#37

1,2-Dichloroethane

Concen: 0.034 ppbv

RT: 6.32 min Scan# 1100

Delta R.T. 0.00 min

Lab File: VL034513.D

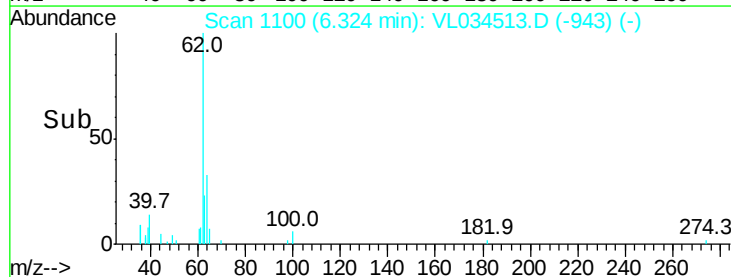
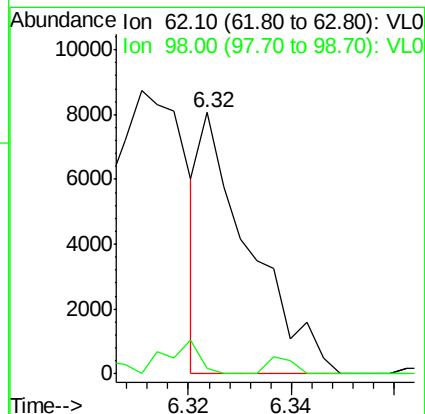
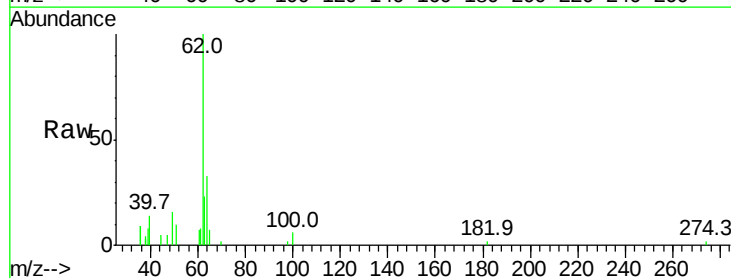
Acq: 30 Dec 2019 12:58

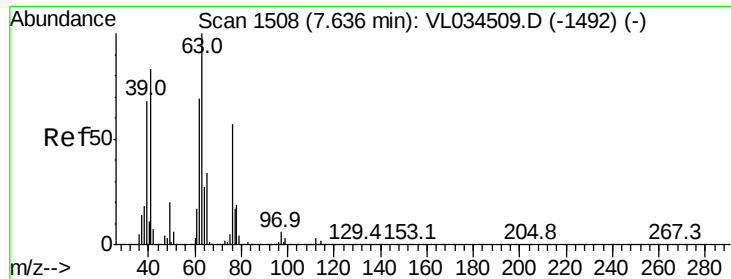
Tgt Ion: 62 Resp: 5374

Ion Ratio Lower Upper

62 100

98 14.4 3.8 5.6#





#39

1,2-Dichloropropane

Concen: 7.636 ppbv

RT: 7.19 min Scan# 1370

Delta R.T. -0.44 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

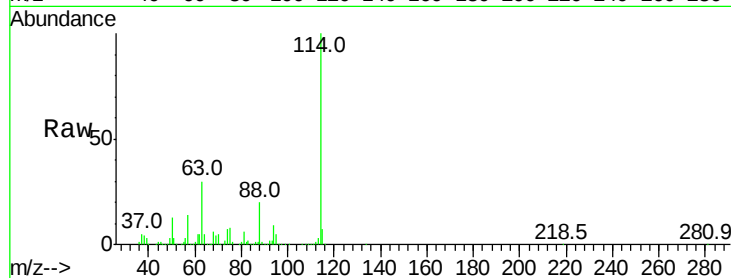
Tgt Ion: 63 Resp: 620029

Ion Ratio Lower Upper

63 100

41 0.0 66.1 99.1#

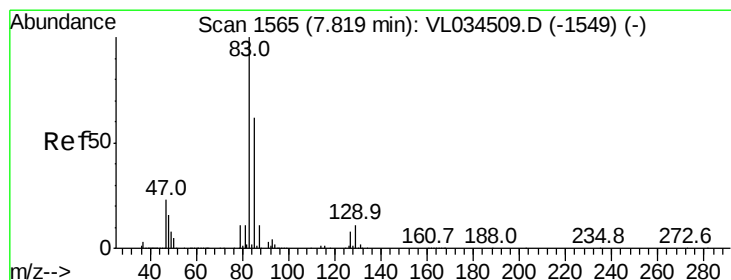
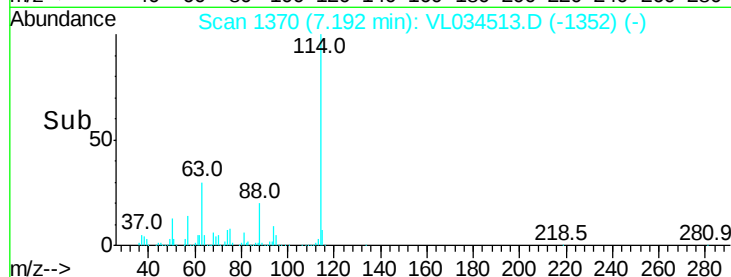
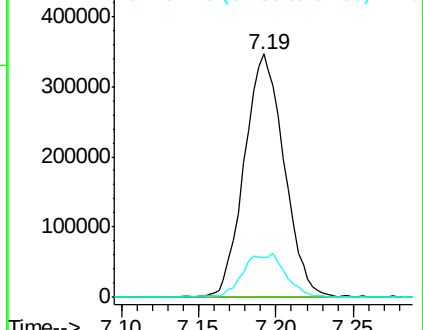
62 16.3 54.9 82.3#



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



#42

Bromodichloromethane

Concen: 0.034 ppbv

RT: 7.82 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

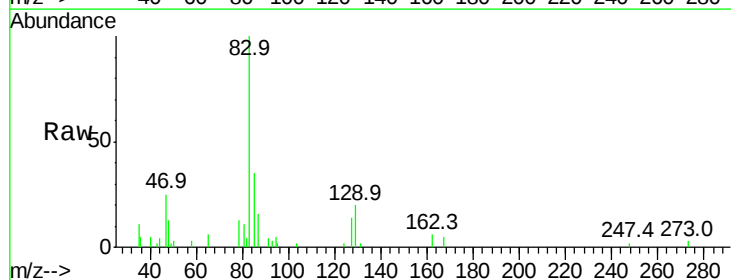
Tgt Ion: 83 Resp: 6651

Ion Ratio Lower Upper

83 100

85 33.3 49.4 74.2#

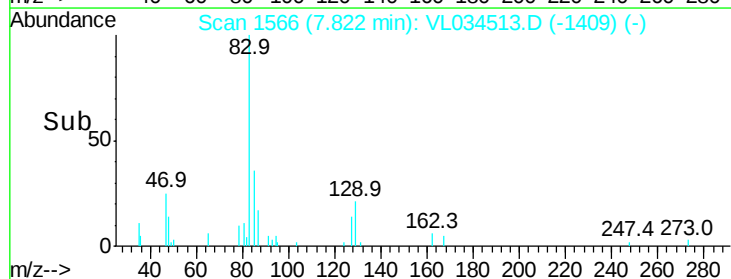
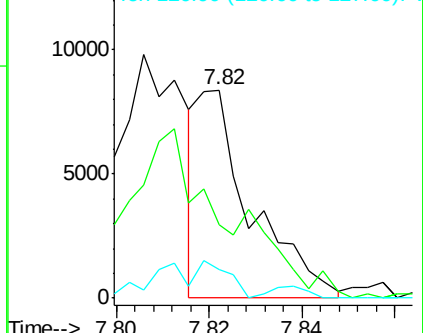
127 14.4 6.2 9.4#

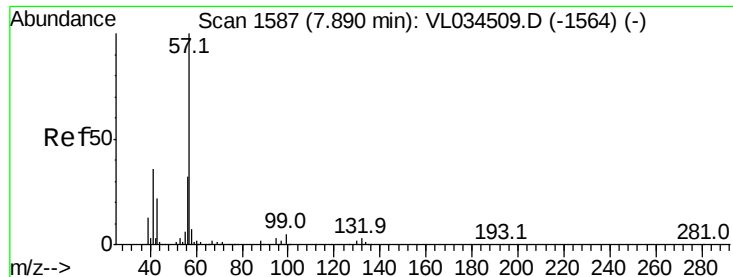


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V





#44

2,2,4-Trimethylpentane

Concen: 0.042 ppbv

RT: 7.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

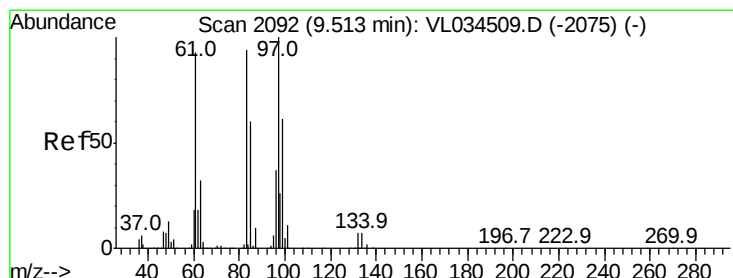
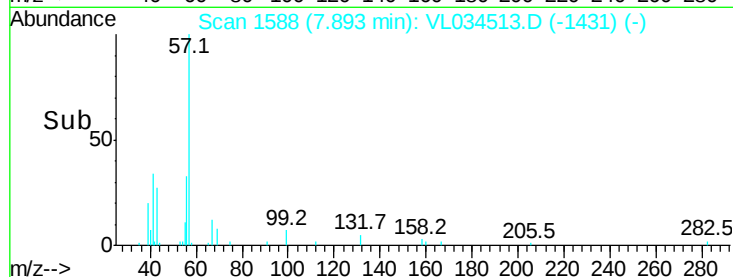
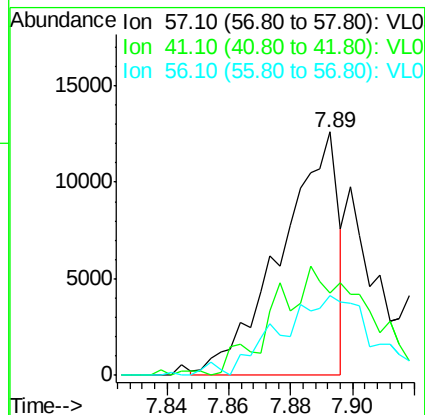
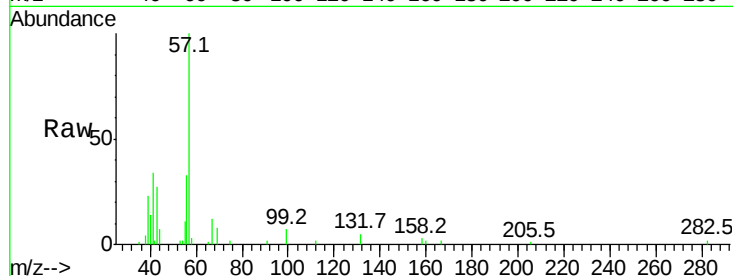
Tgt Ion: 57 Resp: 16174

Ion Ratio Lower Upper

57 100

41 77.0 29.0 43.4#

56 55.5 24.9 37.3#



#47

1,1,2-Trichloroethane

Concen: 0.047 ppbv

RT: 9.51 min Scan# 2090

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Tgt Ion: 97 Resp: 4213

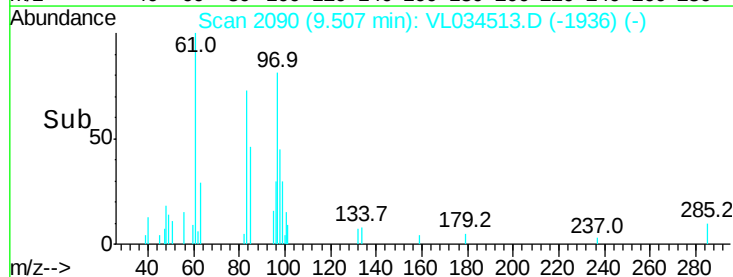
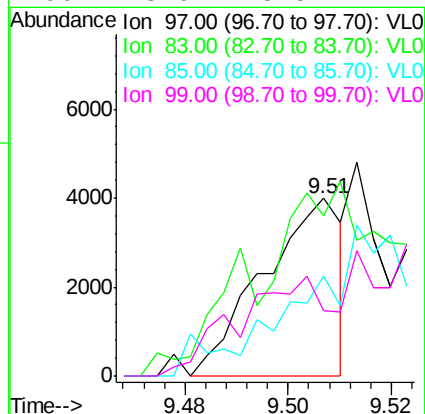
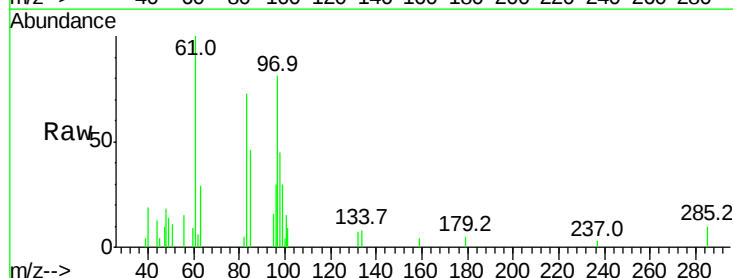
Ion Ratio Lower Upper

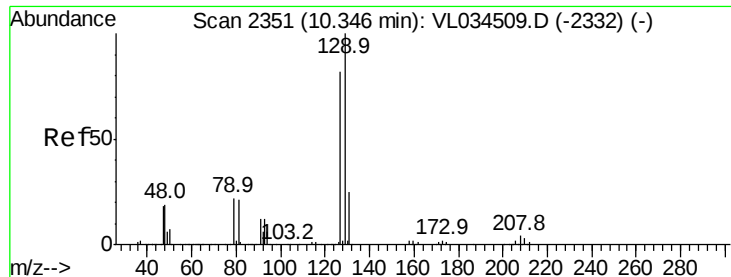
97 100

83 79.3 75.0 112.4

85 32.8 48.2 72.4#

99 28.9 48.5 72.7#





#48

Dibromochloromethane

Concen: 0.051 ppbv

RT: 10.34 min Scan# 2349

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

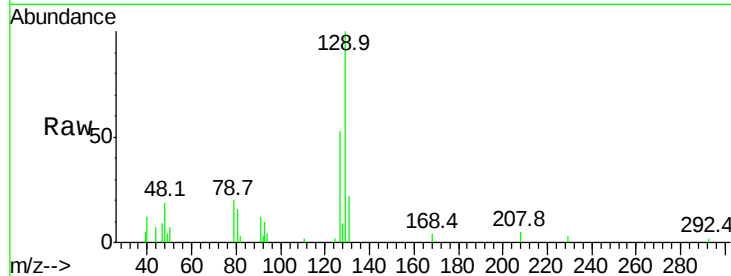
VSTDIC0.1

Tgt Ion:129 Resp: 7881

Ion Ratio Lower Upper

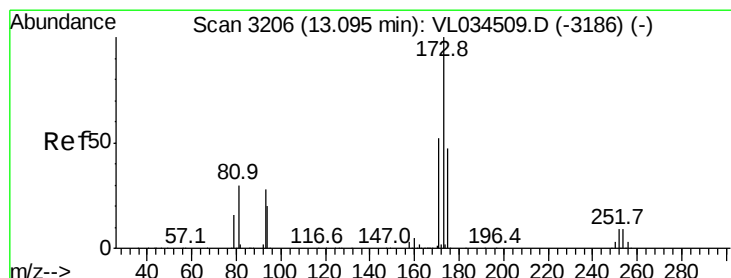
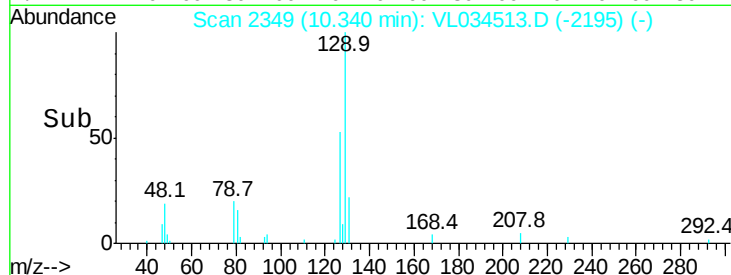
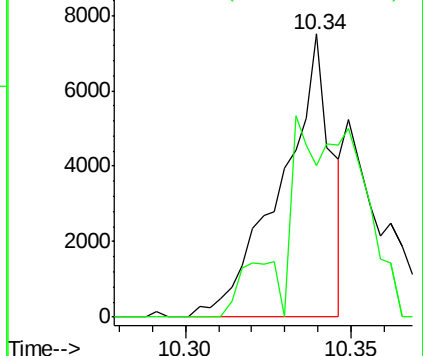
129 100

127 109.6 39.4 118.2



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.040 ppbv

RT: 13.09 min Scan# 3203

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

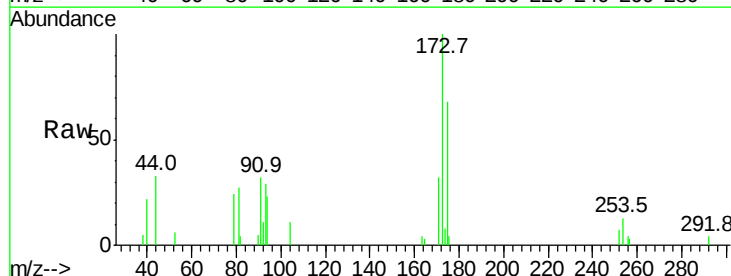
Tgt Ion:173 Resp: 5588

Ion Ratio Lower Upper

173 100

175 101.8 39.8 59.8#

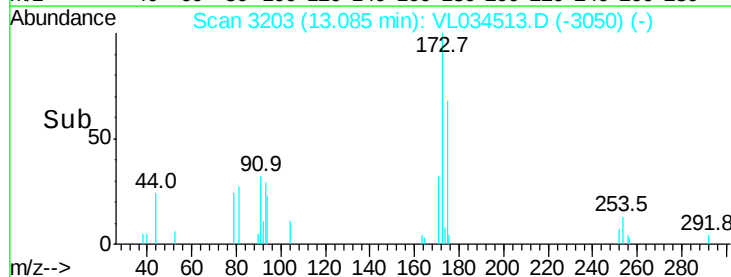
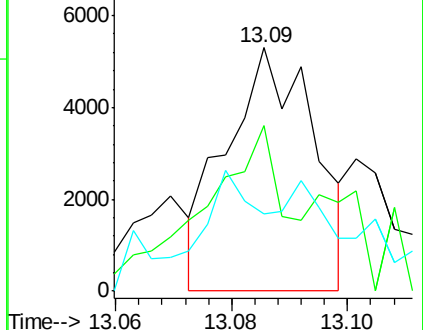
171 84.6 42.1 63.1#

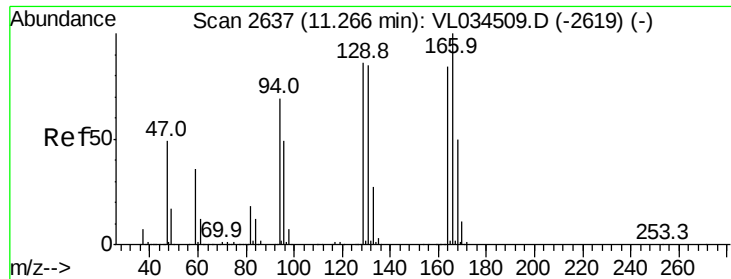


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V





#52

Tetrachloroethene

Concen: 0.055 ppbv

RT: 11.26 min Scan# 2634

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tgt Ion:164 Resp: 4989

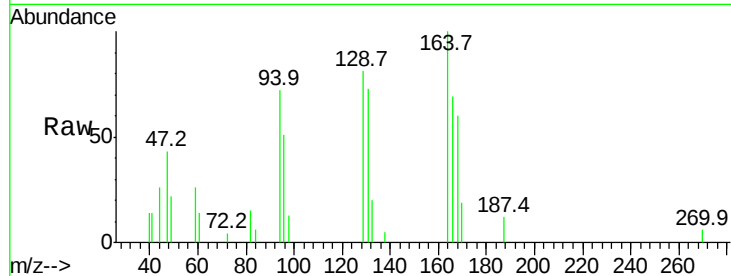
Ion Ratio Lower Upper

164 100

166 51.7 95.7 143.5#

129 58.3 82.2 123.2#

131 25.9 81.3 121.9#

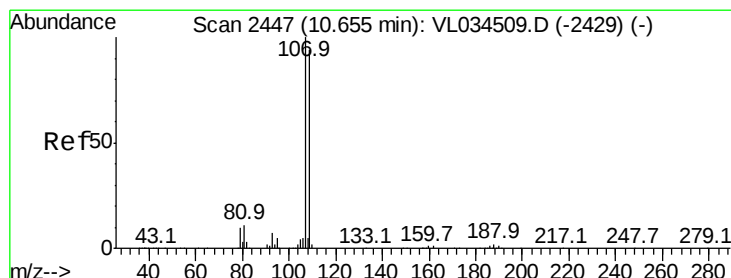
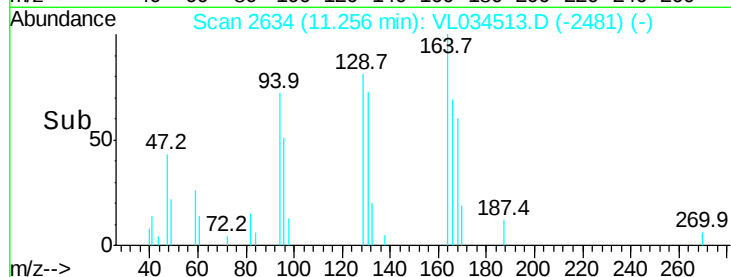
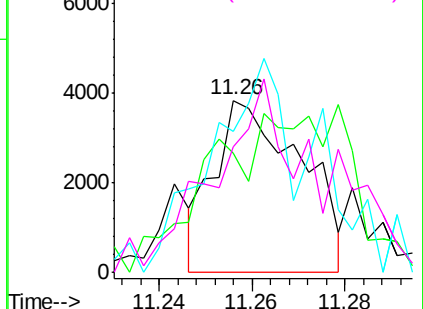


Abundance Ion 163.90 (163.60 to 164.60): V

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



#54

1,2-Dibromoethane

Concen: 0.041 ppbv

RT: 10.65 min Scan# 2445

Delta R.T. -0.01 min

Lab File: VL034513.D

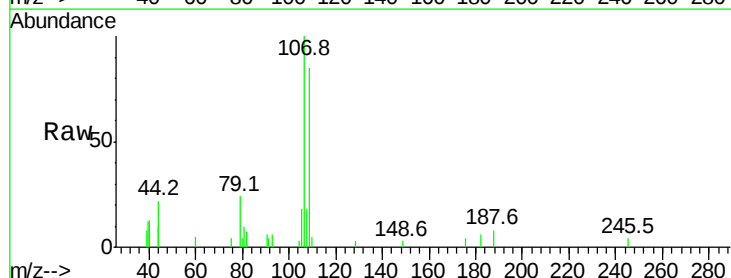
Acq: 30 Dec 2019 12:58

Tgt Ion:107 Resp: 5679

Ion Ratio Lower Upper

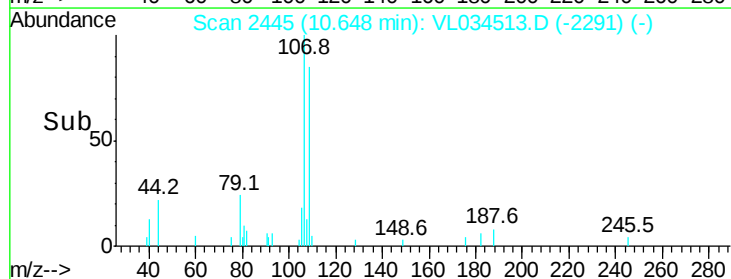
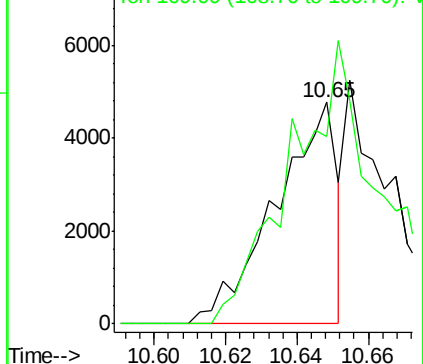
107 100

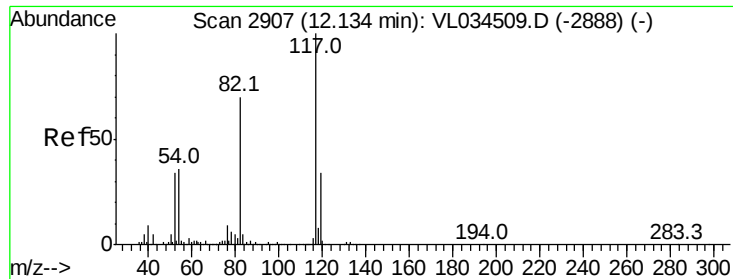
109 84.8 75.5 113.3



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: 12.13 min Scan# 2905

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

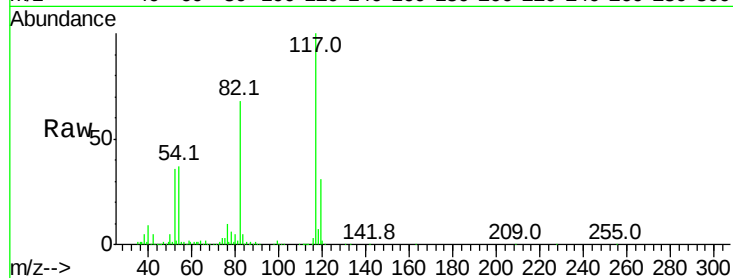
Tgt Ion:117 Resp: 2047190

Ion Ratio Lower Upper

117 100

82 72.1 56.2 84.4

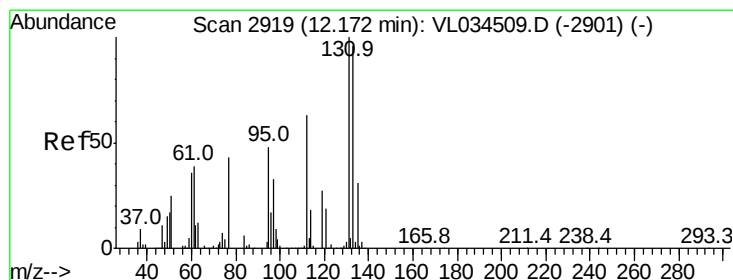
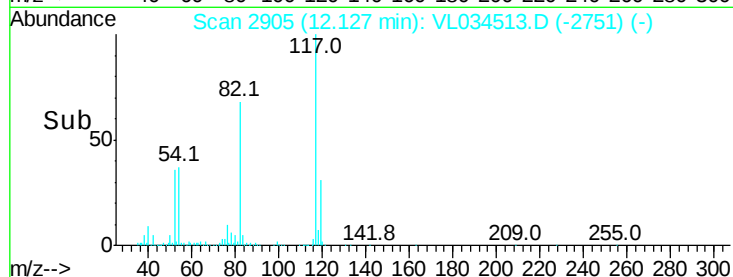
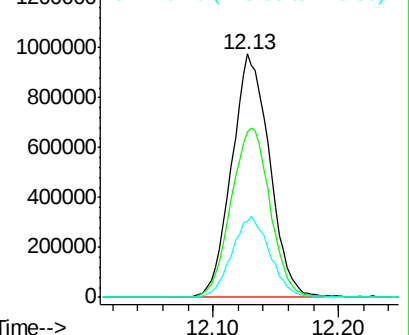
119 33.5 27.1 40.7



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.041 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

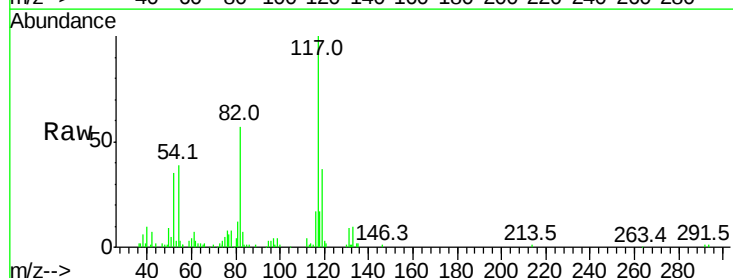
Tgt Ion:131 Resp: 4121

Ion Ratio Lower Upper

131 100

133 247.1 76.2 114.2#

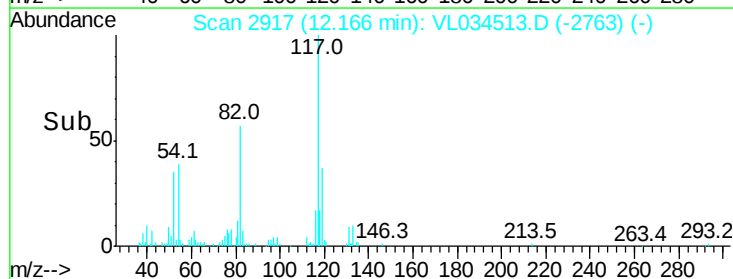
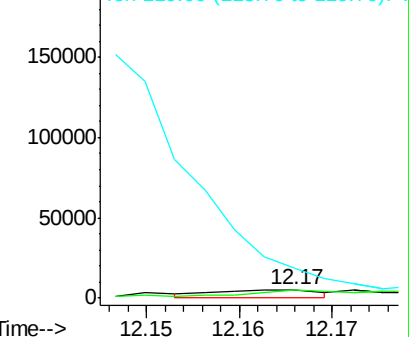
119 0.0 47.1 70.7#

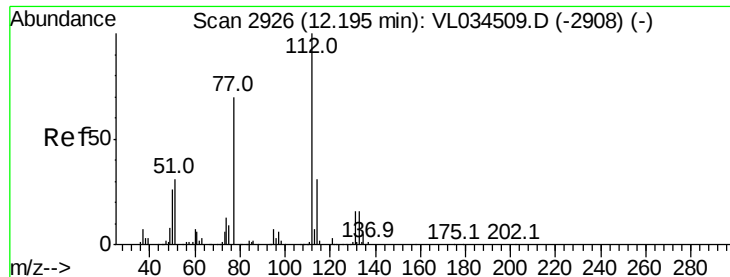


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 0.035 ppbv

RT: 12.19 min Scan# 2925

Delta R.T. -0.00 min

Lab File: VL034513.D

Acq: 30 Dec 2019 12:58

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

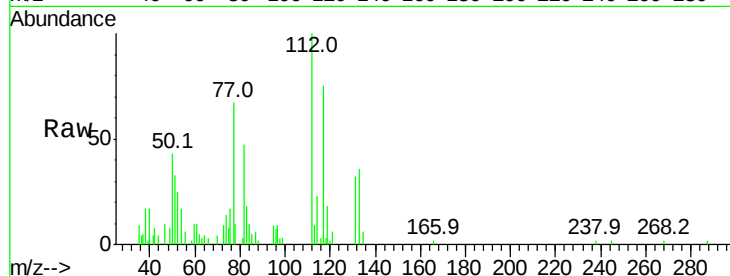
Tgt Ion:112 Resp: 6396

Ion Ratio Lower Upper

112 100

77 21.8 57.4 86.0#

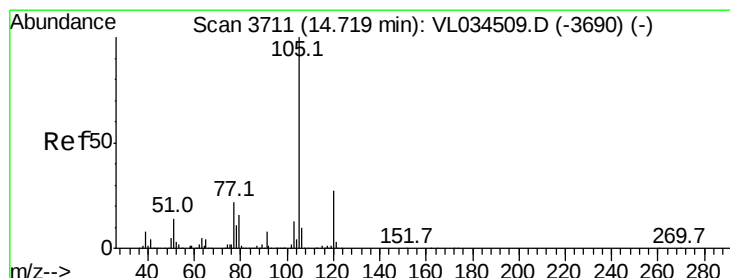
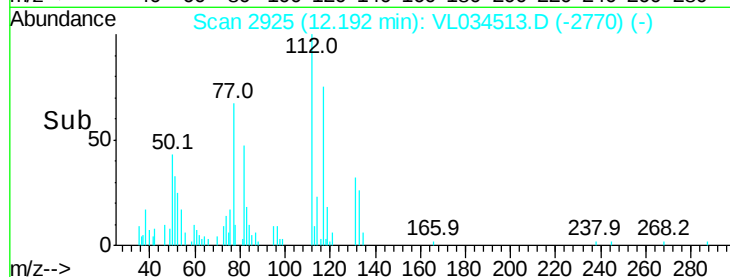
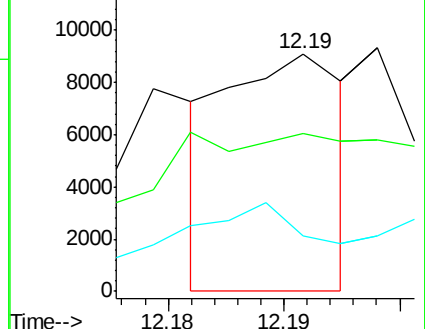
114 19.2 28.4 34.8#



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



#62

Isopropylbenzene

Concen: 0.033 ppbv

RT: 14.71 min Scan# 3708

Delta R.T. -0.01 min

Lab File: VL034513.D

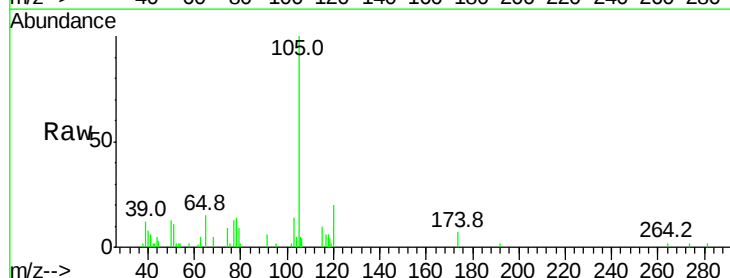
Acq: 30 Dec 2019 12:58

Tgt Ion:105 Resp: 11879

Ion Ratio Lower Upper

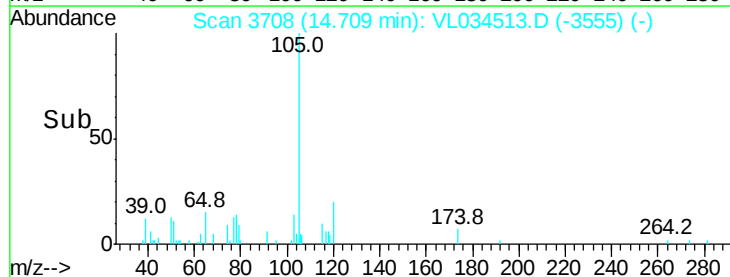
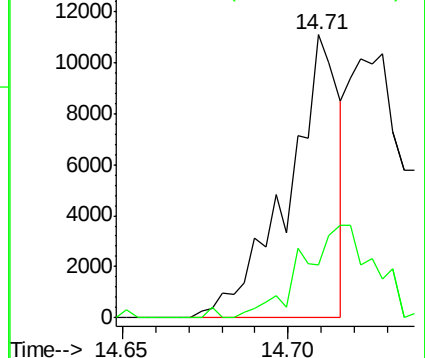
105 100

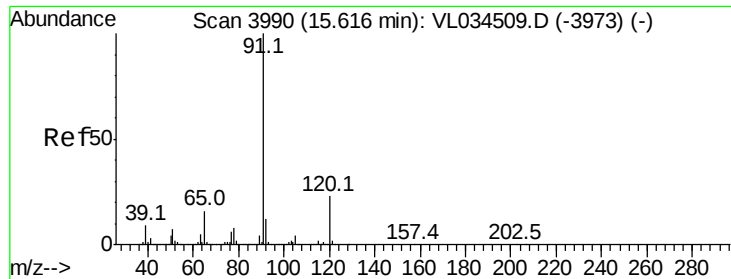
120 48.6 20.6 30.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

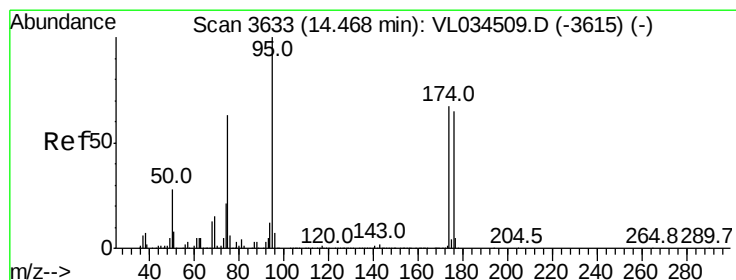
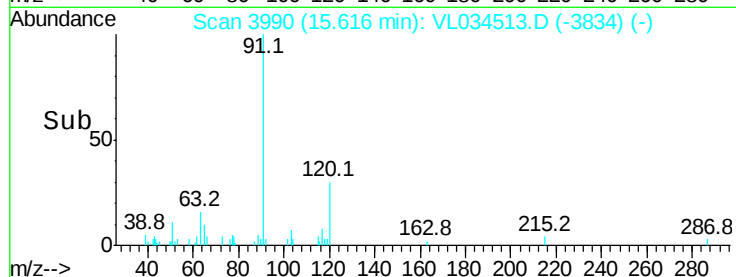
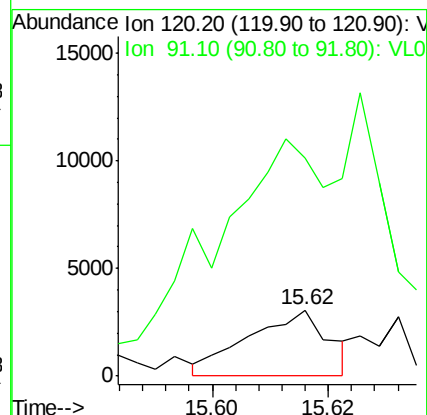
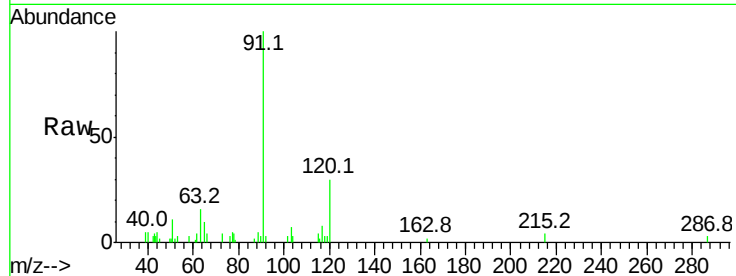




#64
n-propylbenzene
Concen: 0.032 ppbv
RT: 15.62 min Scan# 3990
Delta R.T. 0.00 min
Lab File: VL034513.D
Acq: 30 Dec 2019 12:58

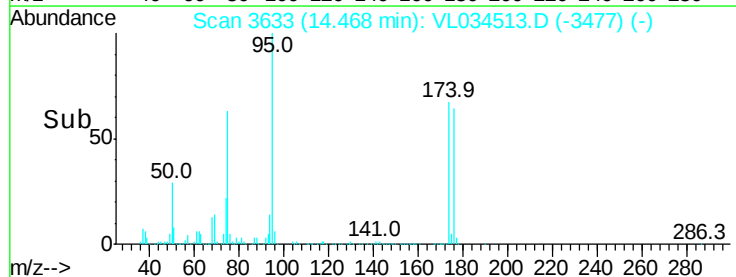
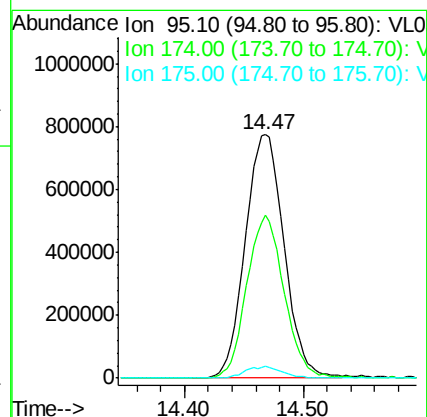
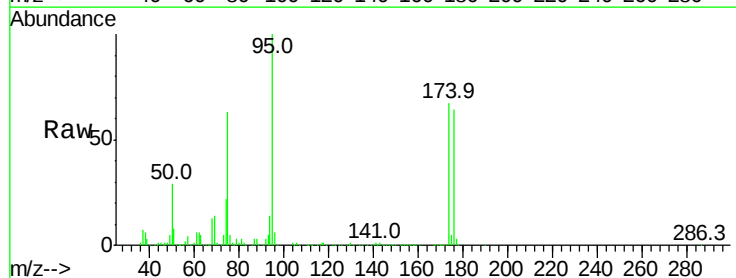
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

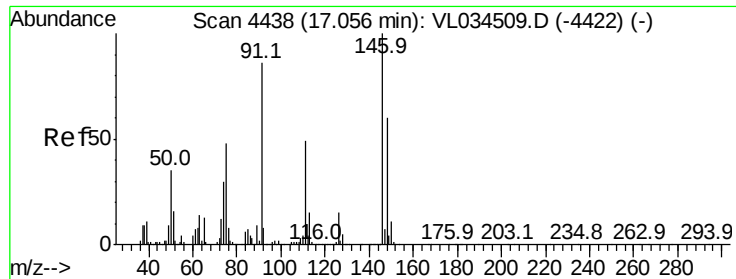
Tgt Ion: 120 Resp: 2956
Ion Ratio Lower Upper
120 100
91 0.0 375.6 563.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.154 ppbv
RT: 14.47 min Scan# 3633
Delta R.T. 0.00 min
Lab File: VL034513.D
Acq: 30 Dec 2019 12:58

Tgt Ion: 95 Resp: 1748747
Ion Ratio Lower Upper
95 100
174 64.6 52.4 78.6
175 4.5 3.9 5.9

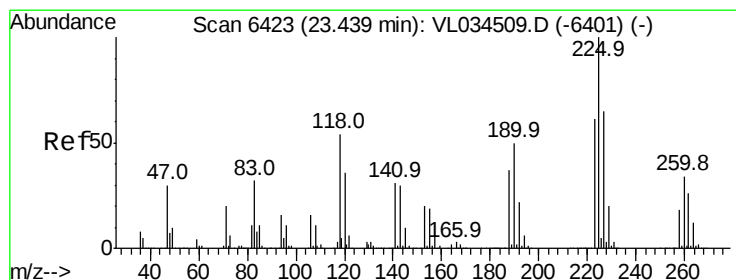
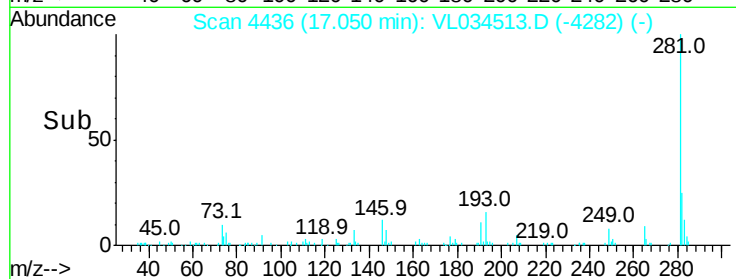
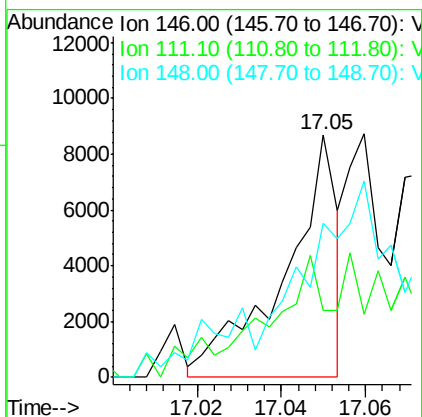
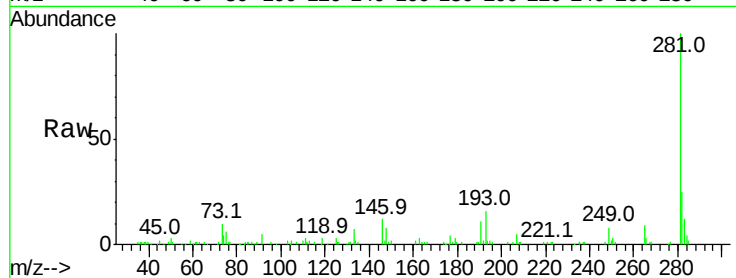




#75
 1,3-Dichlorobenzene
 Concen: 0.040 ppbv
 RT: 17.05 min Scan# 4436
 Delta R.T. -0.01 min
 Lab File: VL034513.D
 Acq: 30 Dec 2019 12:58

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:146 Resp: 7483
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.1 75.3#
 148 0.0 33.0 99.0#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.054 ppbv
 RT: 23.44 min Scan# 6423
 Delta R.T. 0.00 min
 Lab File: VL034513.D
 Acq: 30 Dec 2019 12:58

Tgt Ion:225 Resp: 8331
 Ion Ratio Lower Upper
 225 100
 223 0.0 51.0 76.6#
 227 0.0 51.8 77.6#

