

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034535.D
 Acq On : 31 Dec 2019 6:25
 Operator : SY/AP
 Sample : K6470-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 31 08:23:34 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 14:58:50 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	926437	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1859403	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1828207	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1570262	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.10	85	12034	0.082	ppbv 93
3) Chlorodifluoromethane	3.09	51	3552	0.032	ppbv 95
4) Chloromethane	3.11	50	34112	0.520	ppbv # 80
7) Chloroethane	3.40	64	935	0.042	ppbv # 43
9) Propene	3.18	41	195681	4.598	ppbv 97
10) Heptane	8.15	43	12140	0.110	ppbv # 24
11) Trichlorofluoromethane	3.94	101	41209	0.244	ppbv # 81
12) 1,1,2-Trichlorotrifluoroet	4.47	101	3340	0.031	ppbv # 13
13) Ethanol	3.60	45	4630097	392.117	ppbv 98
15) Acetone	3.83	43	1461551	10.810	ppbv 94
16) 1,3-Butadiene	3.28	39	18127	0.349	ppbv # 8
17) tert-Butyl alcohol	4.30	59	64450	0.595	ppbv # 72
19) Isopropyl Alcohol	3.98	45	462151	5.280	ppbv # 98
20) Methylene Chloride	4.33	84	8673	0.163	ppbv # 73
23) Vinyl Acetate	5.06	43	49670	0.318	ppbv # 1
25) Ethyl Acetate	5.69	43	90294	0.428	ppbv # 94
26) Hexane	5.69	57	37506	0.422	ppbv 90
27) Carbon Disulfide	4.55	76	17457	0.155	ppbv # 70
29) Chloroform	5.76	83	6812	0.044	ppbv 100
30) Cyclohexane	7.15	84	2108	0.032	ppbv # 1
34) 2-Butanone	5.25	43	117691	0.886	ppbv 98
35) Carbon Tetrachloride	7.03	117	8398	0.050	ppbv # 80
36) Benzene	6.91	78	102525	0.633	ppbv # 91
39) 1,2-Dichloropropane	7.19	63	542075	8.133	ppbv # 21
44) 2,2,4-Trimethylpentane	7.89	57	80316	0.268	ppbv # 72
50) 4-Methyl-2-Pentanone	8.78	43	124614	0.646	ppbv 99
53) Toluene	9.84	91	307200	1.725	ppbv 99
58) Ethyl Benzene	12.77	91	35955	0.146	ppbv 93
59) m/p-Xylene	13.02	91	225404	1.045	ppbv # 32
60) o-Xylene	13.73	91	48171	0.223	ppbv # 62
61) Styrene	13.58	104	3651	0.025	ppbv # 24
64) n-propylbenzene	15.62	120	7003	0.097	ppbv # 1
65) tert-Butylbenzene	16.81	119	14303	0.056	ppbv # 15
69) p-Isopropyltoluene	17.71	119	10827	0.037	ppbv # 68
70) n-Butylbenzene	18.60	91	9882	0.031	ppbv # 1
72) 4-Ethyltoluene	15.89	105	99346	0.410	ppbv 97
73) 1,3,5-Trimethylbenzene	16.05	105	97375	0.410	ppbv 99
74) 1,2,4-Trimethylbenzene	16.82	105	339916	1.338	ppbv # 67
79) Naphthalene	22.28	128	14244	0.074	ppbv # 80
80) Naphthalene,2-methyl-	25.04	142	4629	0.087	ppbv # 86

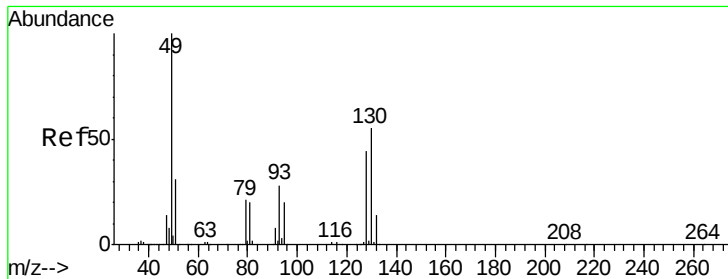
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
Data File : VL034535.D
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 30 14:58:50 2019
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

ClientSampled :

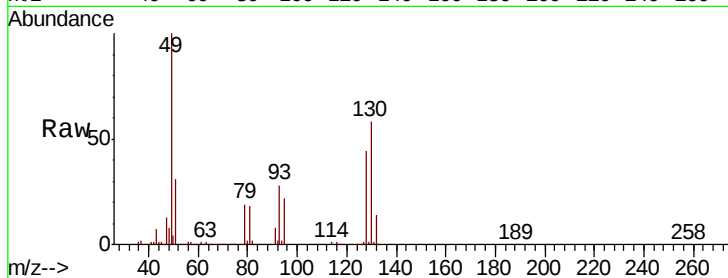
Tot Ion: 49 Resp: 926437

Ion Ratio Lower Upper

49 100

128 43.4 22.4 67.2

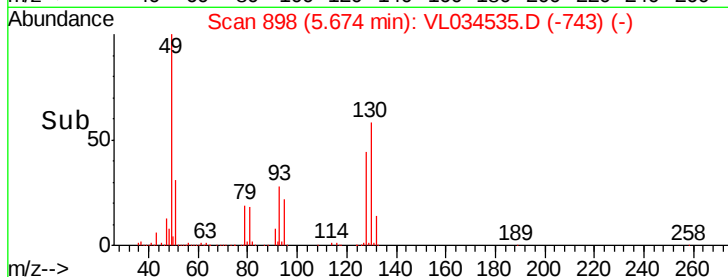
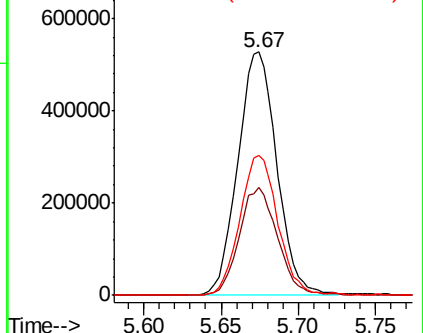
130 56.6 28.3 85.0



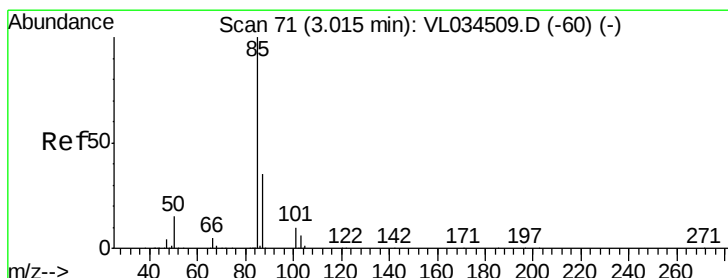
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Scan 898 (5.674 min): VL034535.D (-743) (-)



#2

Dichlorodifluoromethane

Concen: 0.082 ppbv

RT: 3.10 min Scan# 96

Delta R.T. 0.08 min

Lab File: VL034535.D

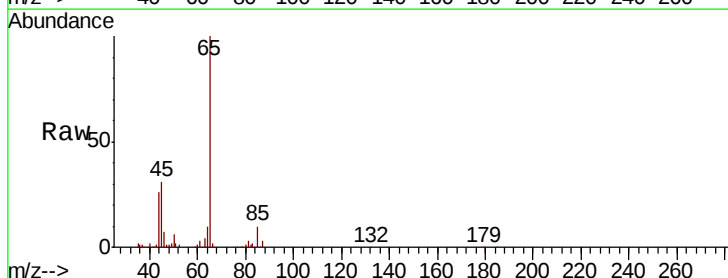
Acq: 31 Dec 2019 6:25

Tgt Ion: 85 Resp: 12034

Ion Ratio Lower Upper

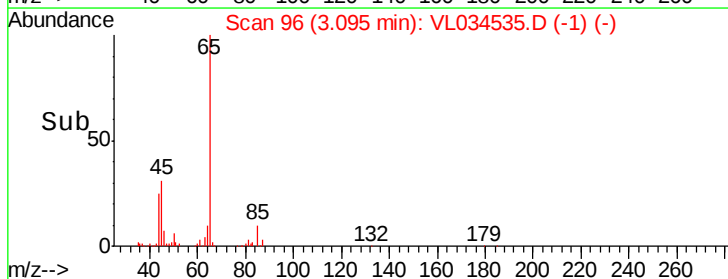
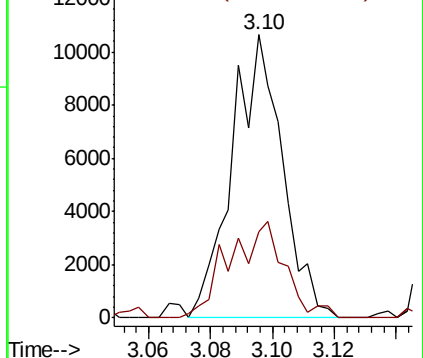
85 100

87 30.6 27.9 41.9

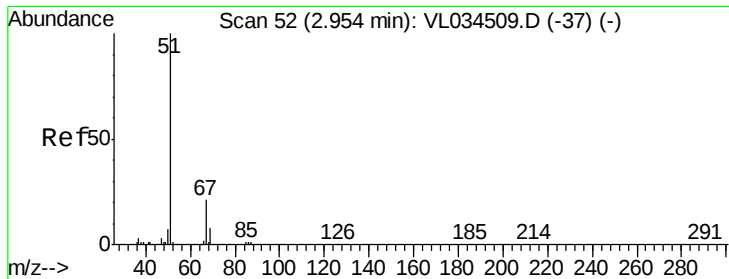


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0



Scan 96 (3.095 min): VL034535.D (-1) (-)



#3

Chlorodifluoromethane

Concen: 0.032 ppbv

RT: 3.09 min Scan# 95

Delta R.T. 0.14 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

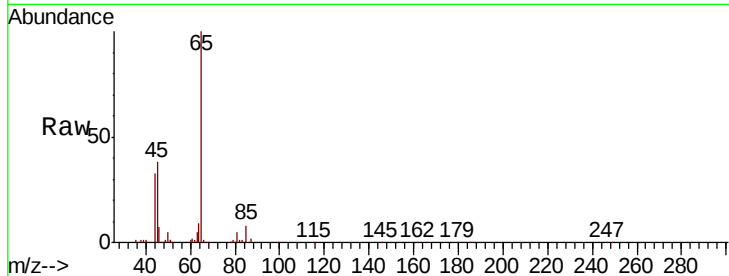
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 51 Resp: 3552

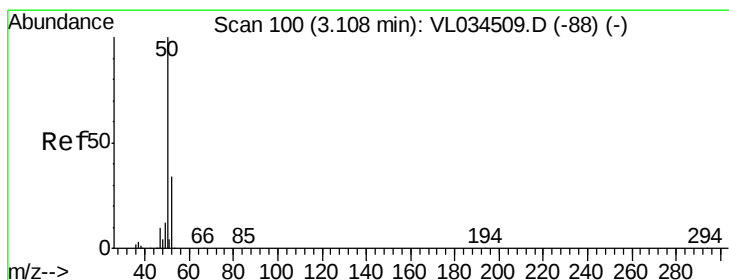
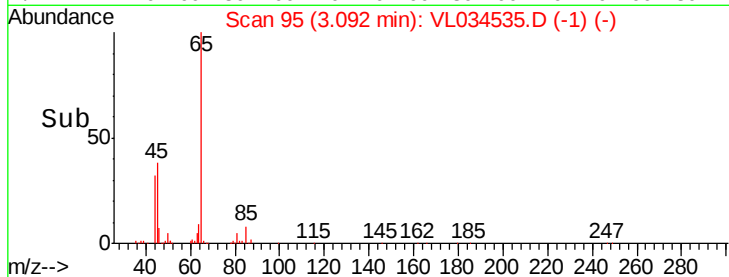
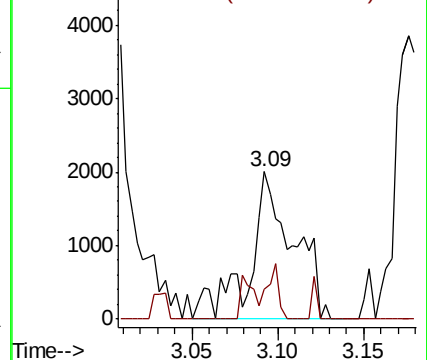
Ion Ratio Lower Upper

51 100

67 18.8 16.8 25.2



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.520 ppbv

RT: 3.11 min Scan# 101

Delta R.T. 0.00 min

Lab File: VL034535.D

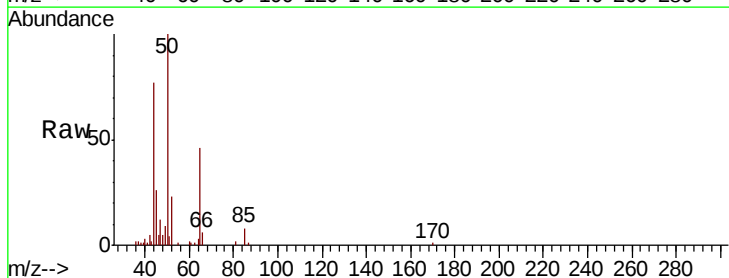
Acq: 31 Dec 2019 6:25

Tgt Ion: 50 Resp: 34112

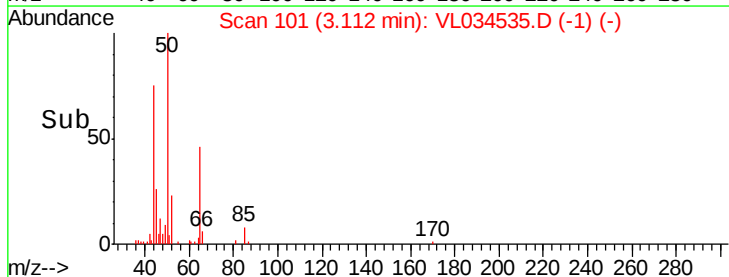
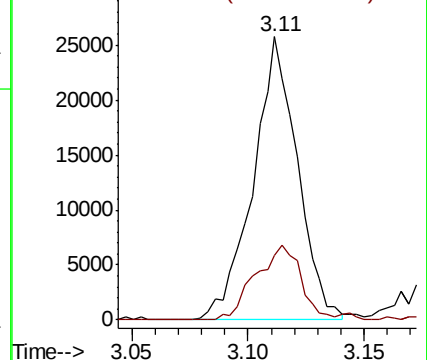
Ion Ratio Lower Upper

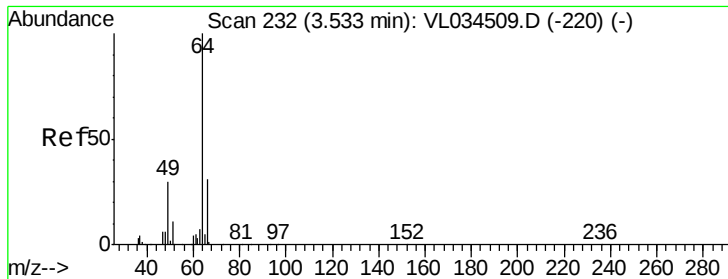
50 100

52 23.2 27.6 41.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.042 ppbv

RT: 3.40 min Scan# 191

Delta R.T. -0.13 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

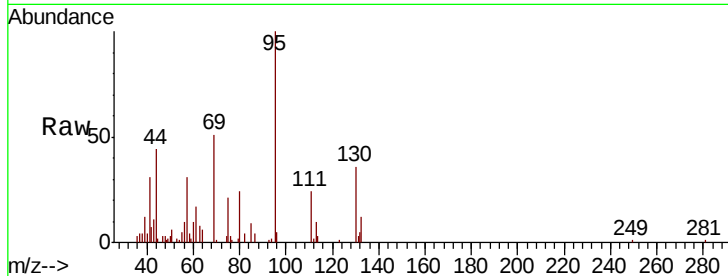
ClientSampleId :

Tot Ion: 64 Resp: 935

Ion Ratio Lower Upper

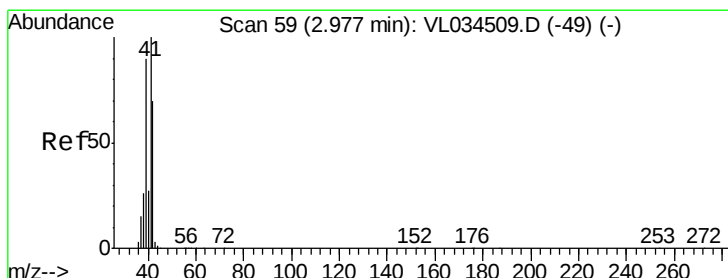
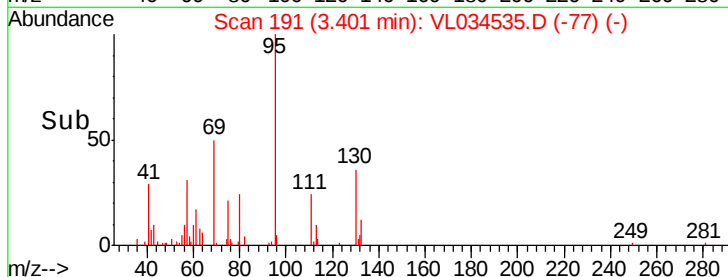
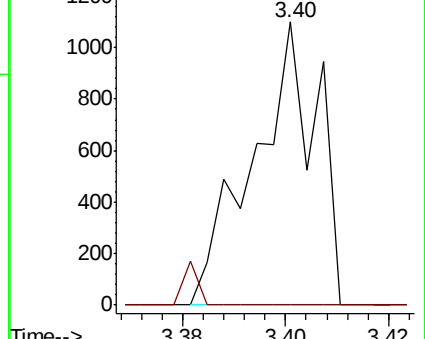
64 100

66 0.0 25.0 37.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 4.598 ppbv

RT: 3.18 min Scan# 121

Delta R.T. 0.20 min

Lab File: VL034535.D

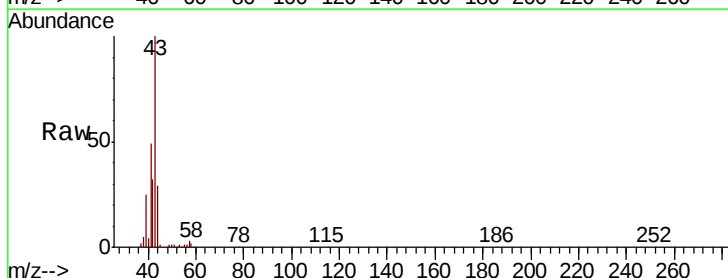
Acq: 31 Dec 2019 6:25

Tgt Ion: 41 Resp: 195681

Ion Ratio Lower Upper

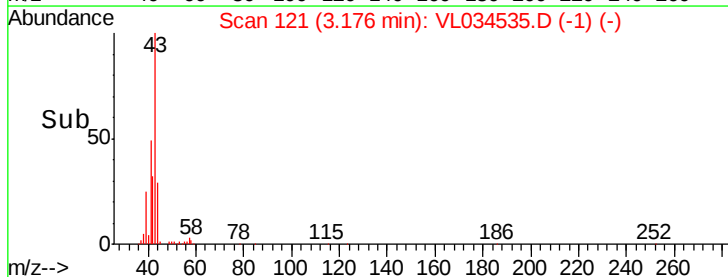
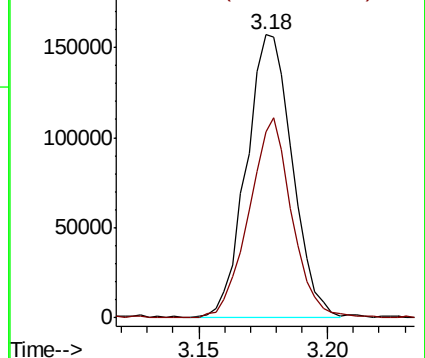
41 100

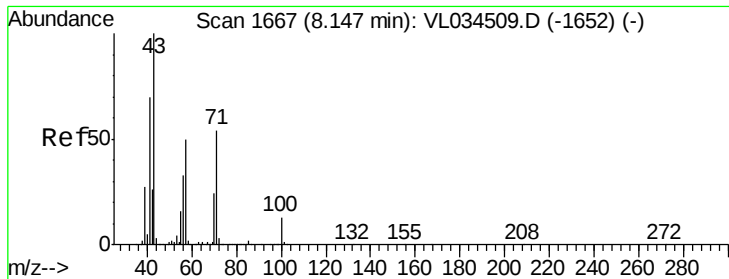
42 67.6 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

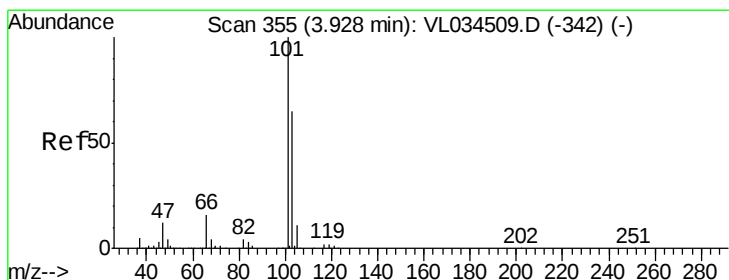
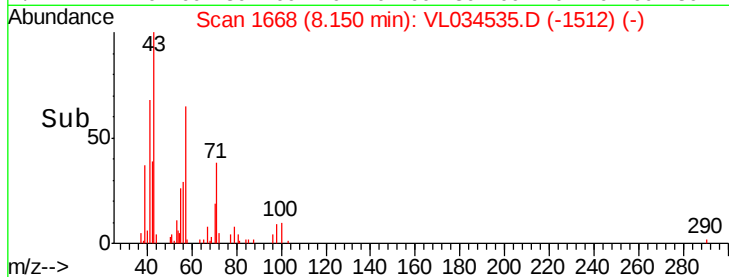
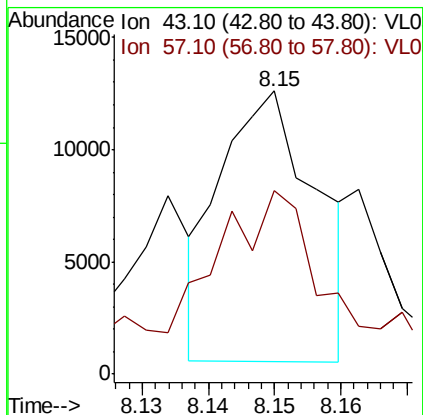
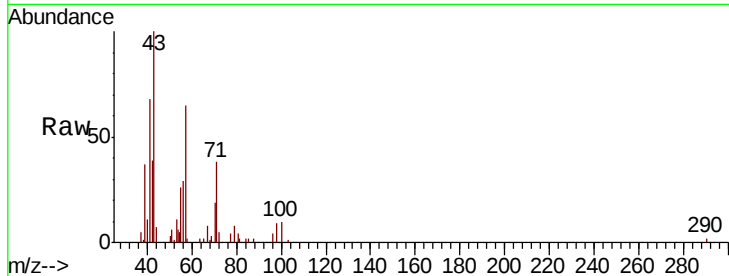




#10
 Heptane
 Concen: 0.110 ppbv
 RT: 8.15 min Scan# 1668
 Delta R.T. 0.00 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

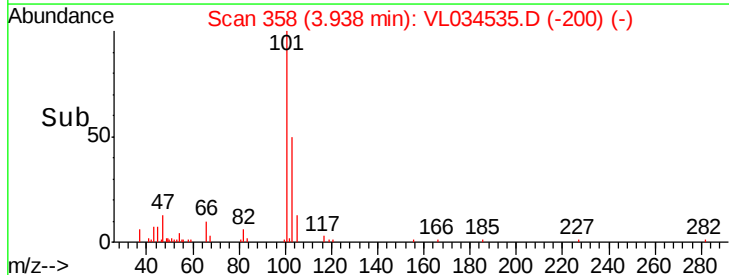
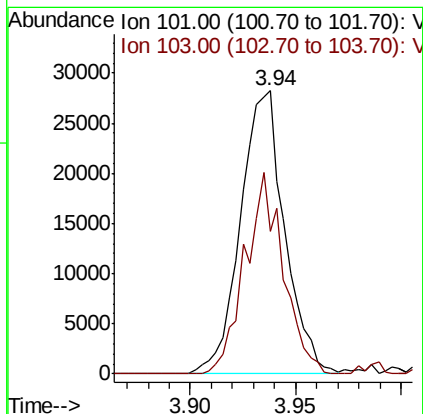
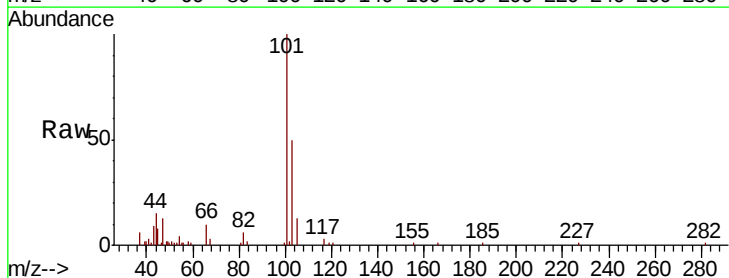
Instrument :
 MSVOA_L
 ClientSampleId :

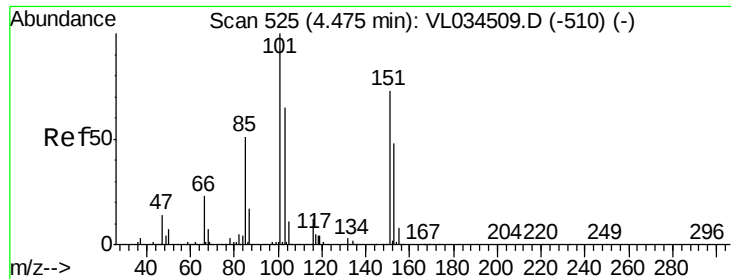
Tot Ion: 43 Resp: 12140
 Ion Ratio Lower Upper
 43 100
 57 104.4 41.0 61.6#



#11
 Trichlorofluoromethane
 Concen: 0.244 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. 0.01 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

Tgt Ion: 101 Resp: 41209
 Ion Ratio Lower Upper
 101 100
 103 50.2 52.1 78.1#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.031 ppbv

RT: 4.47 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

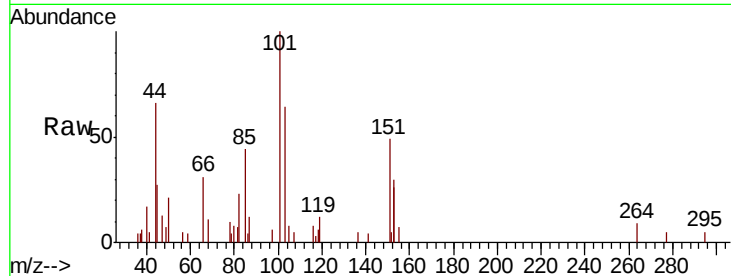
ClientSampleId :

Tot Ion:101 Resp: 3340

Ion Ratio Lower Upper

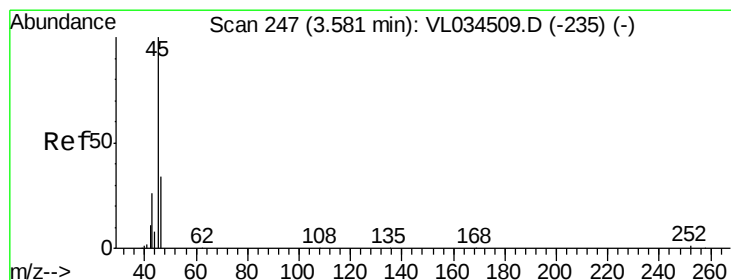
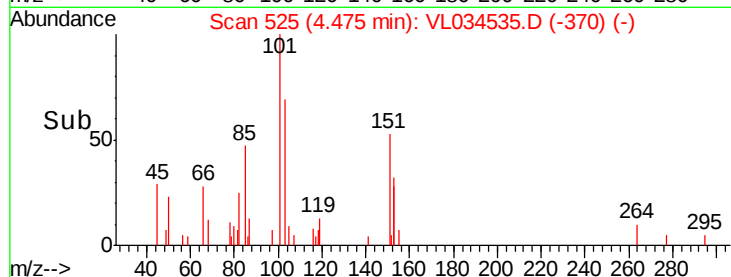
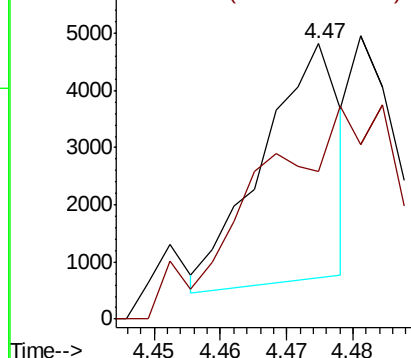
101 100

151 0.0 57.8 86.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 392.117 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.02 min

Lab File: VL034535.D

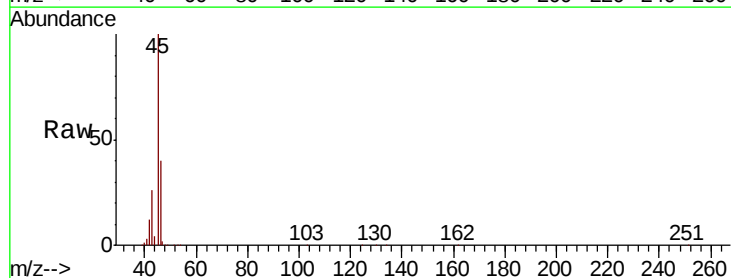
Acq: 31 Dec 2019 6:25

Tgt Ion: 45 Resp: 4630097

Ion Ratio Lower Upper

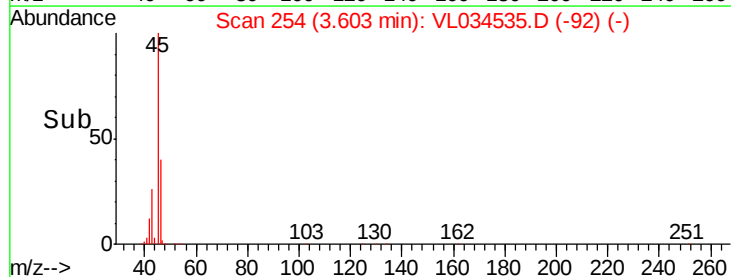
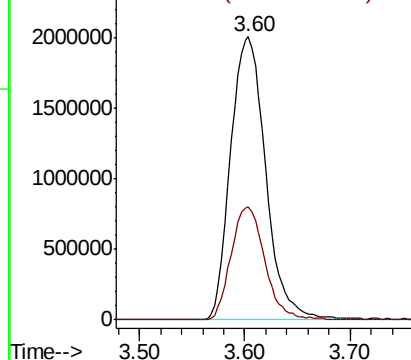
45 100

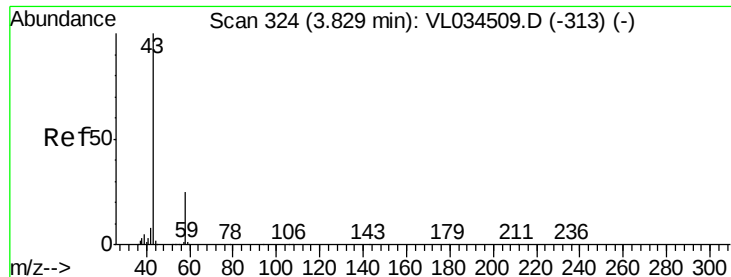
46 38.8 14.9 59.7



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 10.810 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

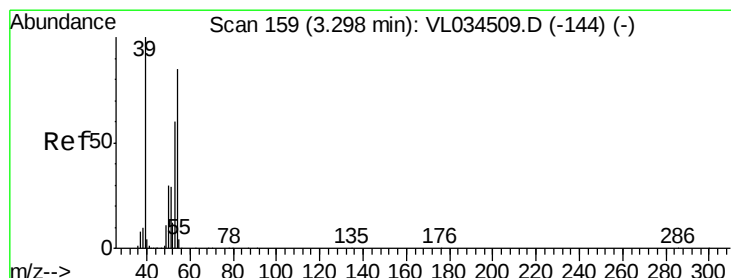
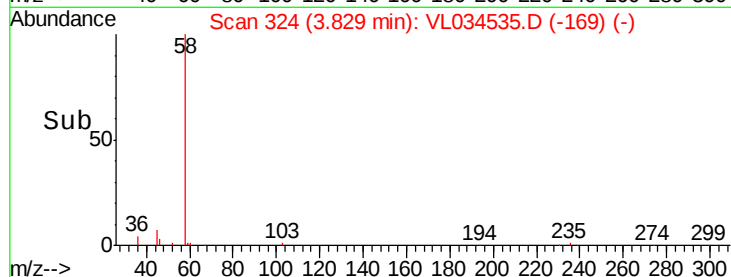
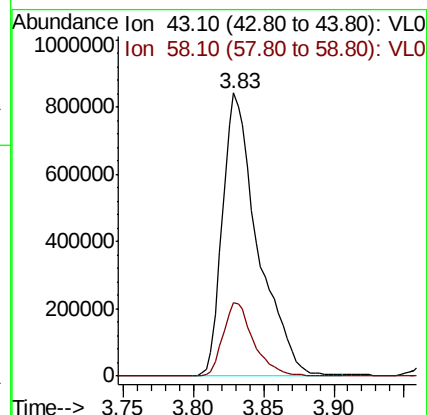
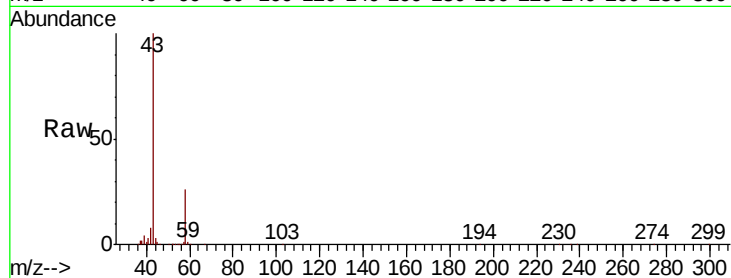
ClientSampleId :

Tot Ion: 43 Resp: 1461551

Ion Ratio Lower Upper

43 100

58 22.7 20.4 30.6



#16

1,3-Butadiene

Concen: 0.349 ppbv

RT: 3.28 min Scan# 153

Delta R.T. -0.02 min

Lab File: VL034535.D

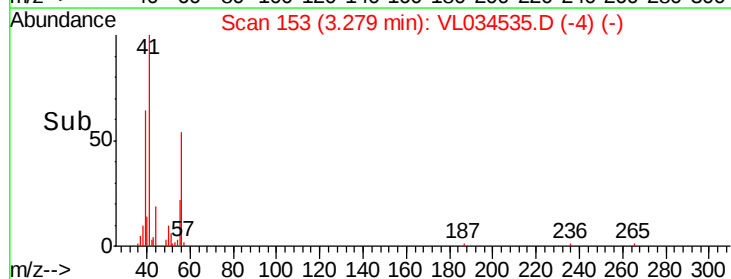
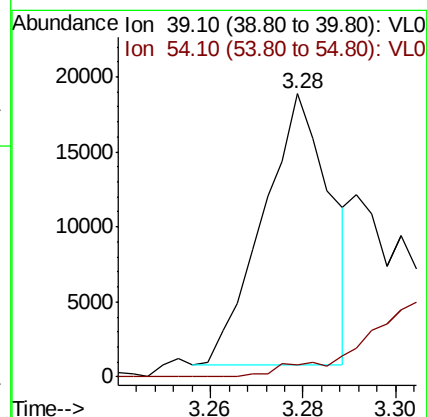
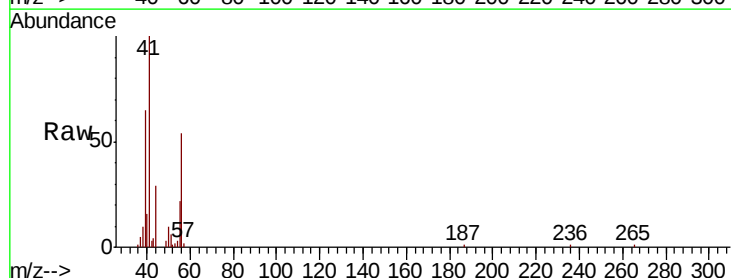
Acq: 31 Dec 2019 6:25

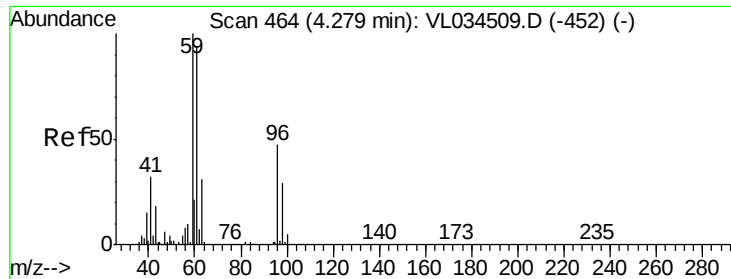
Tgt Ion: 39 Resp: 18127

Ion Ratio Lower Upper

39 100

54 0.0 66.2 99.2#



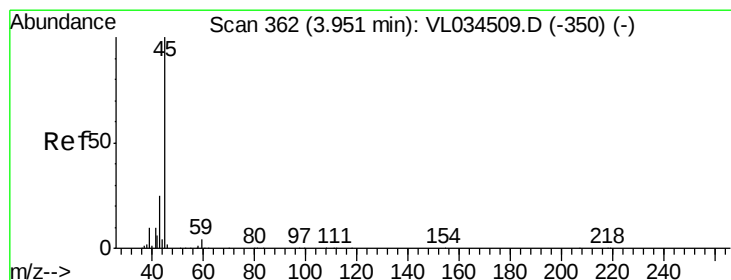
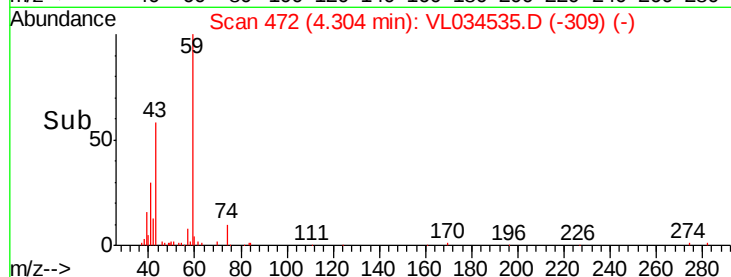
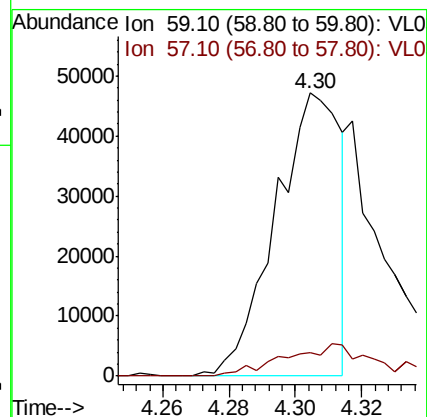
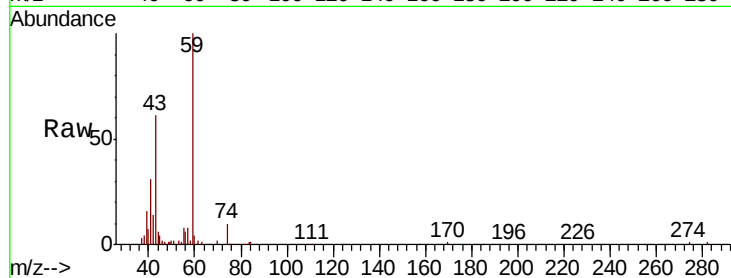


#17

tert-Butyl alcohol
 Concen: 0.595 ppbv
 RT: 4.30 min Scan# 472
 Delta R.T. 0.03 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

Instrument :
 MSVOA_L
 ClientSampleID :

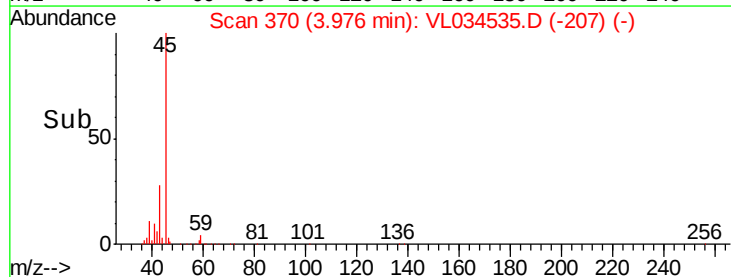
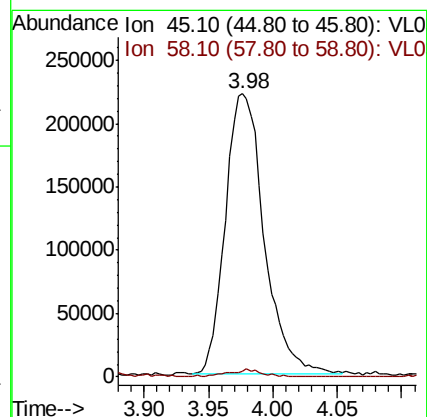
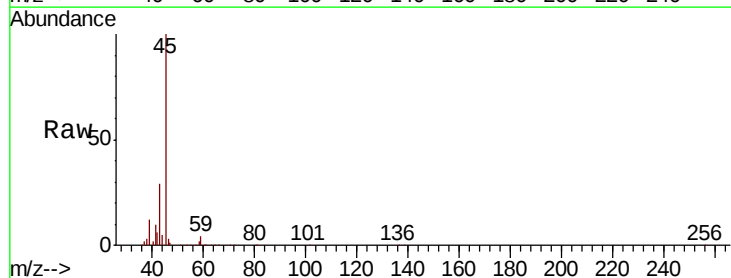
Tot Ion: 59 Resp: 64450
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#

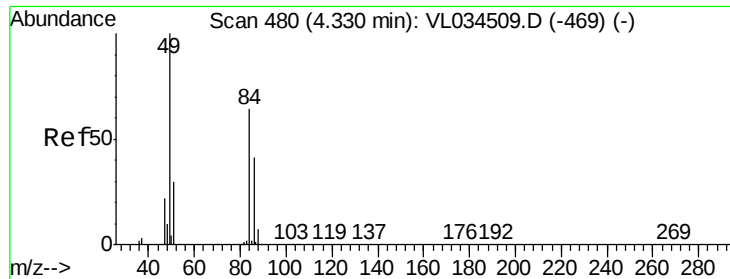


#19

Isopropyl Alcohol
 Concen: 5.280 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.03 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

Tgt Ion: 45 Resp: 462151
 Ion Ratio Lower Upper
 45 100
 58 2.5 1.4 2.0#

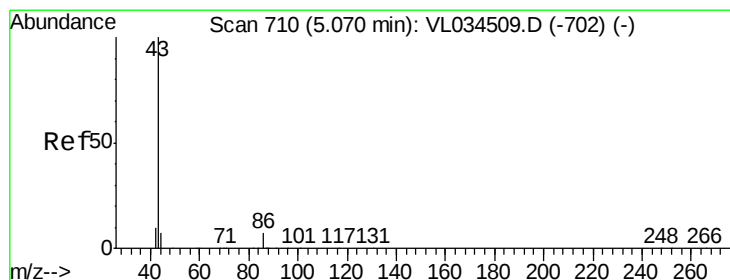
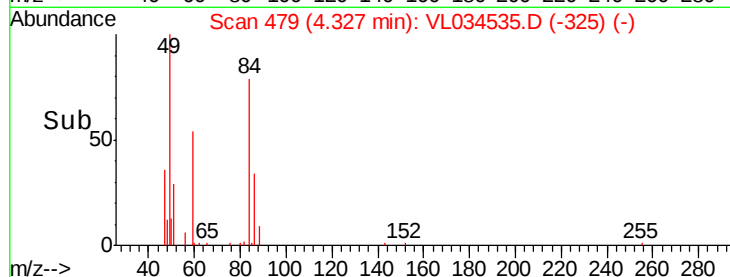
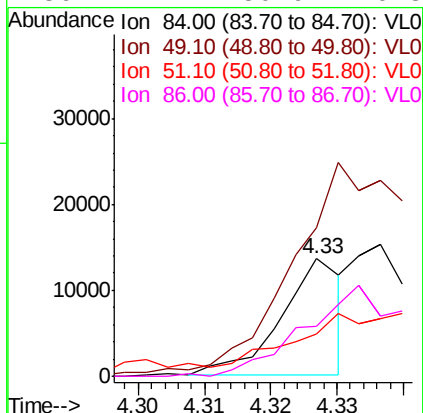
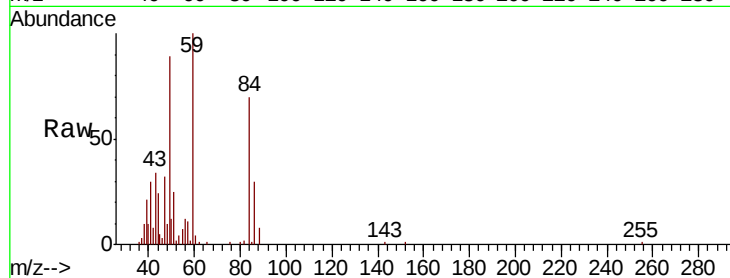




#20
Methvlene Chloride
Concen: 0.163 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

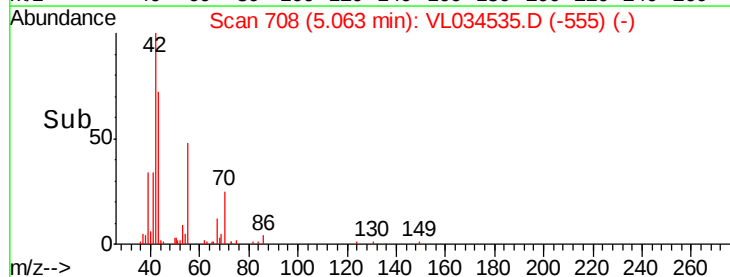
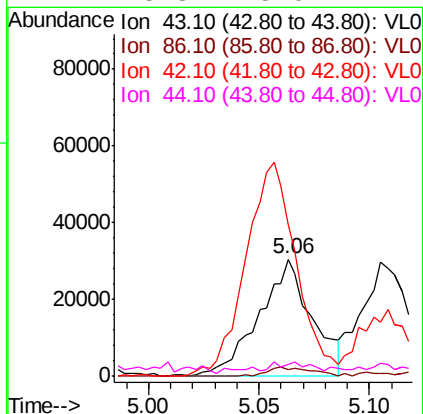
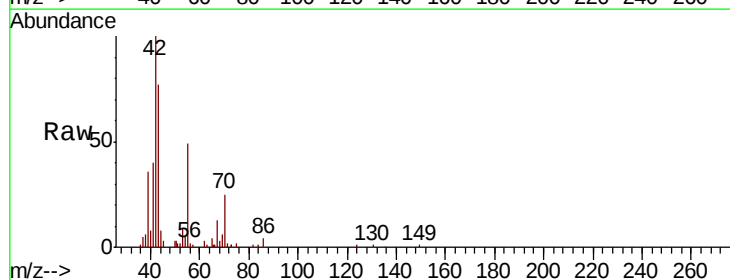
Instrument :
MSVOA_L
ClientSampled :

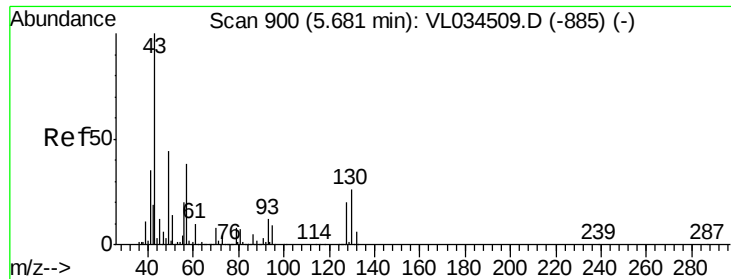
Tot Ion:	84	Resp:	8673
Ion	Ratio	Lower	Upper
84	100		
49	122.8	124.4	186.6#
51	25.1	37.0	55.6#
86	41.4	50.9	76.3#



#23
Vinyl Acetate
Concen: 0.318 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.01 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

Tgt Ion:	43	Resp:	49670
Ion	Ratio	Lower	Upper
43	100		
86	5.7	5.4	8.2
42	129.8	8.9	13.3#
44	3.3	5.0	7.4#





#25

Ethyl Acetate

Concen: 0.428 ppbv

RT: 5.69 min Scan# 902

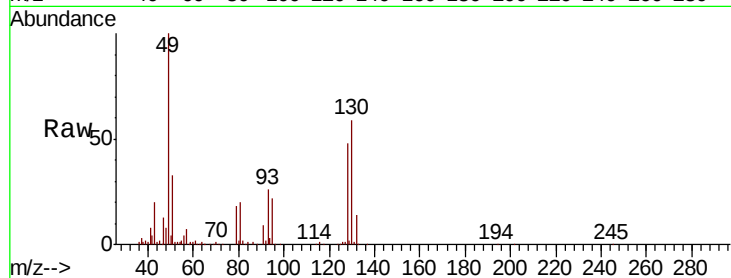
Delta R.T. 0.01 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	90294
Ion	Ratio	Lower	Upper
43	100		
45	15.3	8.3	12.5#
61	9.5	7.8	11.6
70	6.8	5.8	8.8



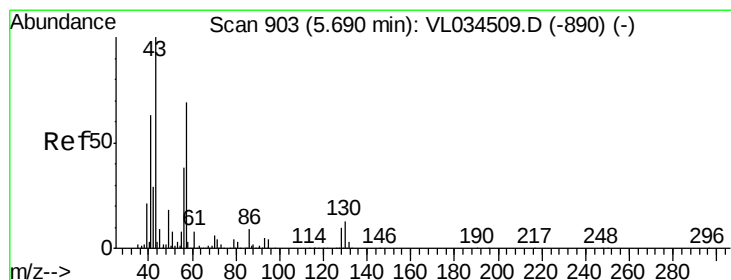
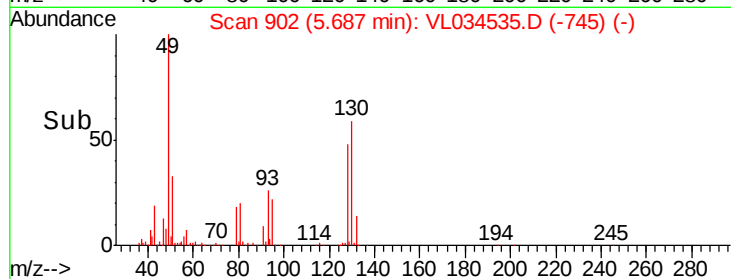
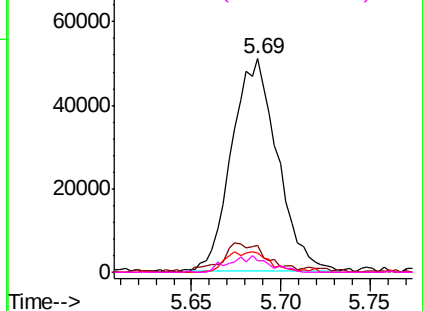
Abundance

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: 0.422 ppbv

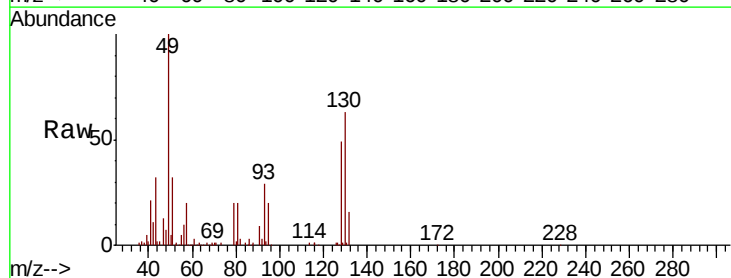
RT: 5.69 min Scan# 904

Delta R.T. 0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Tgt Ion:	57	Resp:	37506
Ion	Ratio	Lower	Upper
57	100		
41	108.5	75.3	112.9
43	251.7	189.4	284.2
56	57.6	42.8	64.2



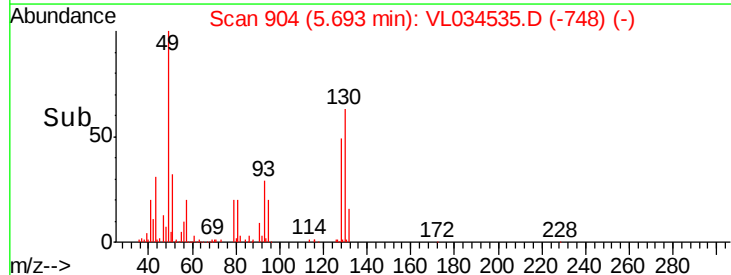
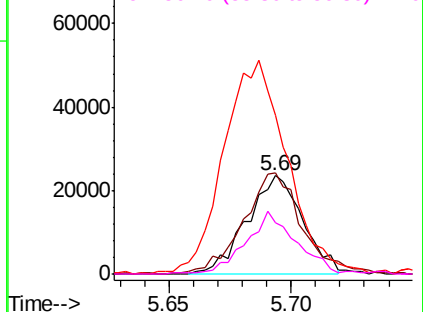
Abundance

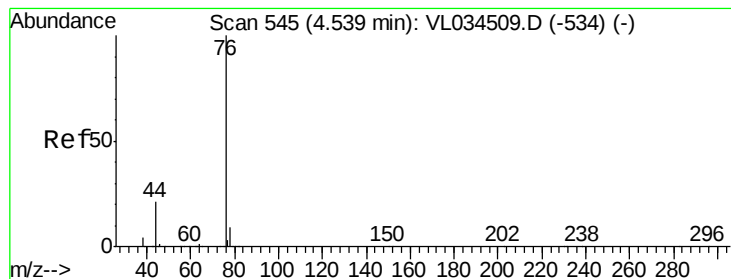
Ion 57.10 (56.80 to 57.80): VL0

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: 0.155 ppbv

RT: 4.55 min Scan# 547

Delta R.T. 0.01 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

ClientSampleId :

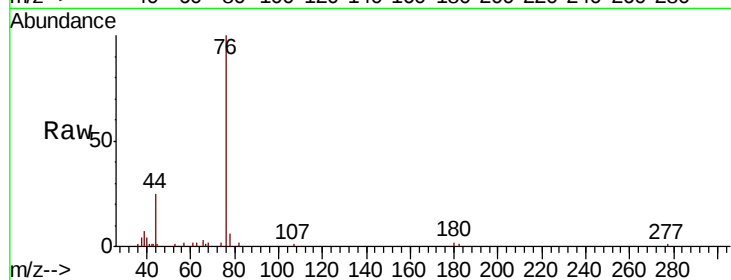
Tot Ion: 76 Resp: 17457

Ion Ratio Lower Upper

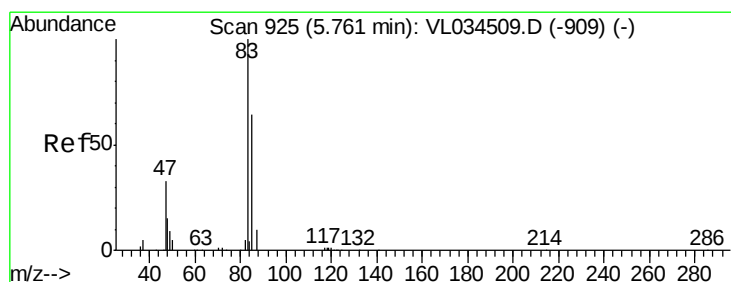
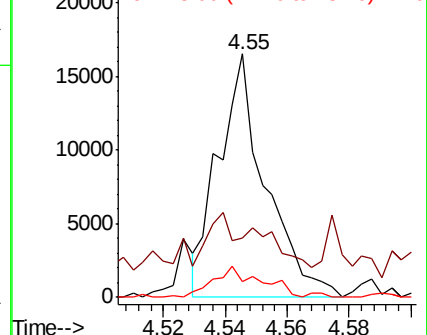
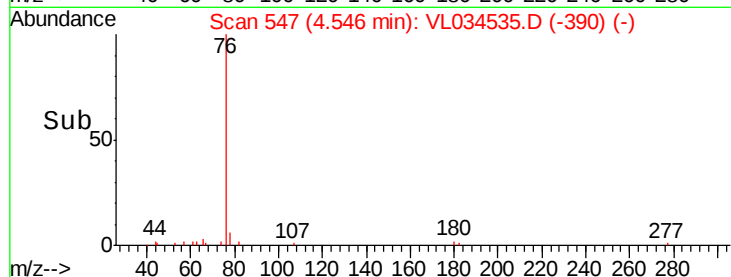
76 100

44 37.9 16.6 25.0#

78 14.8 7.4 11.0#



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



#29

Chloroform

Concen: 0.044 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.00 min

Lab File: VL034535.D

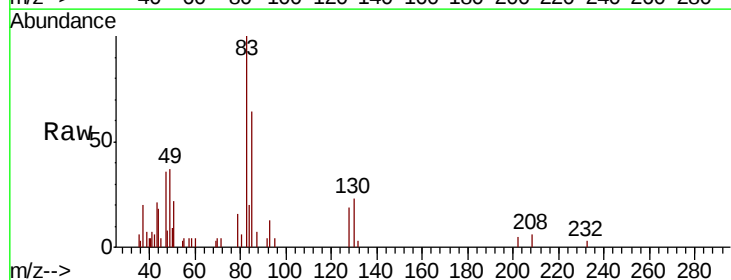
Acq: 31 Dec 2019 6:25

Tgt Ion: 83 Resp: 6812

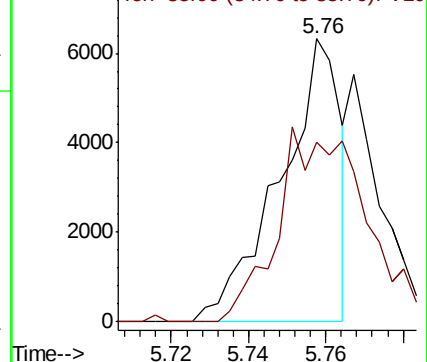
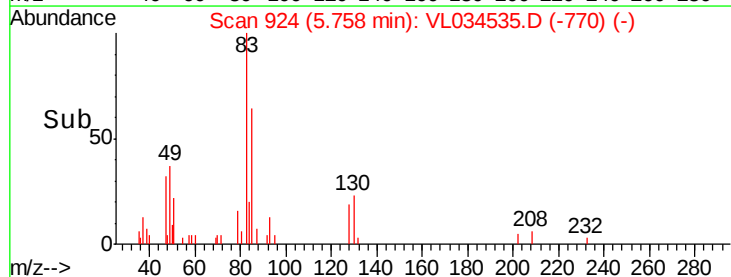
Ion Ratio Lower Upper

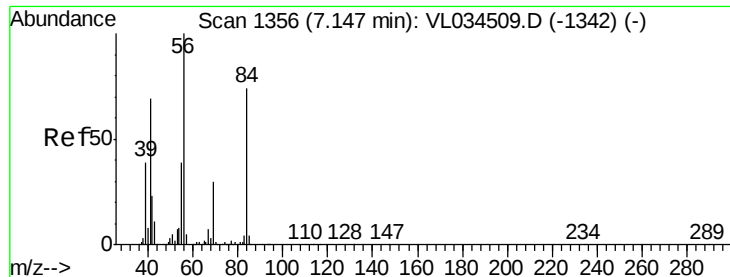
83 100

85 63.5 51.0 76.6



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

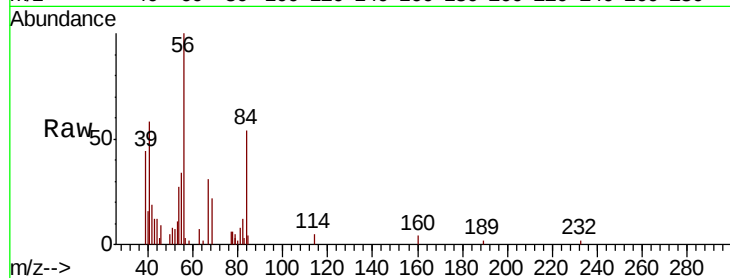




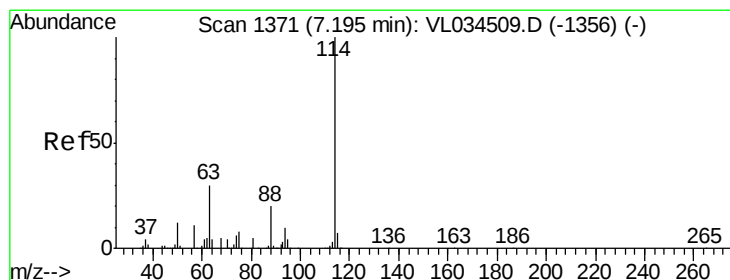
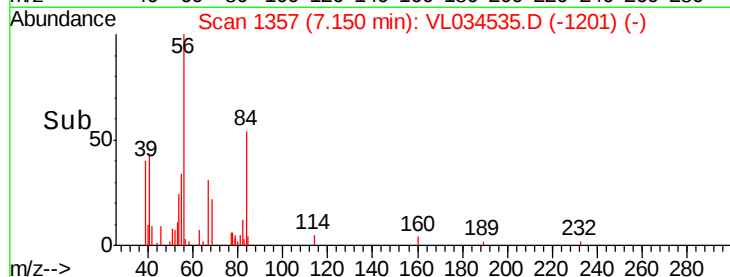
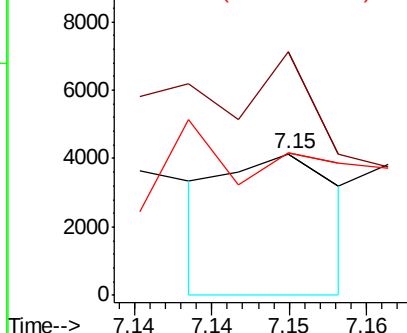
#30
Cvclohexane
Concen: 0.032 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 2108
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 0.0 73.0 109.4#

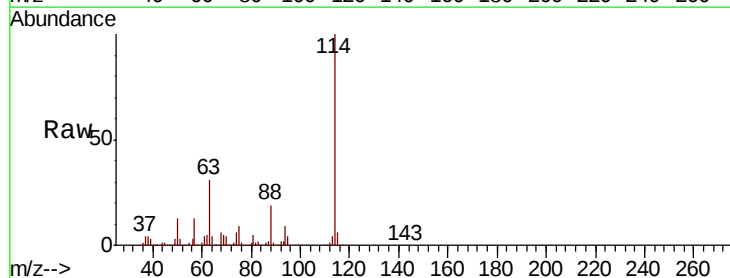


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

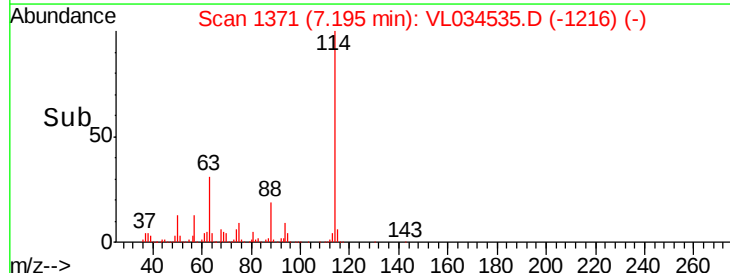
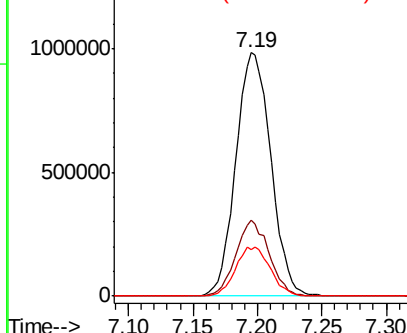


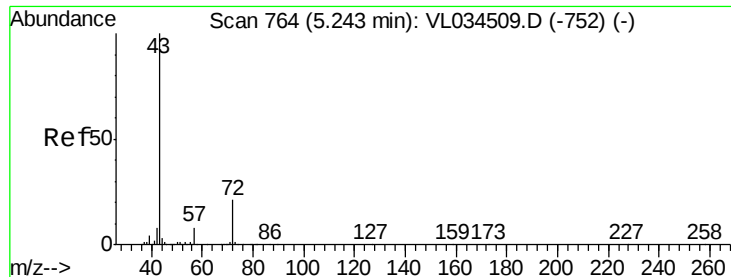
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. -0.00 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

Tgt Ion: 114 Resp: 1859403
Ion Ratio Lower Upper
114 100
63 29.6 24.1 36.1
88 19.9 15.7 23.5



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





#34

2-Butanone

Concen: 0.886 ppbv

RT: 5.25 min Scan# 766

Delta R.T. 0.01 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

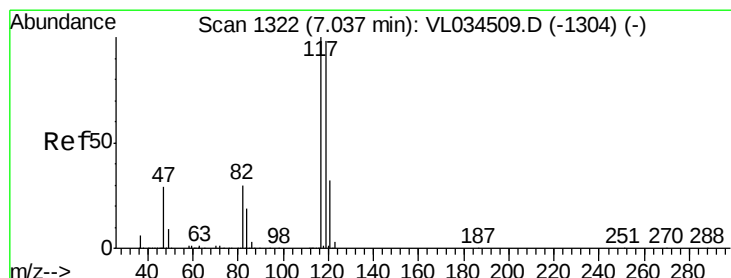
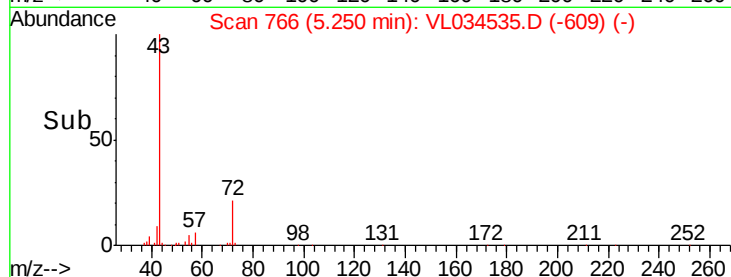
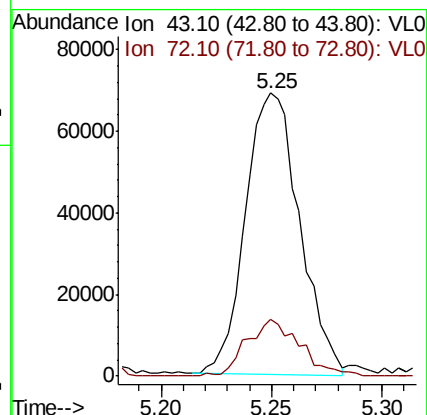
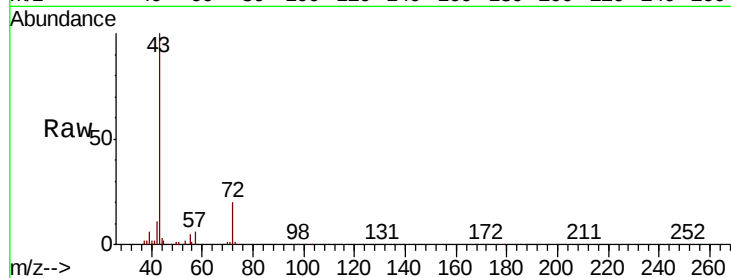
ClientSampleId :

Tot Ion: 43 Resp: 117691

Ion Ratio Lower Upper

43 100

72 20.1 17.0 25.4



#35

Carbon Tetrachloride

Concen: 0.050 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

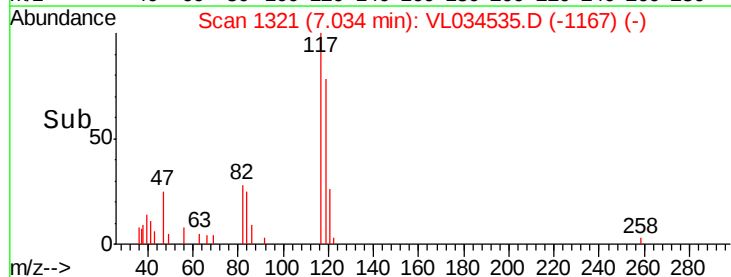
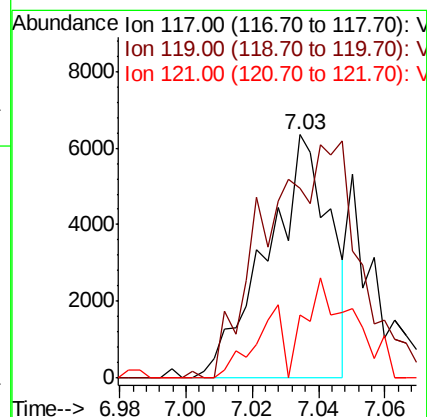
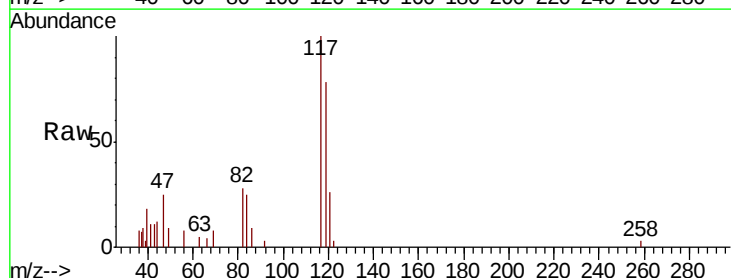
Tgt Ion: 117 Resp: 8398

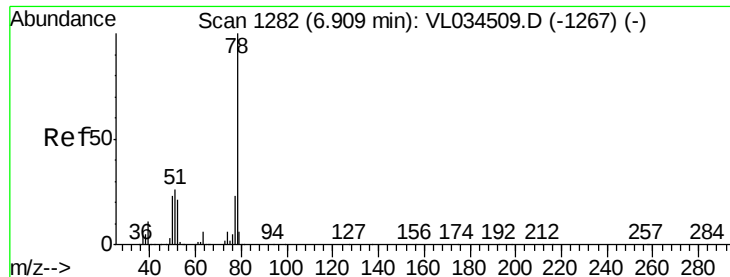
Ion Ratio Lower Upper

117 100

119 75.4 78.7 118.1#

121 26.1 25.9 38.9





#36

Benzene

Concen: 0.633 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

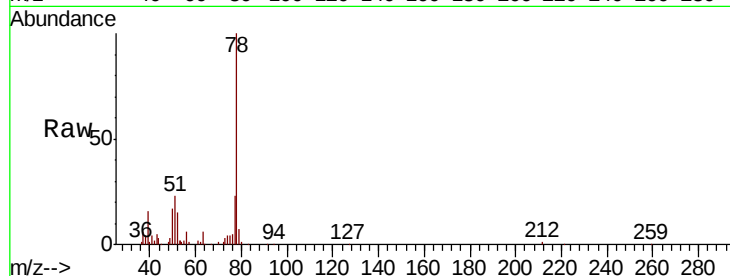
Instrument :

MSVOA_L

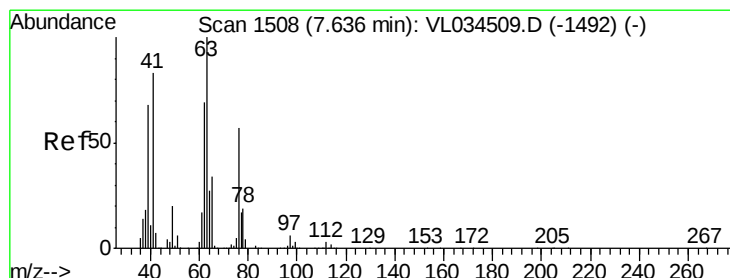
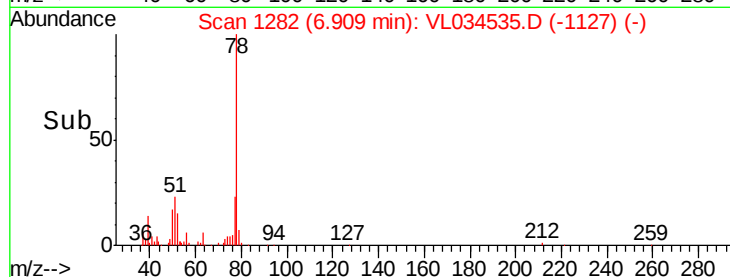
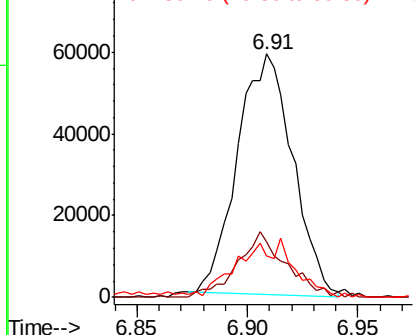
ClientSampleId :

Tot Ion: 78 Resp: 102525

Ion	Ratio	Lower	Upper
78	100		
77	21.6	18.6	28.0
50	16.8	18.8	28.2#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 8.133 ppbv

RT: 7.19 min Scan# 1371

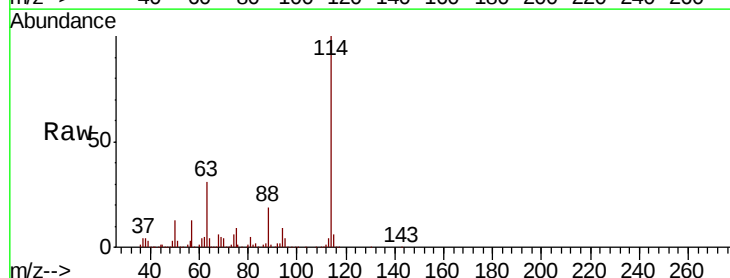
Delta R.T. -0.44 min

Lab File: VL034535.D

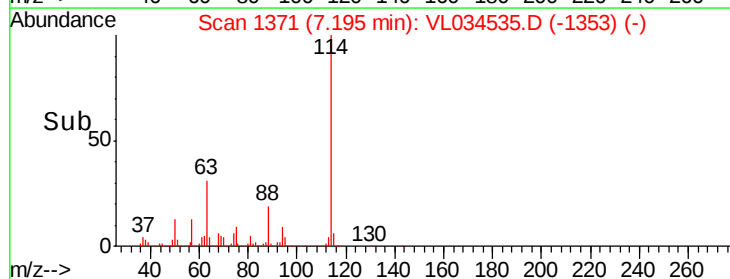
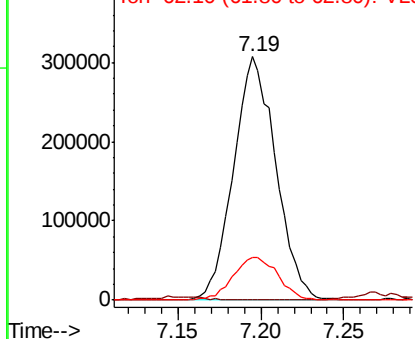
Acq: 31 Dec 2019 6:25

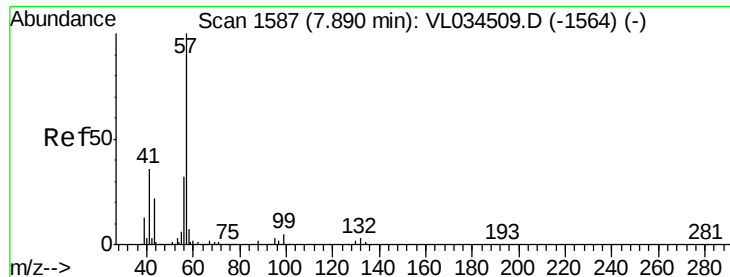
Tgt Ion: 63 Resp: 542075

Ion	Ratio	Lower	Upper
63	100		
41	0.0	66.1	99.1#
62	17.4	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

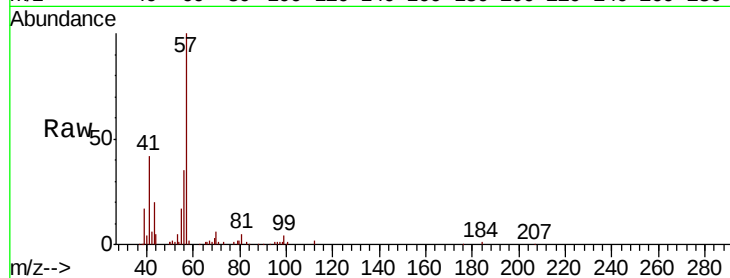




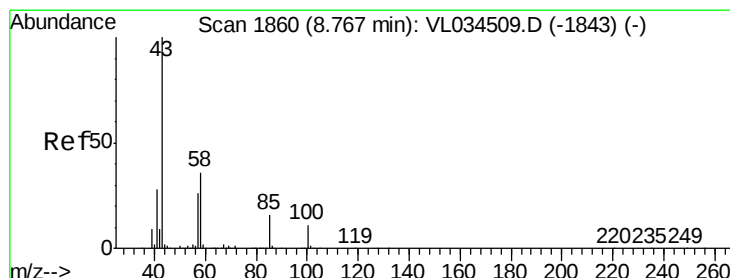
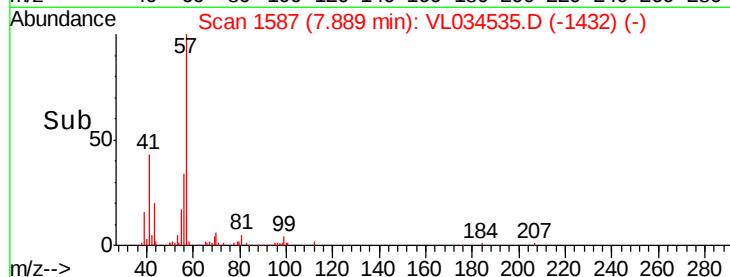
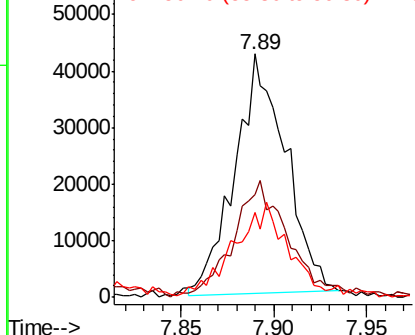
#44
 2,2,4-Trimethylpentane
 Concen: 0.268 ppbv
 RT: 7.89 min Scan# 1587
 Delta R.T. -0.00 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

Instrument :
 MSVOA_L
 ClientSampled :

Tot Ion	57	Resp	80316
Ion Ratio	100	Lower	Upper
41	53.6	29.0	43.4#
56	45.3	24.9	37.3#

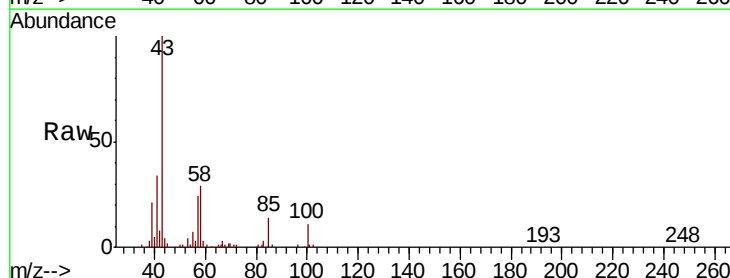


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

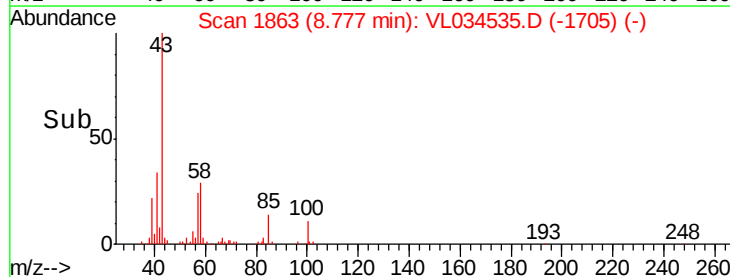
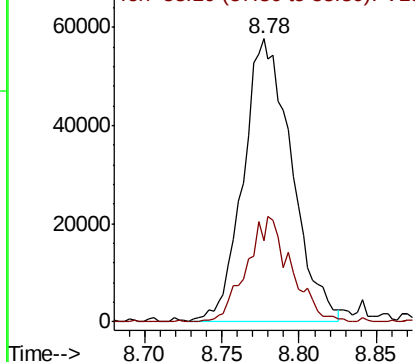


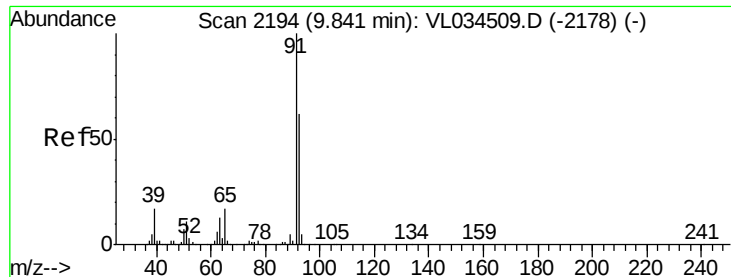
#50
 4-Methyl-2-Pentanone
 Concen: 0.646 ppbv
 RT: 8.78 min Scan# 1863
 Delta R.T. 0.01 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

Tgt Ion	43	Resp	124614
Ion Ratio	100	Lower	Upper
58	34.6	28.2	42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0





#53

Toluene

Concen: 1.725 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

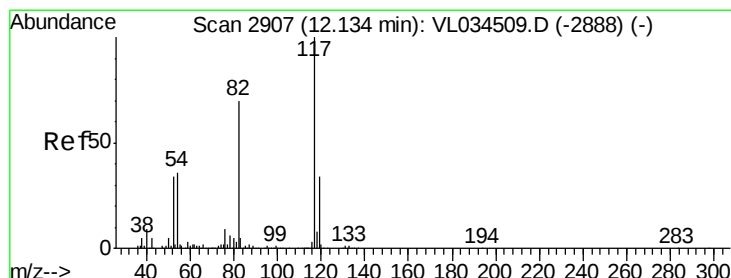
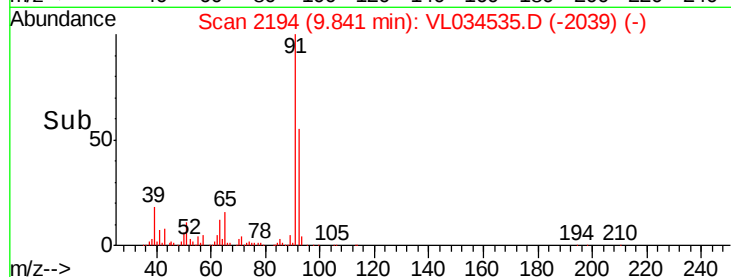
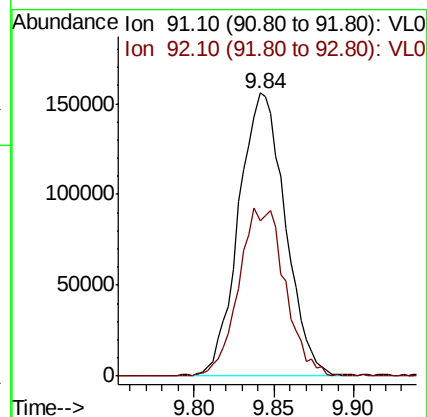
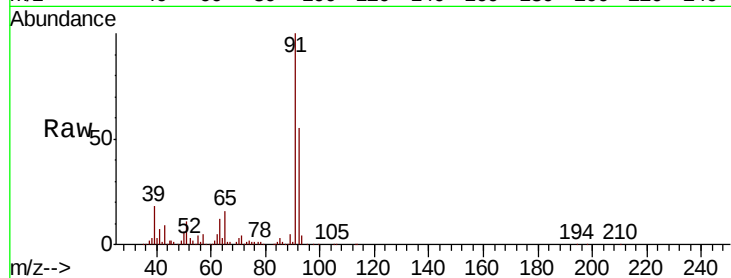
ClientSampleId :

Tot Ion: 91 Resp: 307200

Ion Ratio Lower Upper

91 100

92 59.7 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

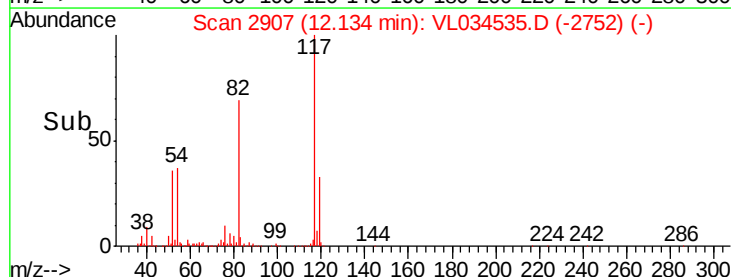
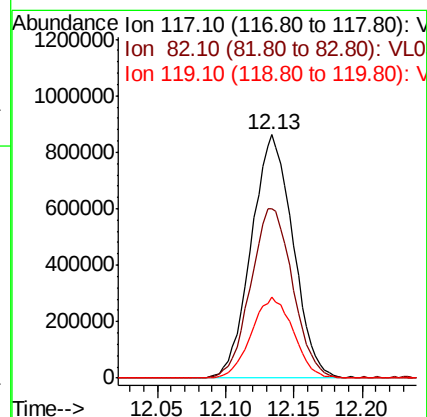
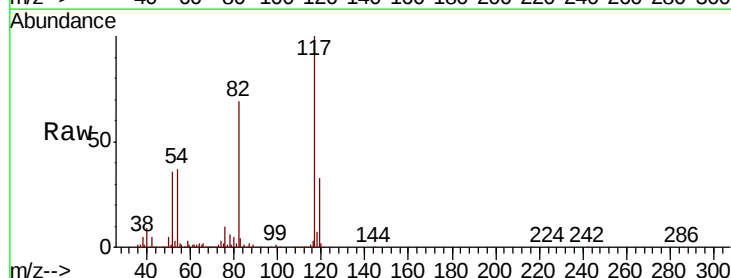
Tgt Ion: 117 Resp: 1828207

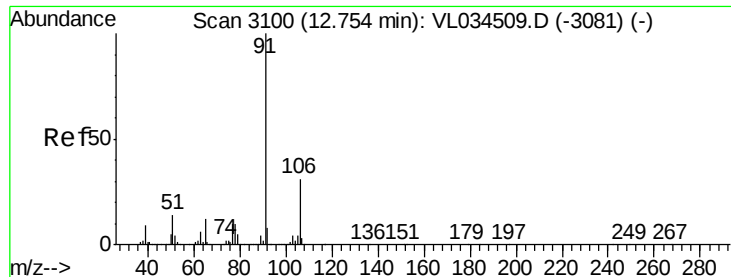
Ion Ratio Lower Upper

117 100

82 70.5 56.2 84.4

119 33.5 27.1 40.7

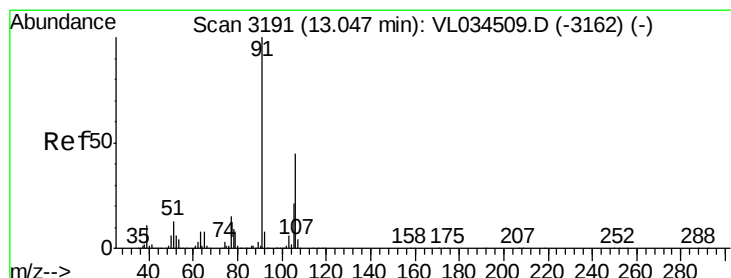
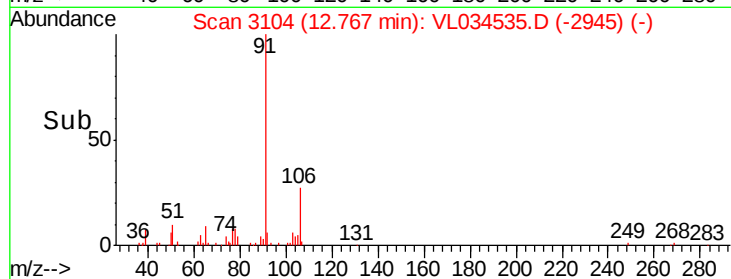
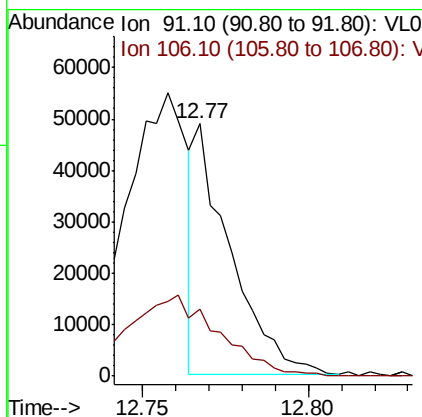
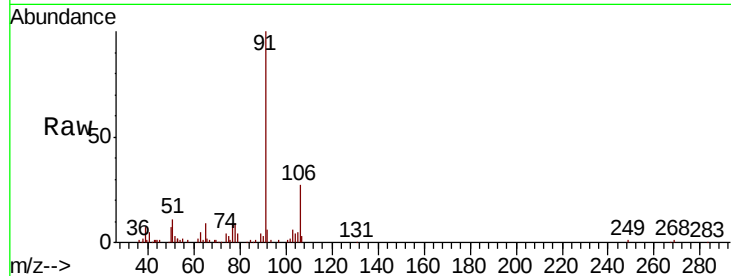




#58
Ethyl Benzene
Concen: 0.146 ppbv
RT: 12.77 min Scan# 3104
Delta R.T. 0.01 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

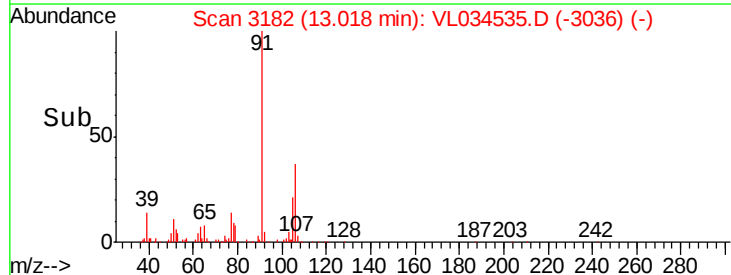
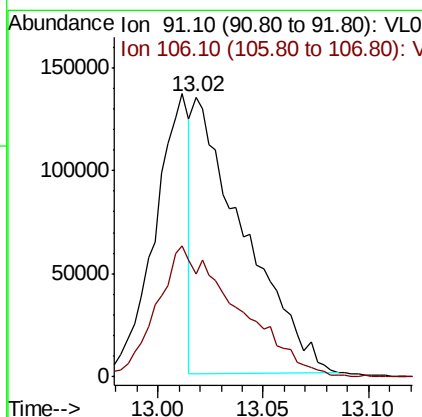
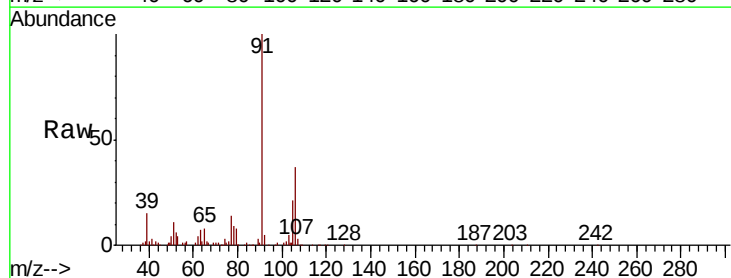
Instrument :
MSVOA_L
ClientSampled :

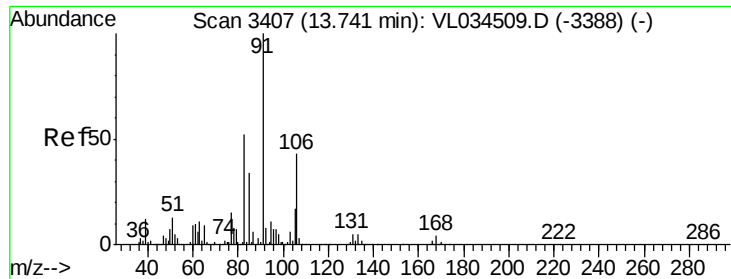
Tot Ion: 91 Resp: 35955
Ion Ratio Lower Upper
91 100
106 26.8 24.6 36.8



#59
m/p-Xylene
Concen: 1.045 ppbv
RT: 13.02 min Scan# 3182
Delta R.T. -0.03 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

Tgt Ion: 91 Resp: 225404
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#





#60

o-Xylene

Concen: 0.223 ppbv

RT: 13.73 min Scan# 3405

Delta R.T. -0.01 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

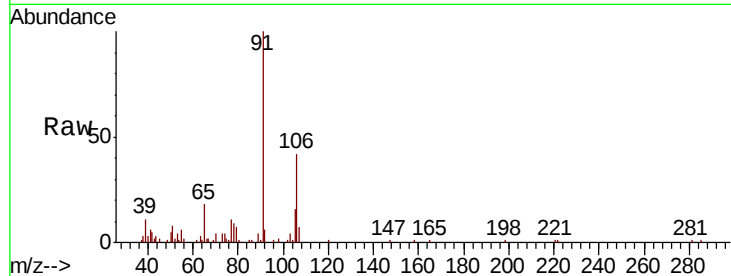
ClientSampled :

Tot Ion: 91 Resp: 48171

Ion Ratio Lower Upper

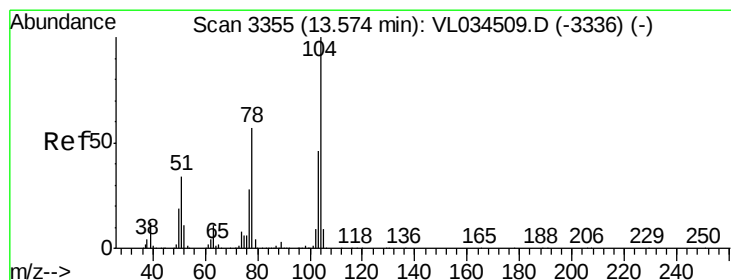
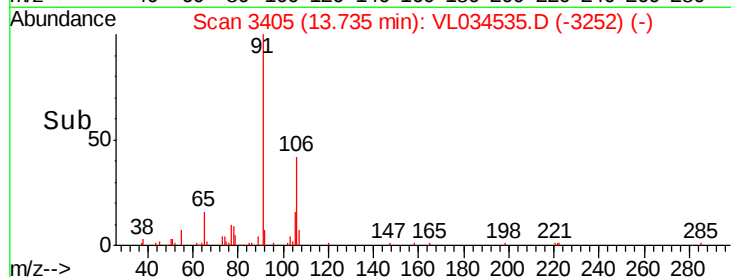
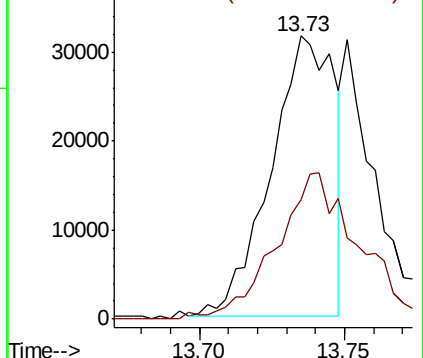
91 100

106 66.9 21.4 64.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.025 ppbv

RT: 13.58 min Scan# 3356

Delta R.T. 0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

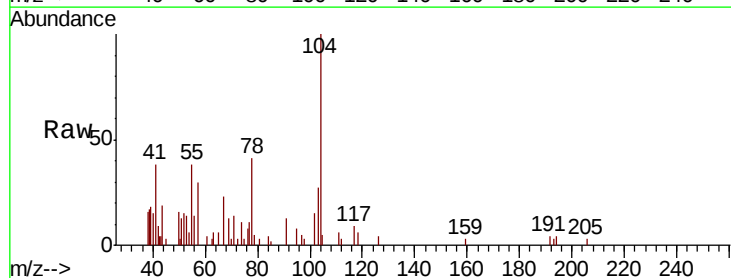
Tgt Ion: 104 Resp: 3651

Ion Ratio Lower Upper

104 100

78 0.0 47.7 71.5#

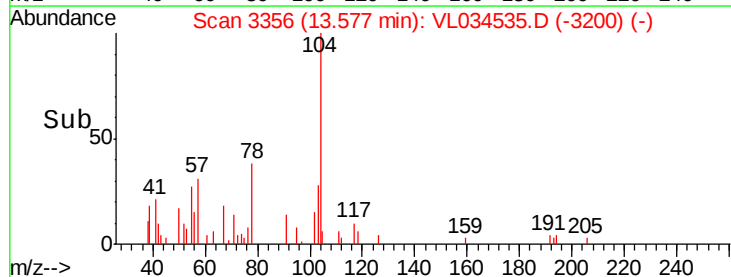
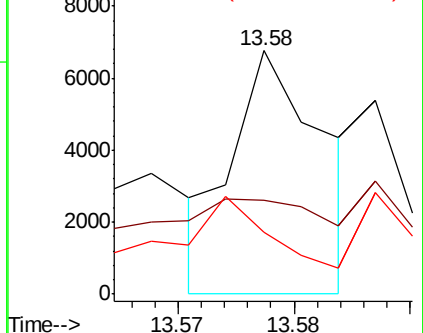
103 0.0 38.6 58.0#

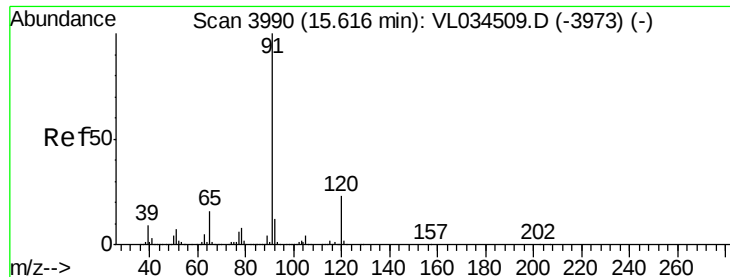


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

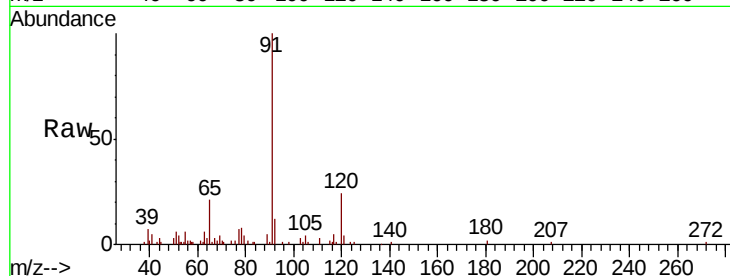




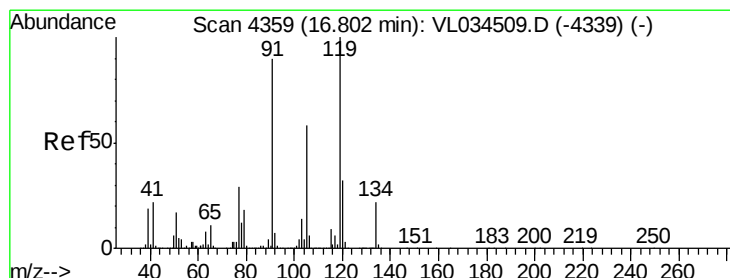
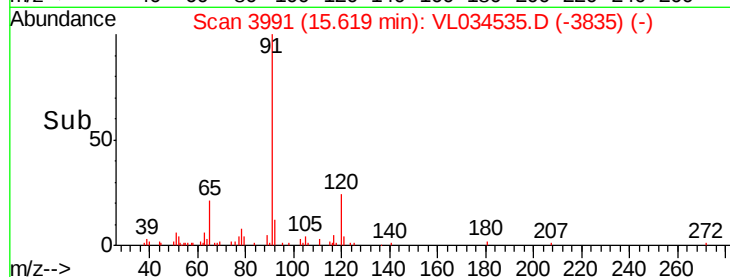
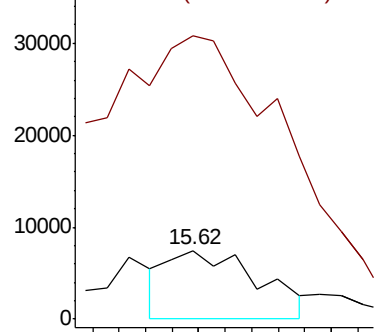
#64
n-propylbenzene
Concen: 0.097 ppbv
RT: 15.62 min Scan# 3991
Delta R.T. 0.00 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:120 Resp: 7003
Ion Ratio Lower Upper
120 100
91 1040.4 375.6 563.4#

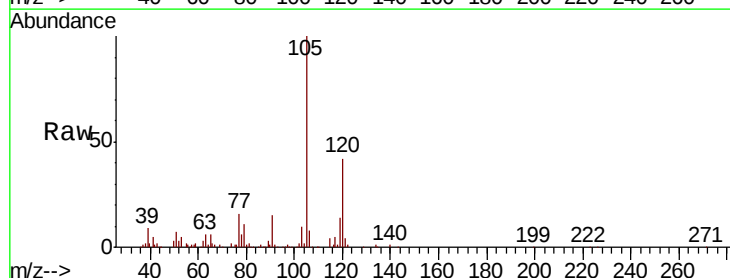


Abundance Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0

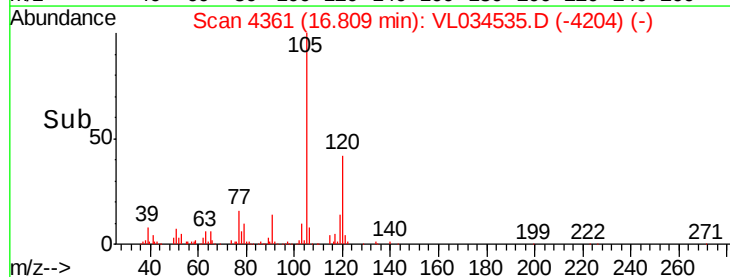
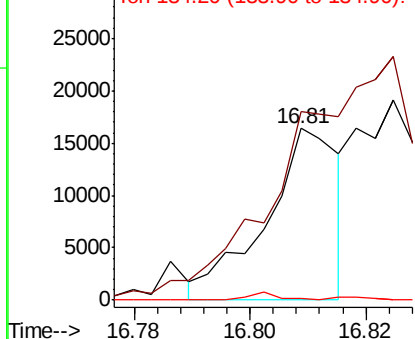


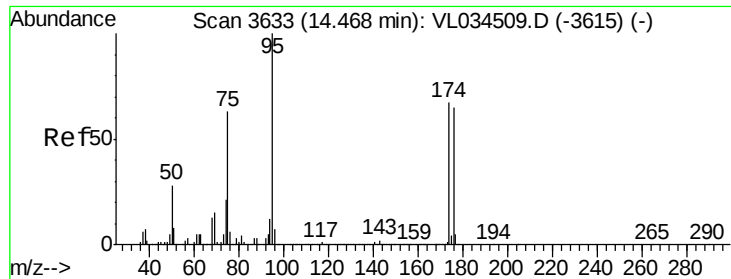
#65
tert-Butylbenzene
Concen: 0.056 ppbv
RT: 16.81 min Scan# 4361
Delta R.T. 0.01 min
Lab File: VL034535.D
Acq: 31 Dec 2019 6:25

Tgt Ion:119 Resp: 14303
Ion Ratio Lower Upper
119 100
91 0.0 72.0 108.0#
134 1.9 16.1 24.1#



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

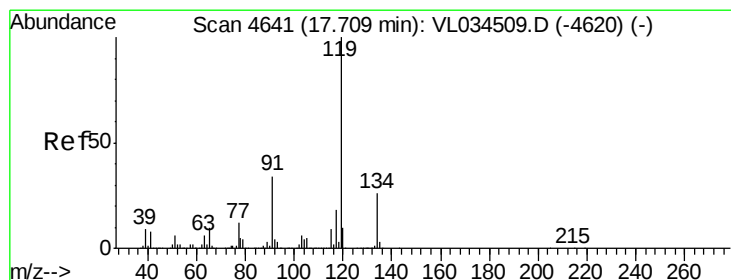
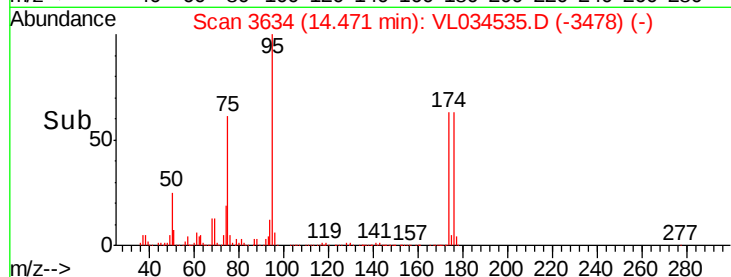
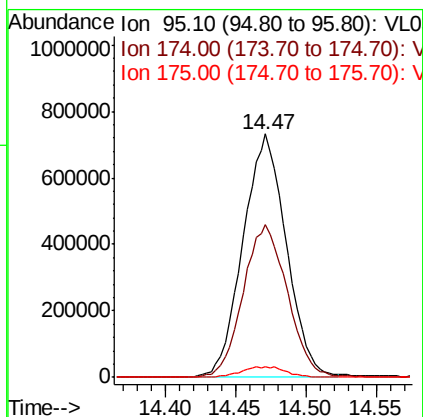
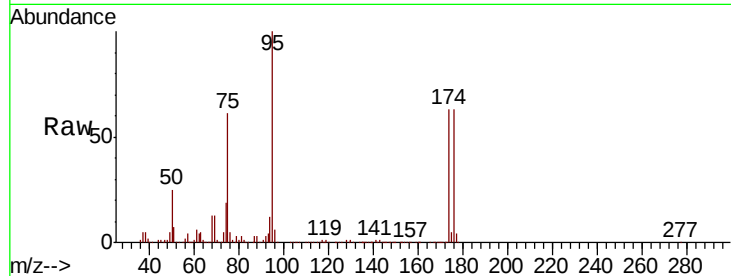




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.293 ppbv
 RT: 14.47 min Scan# 3634
 Delta R.T. 0.00 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

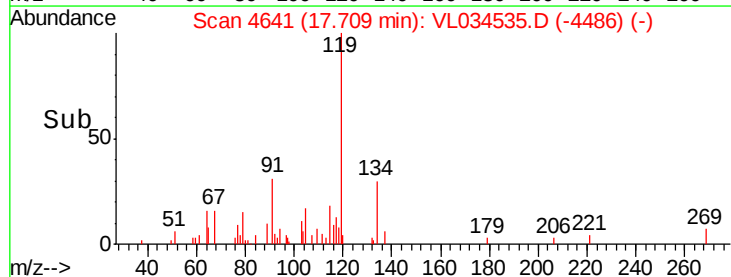
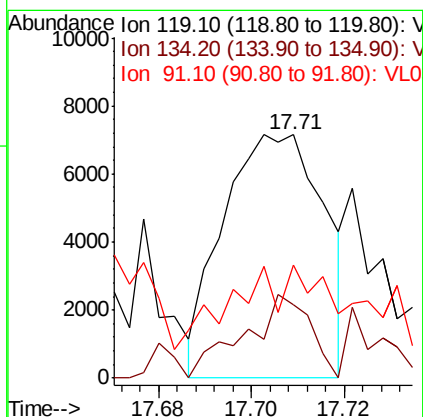
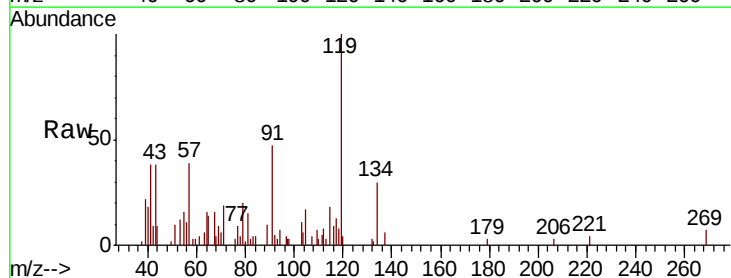
Instrument :
 MSVOA_L
 ClientSampleId :

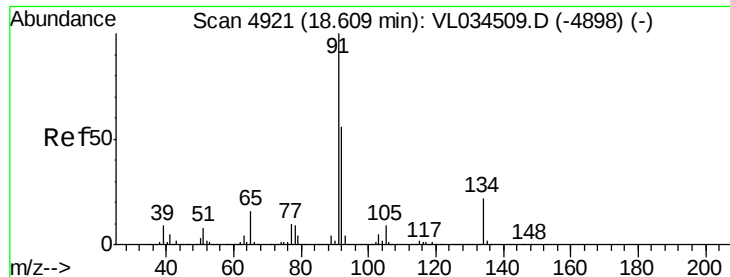
Tot Ion: 95 Resp: 1570262
 Ion Ratio Lower Upper
 95 100
 174 64.4 52.4 78.6
 175 4.7 3.9 5.9



#69
 p-Isopropyltoluene
 Concen: 0.037 ppbv
 RT: 17.71 min Scan# 4641
 Delta R.T. -0.00 min
 Lab File: VL034535.D
 Acq: 31 Dec 2019 6:25

Tgt Ion: 119 Resp: 10827
 Ion Ratio Lower Upper
 119 100
 134 37.8 20.7 31.1#
 91 55.2 26.6 39.8#





#70

n-Butylbenzene

Concen: 0.031 ppbv

RT: 18.60 min Scan# 4918

Delta R.T. -0.01 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

ClientSampled :

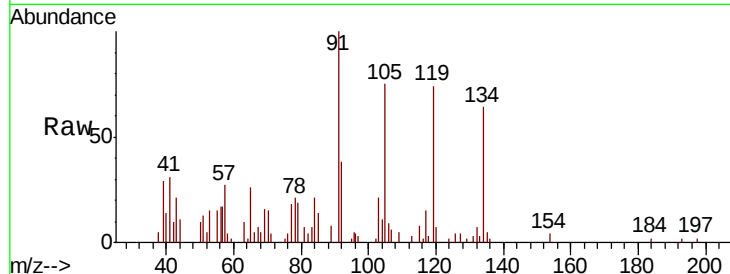
Tot Ion: 91 Resp: 9882

Ion Ratio Lower Upper

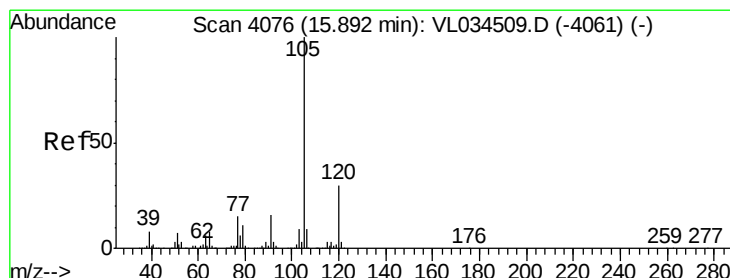
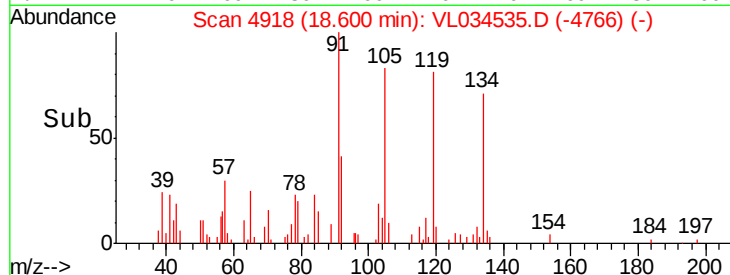
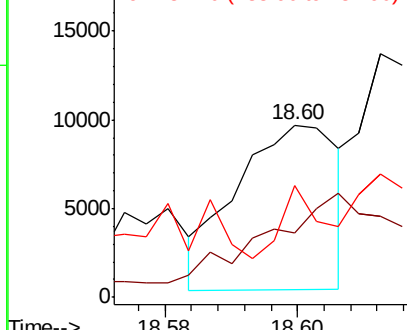
91 100

92 155.3 43.8 65.6#

134 0.0 18.0 27.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0
Ion 134.20 (133.90 to 134.90): VL0



#72

4-Ethyltoluene

Concen: 0.410 ppbv

RT: 15.89 min Scan# 4076

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Tgt Ion: 105 Resp: 99346

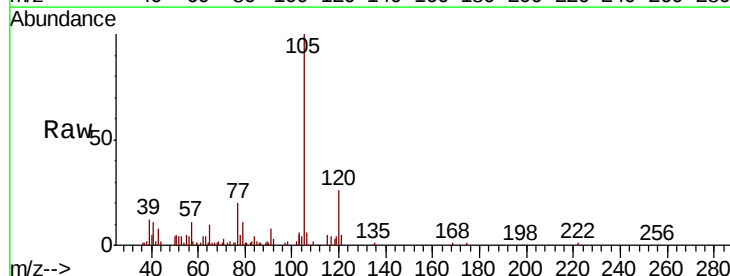
Ion Ratio Lower Upper

105 100

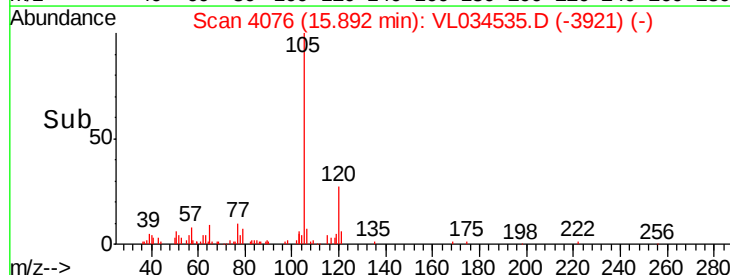
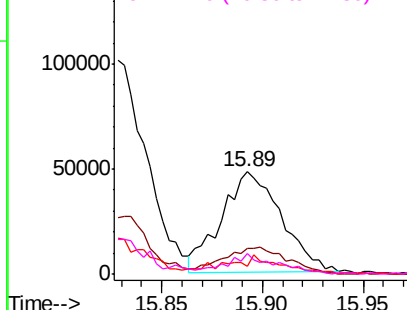
120 28.4 23.7 35.5

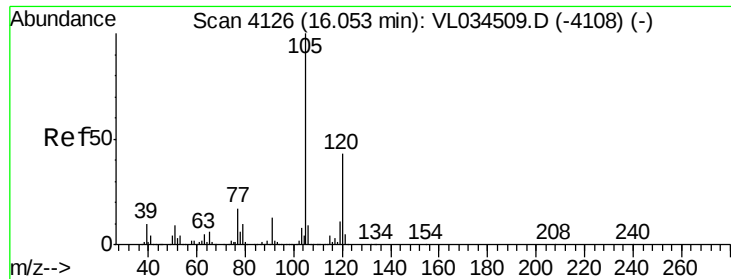
91 16.8 11.5 17.3

77 17.2 12.7 19.1



Abundance Ion 105.10 (104.80 to 105.80): VL0
Ion 120.20 (119.90 to 120.90): VL0
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 0.410 ppbv

RT: 16.05 min Scan# 4126

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

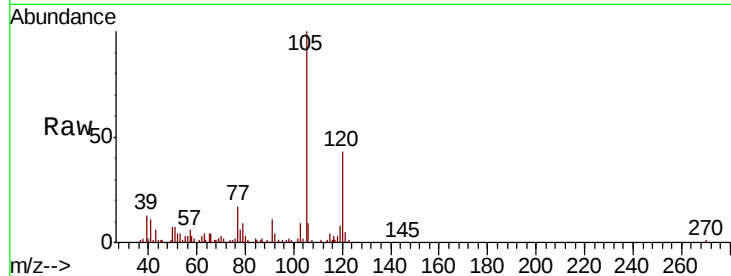
ClientSampleId :

Tot Ion:105 Resp: 97375

Ion Ratio Lower Upper

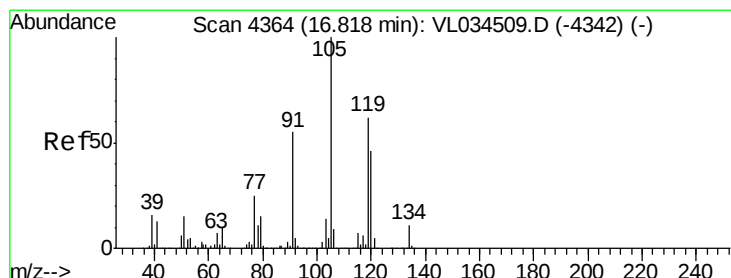
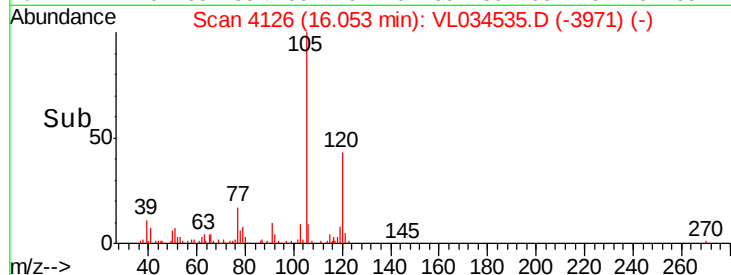
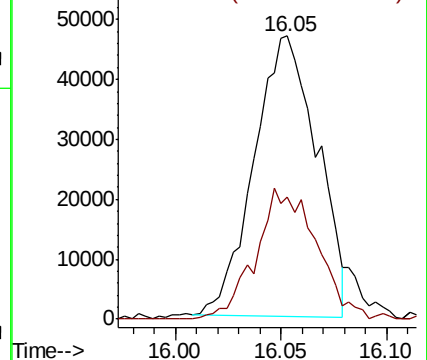
105 100

120 43.7 34.6 52.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.338 ppbv

RT: 16.82 min Scan# 4365

Delta R.T. 0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Tgt Ion:105 Resp: 339916

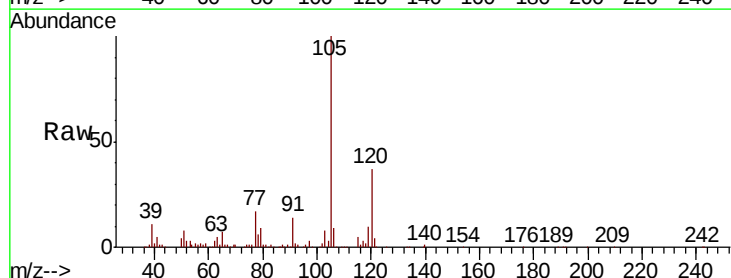
Ion Ratio Lower Upper

105 100

120 37.0 36.7 55.1

91 13.6 44.0 66.0#

77 16.6 19.9 29.9#

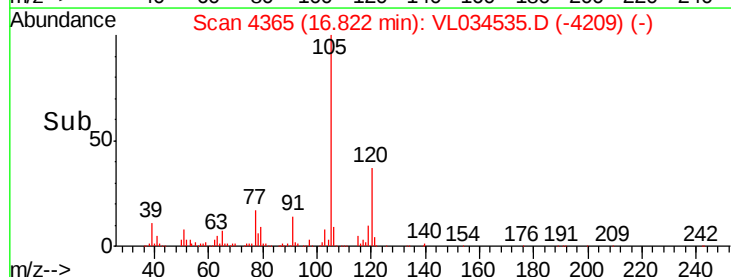
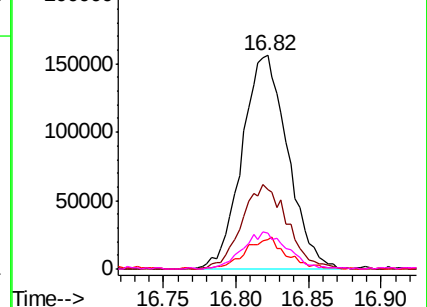


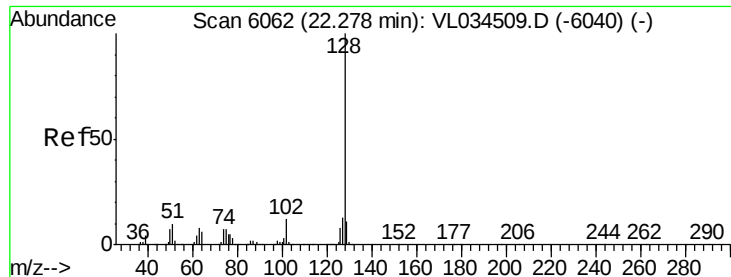
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#79

Naphthalene

Concen: 0.074 ppbv

RT: 22.28 min Scan# 6062

Delta R.T. -0.00 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

Instrument :

MSVOA_L

ClientSampled :

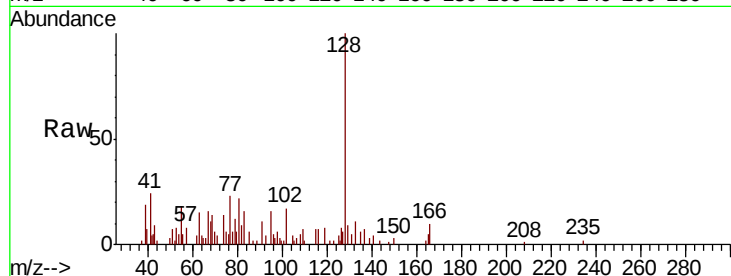
Tot Ion:128 Resp: 14244

Ion Ratio Lower Upper

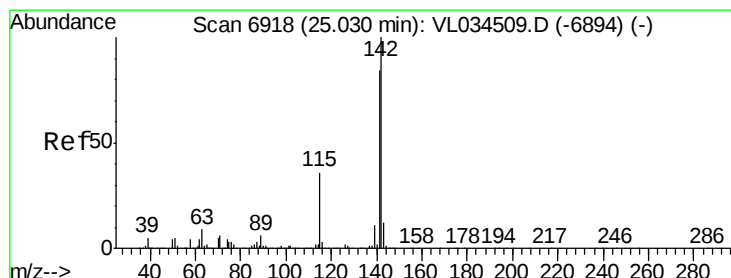
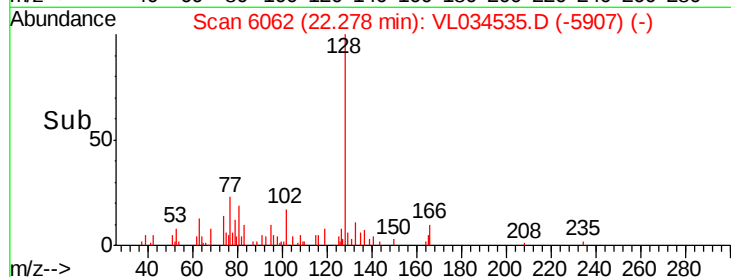
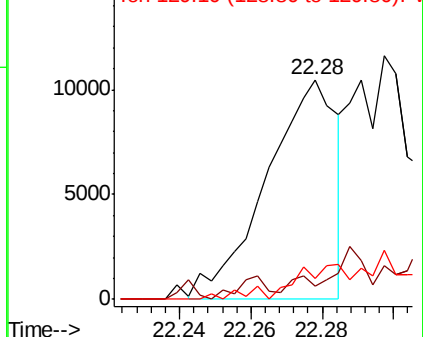
128 100

127 0.0 10.6 15.8#

129 9.5 8.7 13.1



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.087 ppbv

RT: 25.04 min Scan# 6921

Delta R.T. 0.01 min

Lab File: VL034535.D

Acq: 31 Dec 2019 6:25

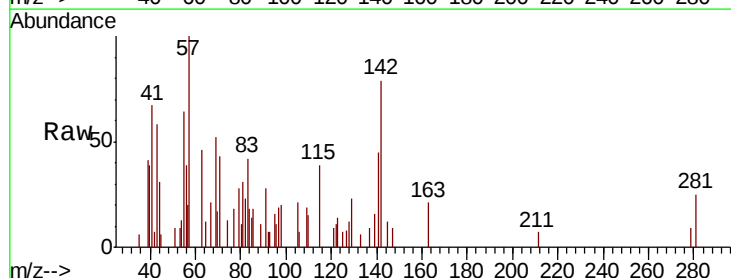
Tgt Ion:142 Resp: 4629

Ion Ratio Lower Upper

142 100

141 82.2 65.8 98.8

115 11.6 30.4 45.6#



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

