

Data File : VL034866.D
Acq On : 10 Mar 2020 15:01
Operator : SY/AP
Sample : L1861-01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
O-1

Quant Time: Mar 11 05:51:04 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	803999	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2016045	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.11	117	2019785	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1618765	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds

						Qvalue
3) Chlorodifluoromethane	2.94	51	33119	0.369	ppbv	96
4) Chloromethane	3.10	50	48194	0.949	ppbv #	86
5) Vinyl Chloride	3.22	62	2155	0.044	ppbv	95
7) Chloroethane	3.52	64	2198	0.125	ppbv	90
9) Propene	2.97	41	8921171	208.048	ppbv	89
10) Heptane	8.15	43	8131041	77.047	ppbv	92
11) Trichlorofluoromethane	3.93	101	31245	0.267	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5015	0.061	ppbv #	56
13) Ethanol	3.59	45	6751446	517.885	ppbv	98
15) Acetone	3.82	43	9643906	92.547	ppbv #	31
16) 1,3-Butadiene	3.31	39	7673365	162.837	ppbv #	11
17) tert-Butyl alcohol	4.29	59	2554568	25.445	ppbv #	72
19) Isopropyl Alcohol	3.96	45	1360076	20.668	ppbv #	85
20) Methylene Chloride	4.33	84	226400	6.872	ppbv #	89
21) Allyl Chloride	4.36	41	1733280	25.899	ppbv #	59
23) Vinyl Acetate	5.06	43	5341519	34.701	ppbv #	1
24) 1,1-Dichloroethane	5.05	63	13722	0.133	ppbv #	90
25) Ethyl Acetate	5.71	43	11570385	62.323	ppbv #	77
26) Hexane	5.71	57	13661276	170.885	ppbv #	40
27) Carbon Disulfide	4.54	76	52642	0.580	ppbv #	70
28) Methyl tert-Butyl Ether	5.02	73	4240	0.032	ppbv #	53
29) Chloroform	5.76	83	9579	0.079	ppbv #	40
30) Cyclohexane	7.15	84	176643	2.648	ppbv #	1
31) cis-1,2-Dichloroethene	5.55	61	1988	0.024	ppbv #	55
32) 1,1,1-Trichloroethane	6.53	97	17360	0.146	ppbv #	81
34) 2-Butanone	5.24	43	825633	6.163	ppbv	99
35) Carbon Tetrachloride	7.04	117	5553	0.044	ppbv	97
36) Benzene	6.91	78	395643	2.202	ppbv #	90
37) 1,2-Dichloroethane	6.31	62	2562	0.025	ppbv #	81
38) Trichloroethene	7.86	130	3263	0.048	ppbv #	63
39) 1,2-Dichloropropane	7.52	63	18219	0.256	ppbv #	1
40) 1,4-Dioxane	7.85	88	1024	0.038	ppbv #	1
41) Tetrahydrofuran	5.99	42	873573	12.050	ppbv #	38
42) Bromodichloromethane	7.82	83	243710	1.765	ppbv #	26
43) Methyl Methacrylate	8.01	69	165414	2.185	ppbv #	1
44) 2,2,4-Trimethylpentane	7.89	57	991991	3.267	ppbv #	3
47) 1,1,2-Trichloroethane	9.50	97	2454	0.034	ppbv #	1
50) 4-Methyl-2-Pentanone	8.76	43	14682	0.076	ppbv #	1
51) 2-Hexanone	10.14	43	1210178	7.721	ppbv #	32
52) Tetrachloroethene	11.26	164	29572	0.416	ppbv	92
53) Toluene	9.83	91	2408954	11.609	ppbv	100

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ClientSampleId :
O-1

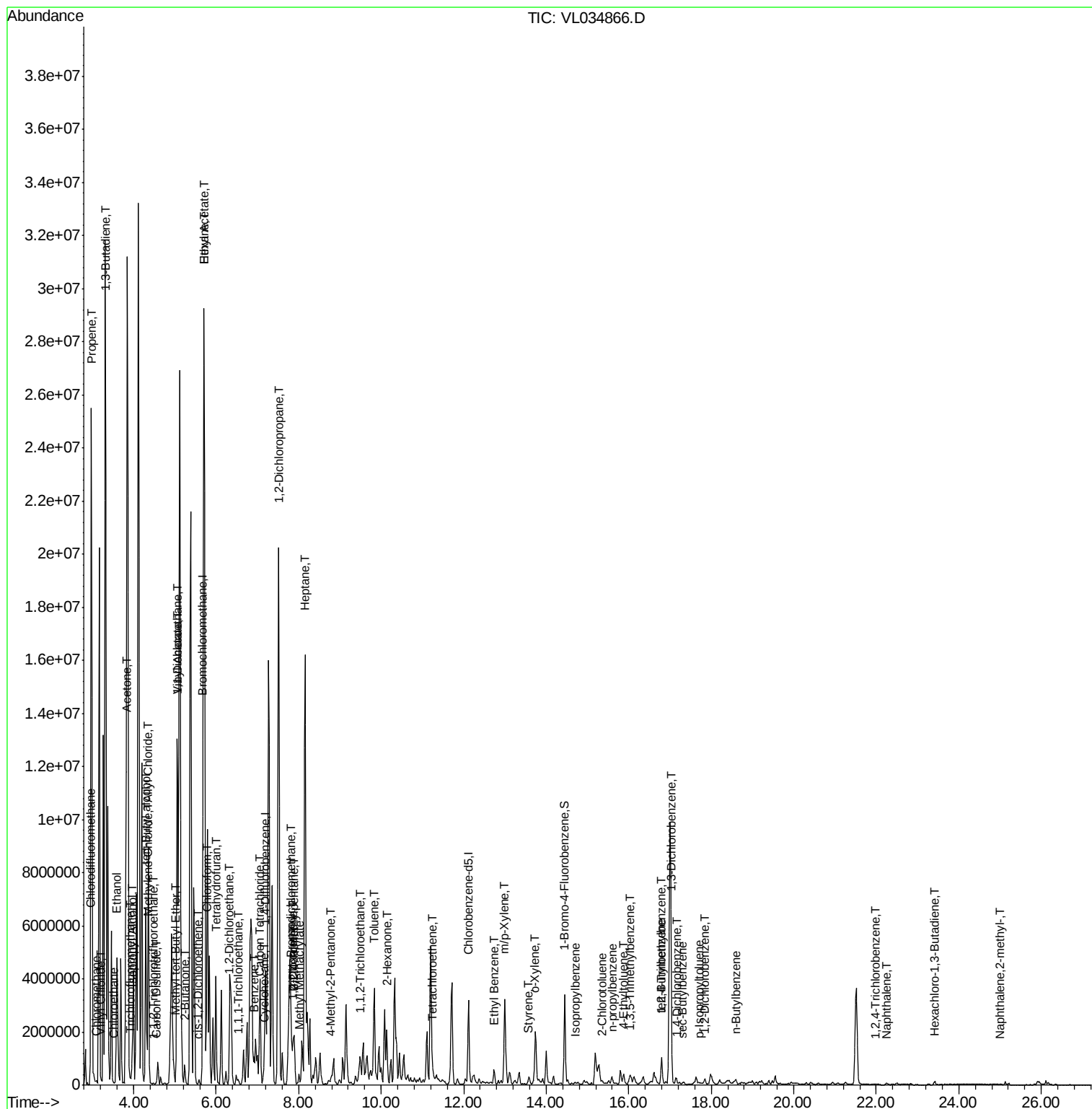
Quant Time: Mar 11 05:51:04 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 09 16:42:53 2020
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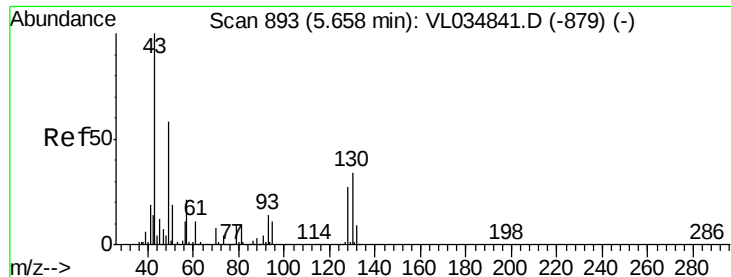
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Ethyl Benzene	12.74	91	469615	1.717	ppbv	96
59) m/p-Xylene	13.00	91	2738910	11.952	ppbv	99
60) o-Xylene	13.72	91	433216	1.936	ppbv	99
61) Styrene	13.56	104	9594	0.061	ppbv #	60
62) Isopropylbenzene	14.70	105	30681	0.091	ppbv #	26
64) n-propylbenzene	15.59	120	53738	0.610	ppbv	87
65) tert-Butylbenzene	16.79	119	37528	0.127	ppbv #	33
67) sec-Butylbenzene	17.32	105	17849	0.044	ppbv	95
69) p-Isopropyltoluene	17.70	119	11594	0.034	ppbv #	47
70) n-Butylbenzene	18.59	91	39474	0.113	ppbv #	1
71) 2-Chlorotoluene	15.36	91	2841	0.011	ppbv #	38
72) 4-Ethyltoluene	15.87	105	256426	0.970	ppbv	98
73) 1,3,5-Trimethylbenzene	16.03	105	113035	0.457	ppbv	95
74) 1,2,4-Trimethylbenzene	16.80	105	709705	2.785	ppbv #	77
75) 1,3-Dichlorobenzene	17.04	146	3773	0.025	ppbv #	22
76) 1,4-Dichlorobenzene	17.18	146	3252	0.021	ppbv #	1
77) 1,2-Dichlorobenzene	17.85	146	2796	0.019	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.42	225	13519	0.109	ppbv #	1
79) Naphthalene	22.26	128	13232	0.067	ppbv #	55
80) Naphthalene,2-methyl-	25.01	142	14774	0.284	ppbv	95
81) 1,2,4-Trichlorobenzene	21.99	180	2831	0.022	ppbv #	12

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

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Instrument :

MSVOA_L

ClientSampled :

O-1

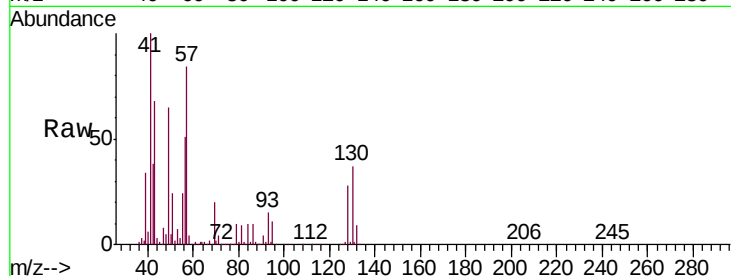
Tgt Ion: 49 Resp: 803999

Ion Ratio Lower Upper

49 100

128 43.7 23.4 70.3

130 56.2 30.0 90.0

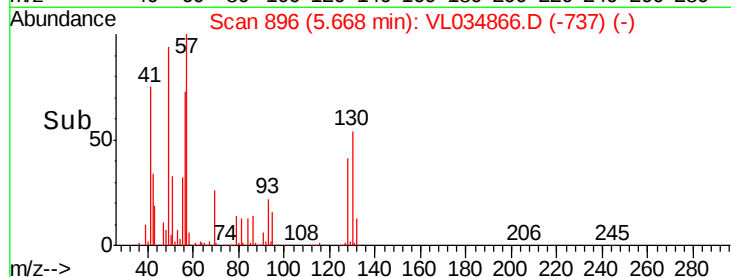


Abundance Ion 49.10 (48.80 to 49.80): VL0

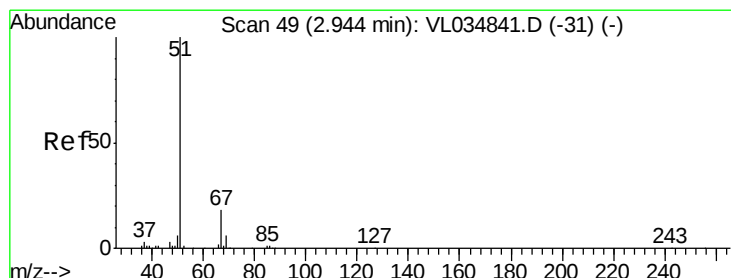
Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

Time-->



Time-->



#3

Chlorodifluoromethane

Concen: 0.369 ppbv

RT: 2.94 min Scan# 48

Delta R.T. -0.00 min

Lab File: VL034866.D

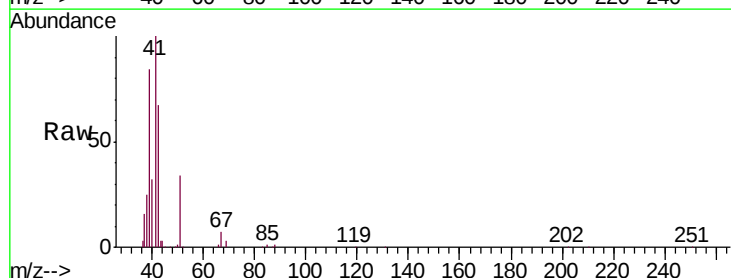
Acq: 10 Mar 2020 15:01

Tgt Ion: 51 Resp: 33119

Ion Ratio Lower Upper

51 100

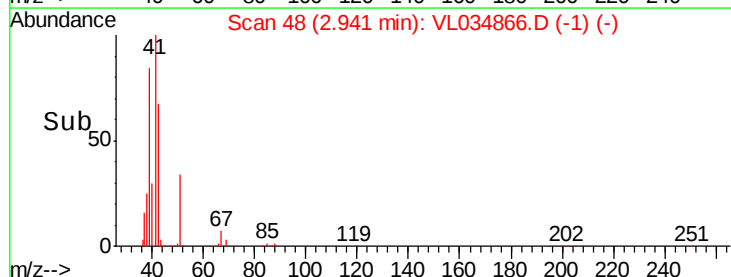
67 16.3 14.3 21.5



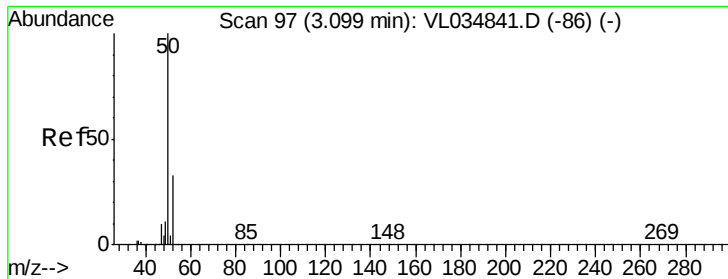
Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

Time-->



Time-->



#4

Chloromethane

Concen: 0.949 ppbv

RT: 3.10 min Scan# 96

Delta R.T. -0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

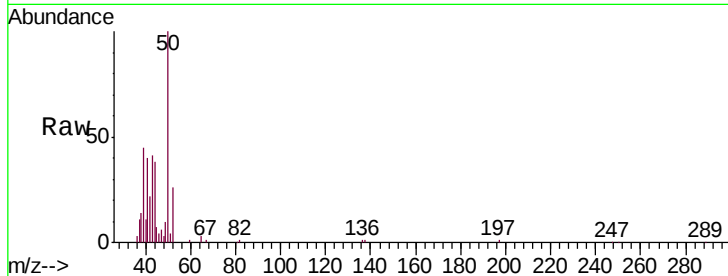
O-1

Tgt Ion: 50 Resp: 48194

Ion Ratio Lower Upper

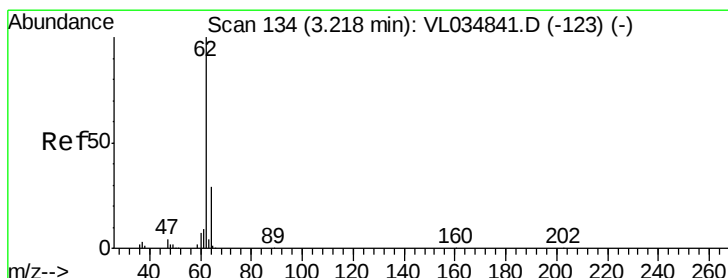
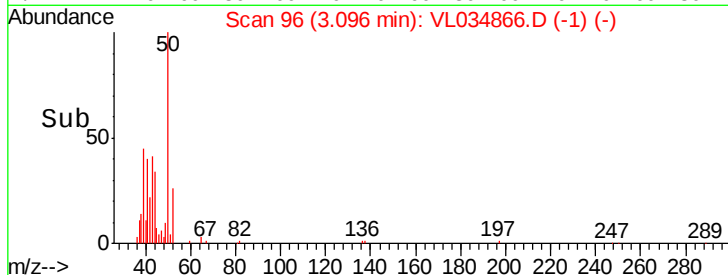
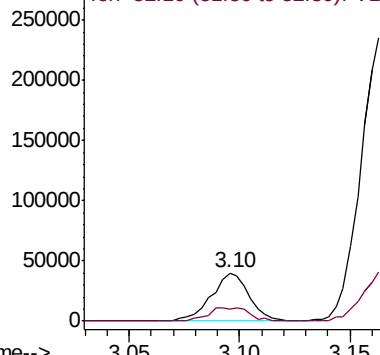
50 100

52 25.3 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 0.044 ppbv

RT: 3.22 min Scan# 135

Delta R.T. 0.00 min

Lab File: VL034866.D

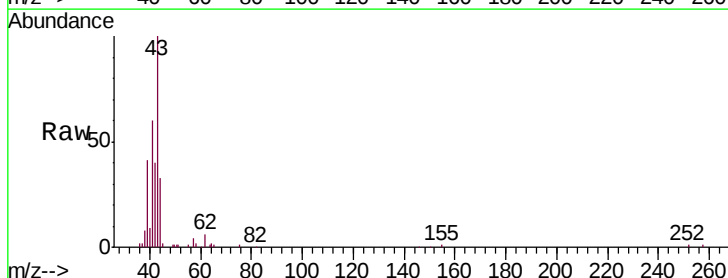
Acq: 10 Mar 2020 15:01

Tgt Ion: 62 Resp: 2155

Ion Ratio Lower Upper

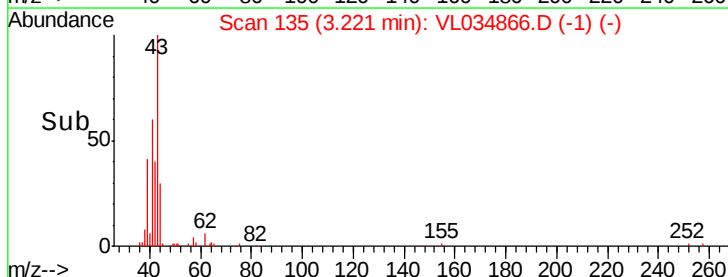
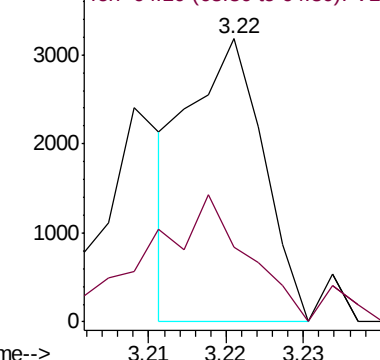
62 100

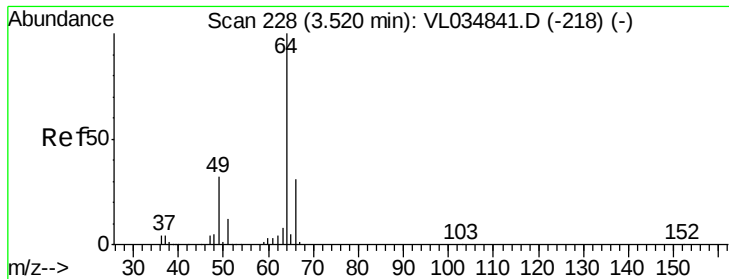
64 26.2 23.0 34.4



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#7

Chloroethane

Concen: 0.125 ppbv

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

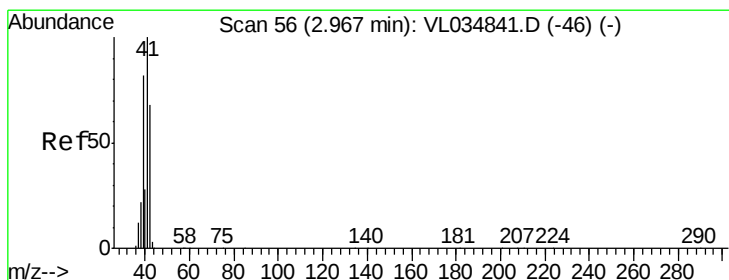
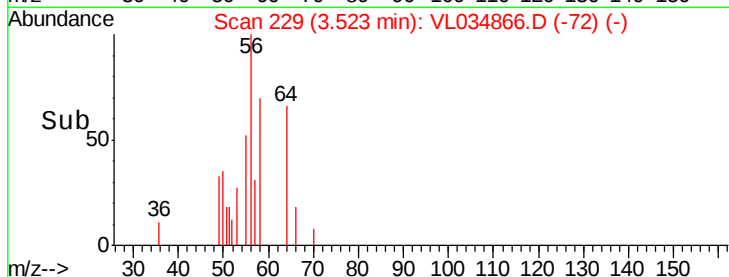
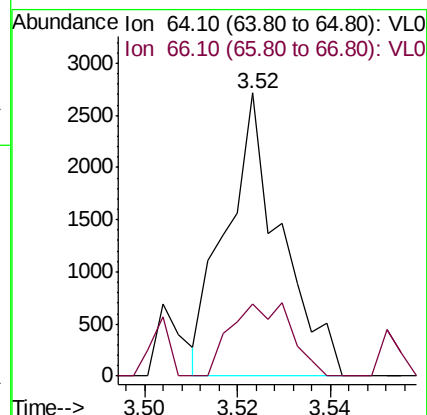
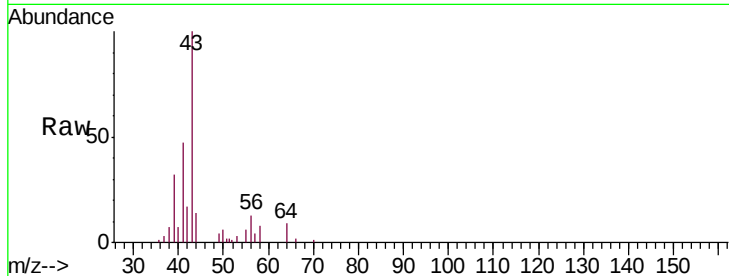
O-1

Tgt Ion: 64 Resp: 2198

Ion Ratio Lower Upper

64 100

66 25.4 24.8 37.2



#9

Propene

Concen: 208.048 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.00 min

Lab File: VL034866.D

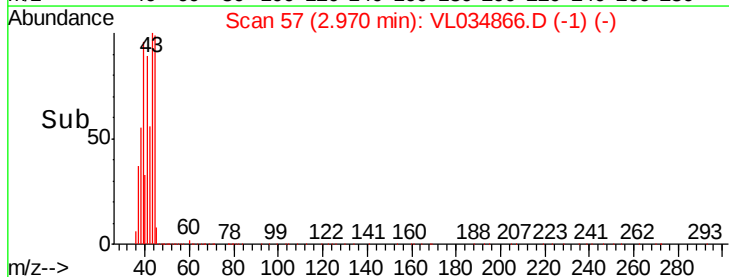
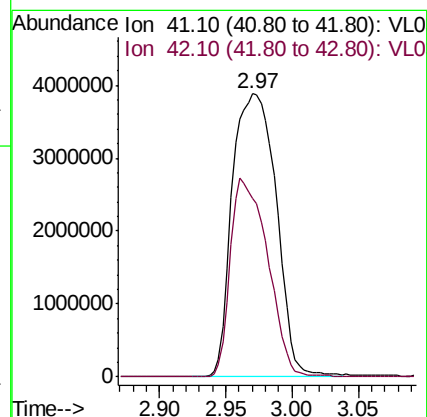
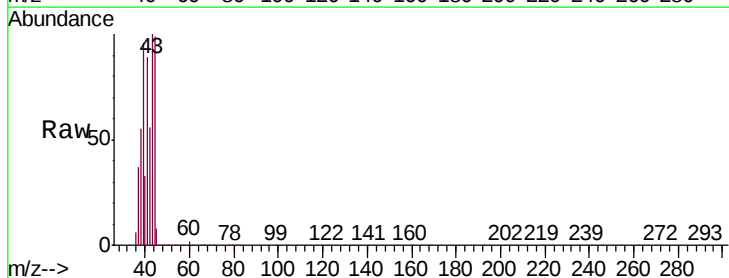
Acq: 10 Mar 2020 15:01

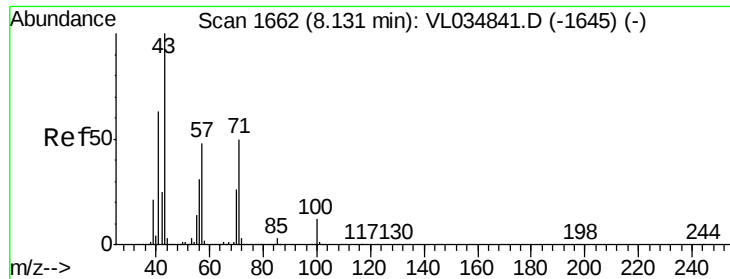
Tgt Ion: 41 Resp: 8921171

Ion Ratio Lower Upper

41 100

42 60.2 55.2 82.8





#10

Heptane

Concen: 77.047 ppbv

RT: 8.15 min Scan# 1669

Delta R.T. 0.02 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

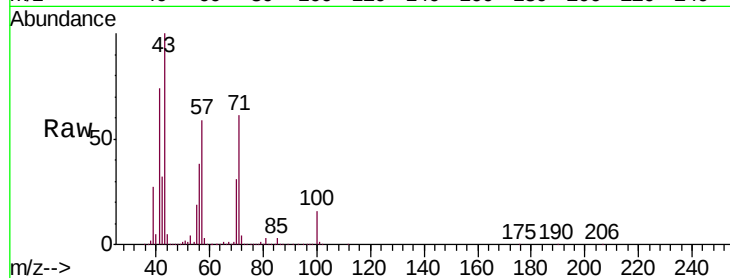
O-1

Tgt Ion: 43 Resp: 8131041

Ion Ratio Lower Upper

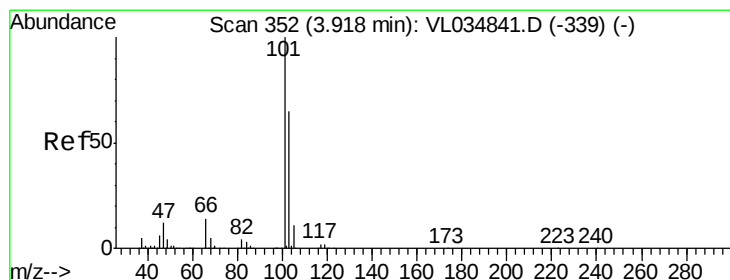
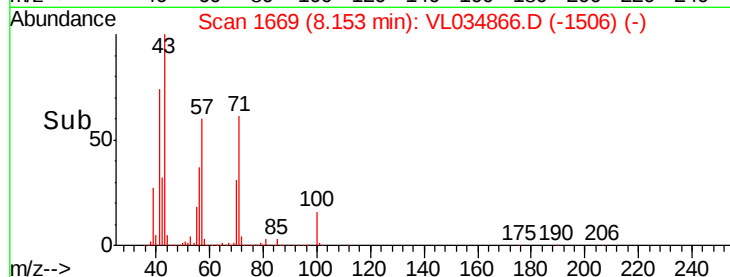
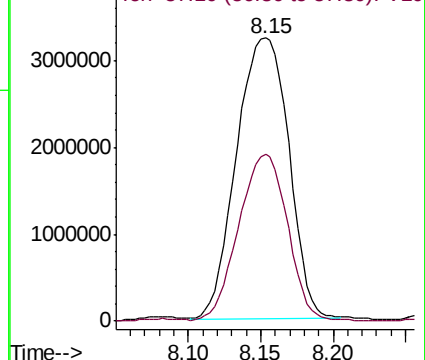
43 100

57 55.0 39.7 59.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.267 ppbv

RT: 3.93 min Scan# 354

Delta R.T. 0.01 min

Lab File: VL034866.D

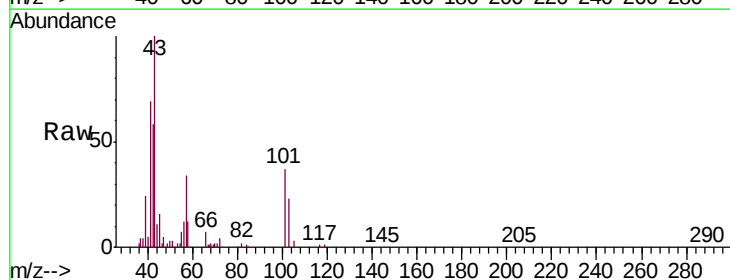
Acq: 10 Mar 2020 15:01

Tgt Ion: 101 Resp: 31245

Ion Ratio Lower Upper

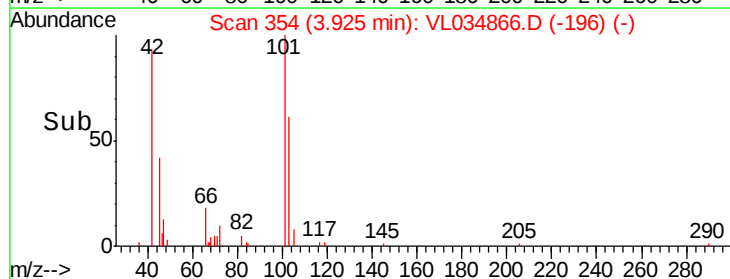
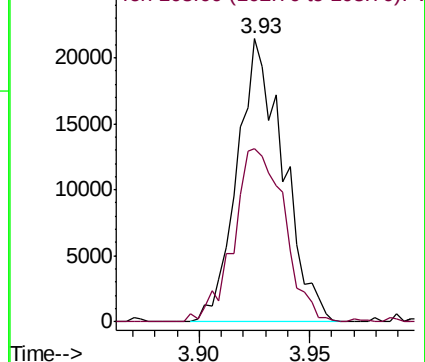
101 100

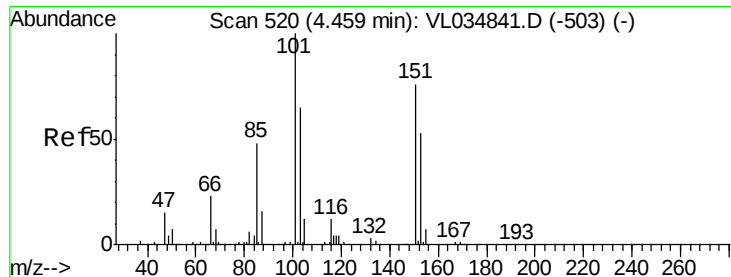
103 61.3 51.8 77.8



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# 524

Delta R.T. 0.01 min

Lab File: VL034866.D

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Instrument :

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ClientSampleId :

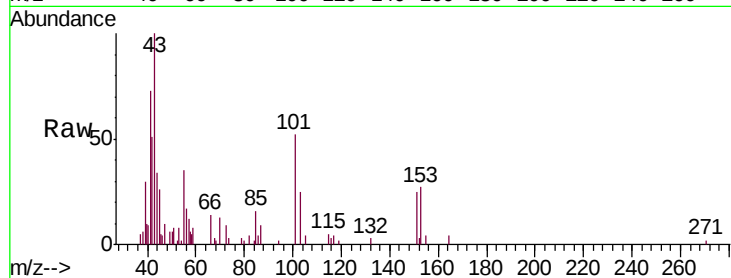
O-1

Tgt Ion:101 Resp: 5015

Ion Ratio Lower Upper

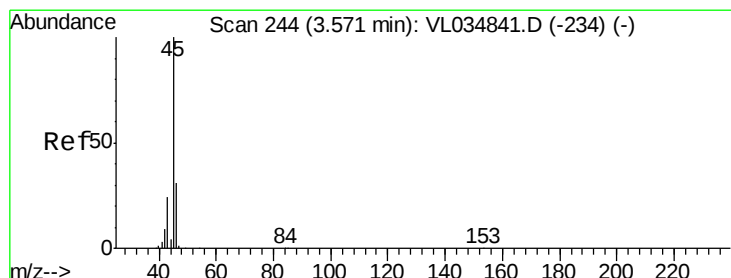
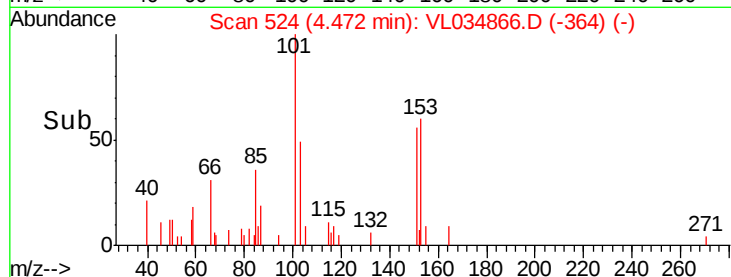
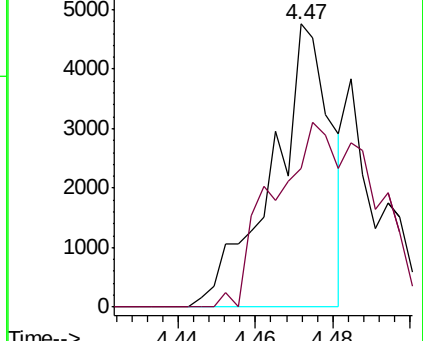
101 100

151 113.4 60.8 91.2#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 517.885 ppbv

RT: 3.59 min Scan# 251

Delta R.T. 0.02 min

Lab File: VL034866.D

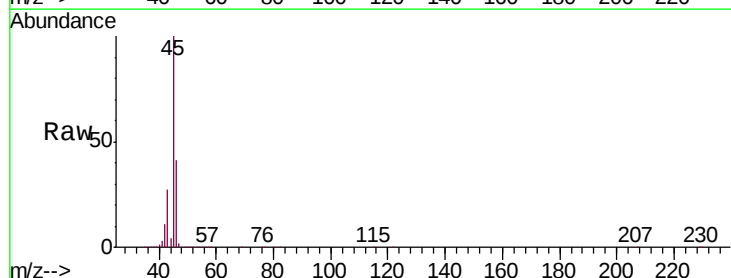
Acq: 10 Mar 2020 15:01

Tgt Ion: 45 Resp: 6751446

Ion Ratio Lower Upper

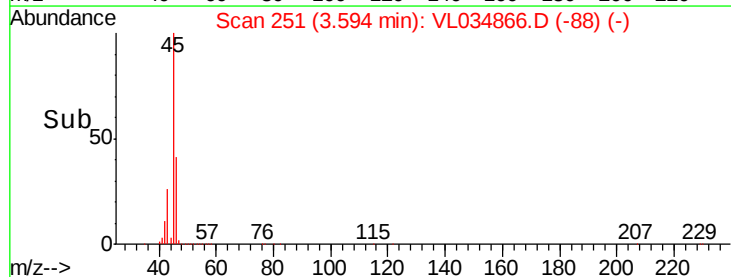
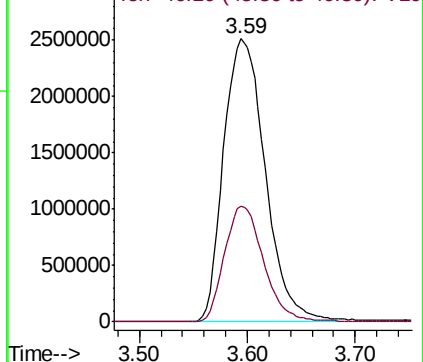
45 100

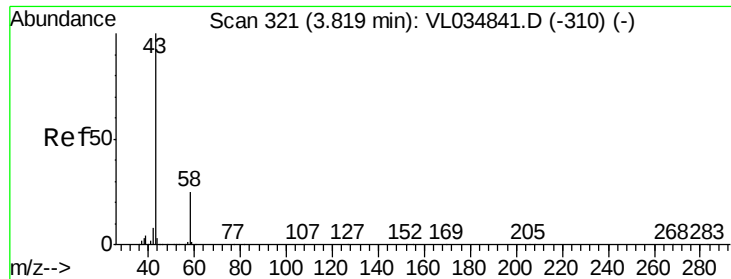
46 38.7 16.0 64.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 92.547 ppbv

RT: 3.82 min Scan# 320

Delta R.T. -0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampled :

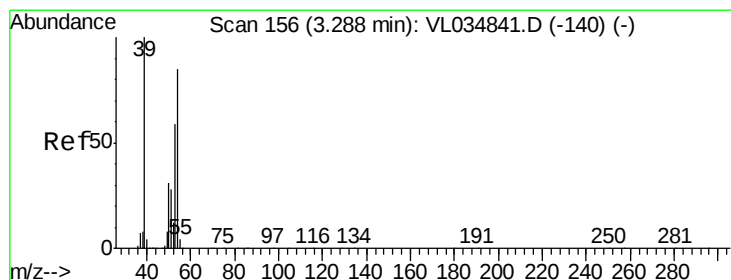
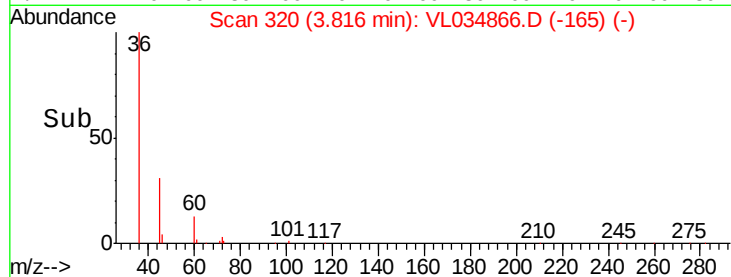
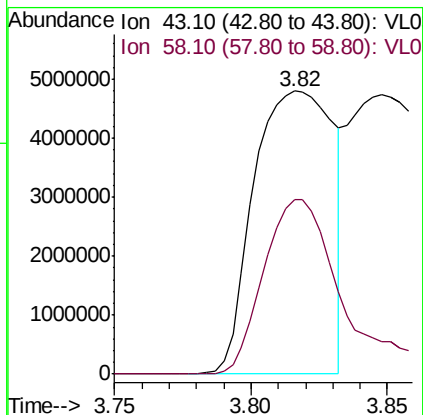
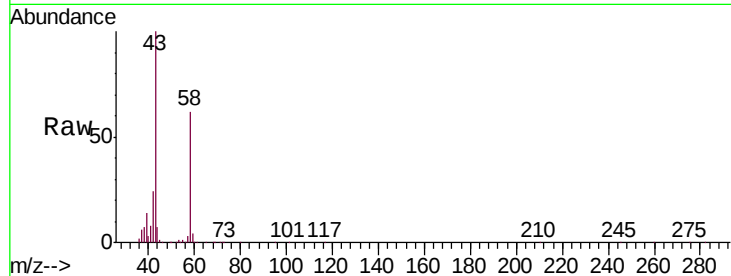
O-1

Tgt Ion: 43 Resp: 9643906

Ion Ratio Lower Upper

43 100

58 61.7 21.0 31.6#



#16

1,3-Butadiene

Concen: 162.837 ppbv

RT: 3.31 min Scan# 163

Delta R.T. 0.02 min

Lab File: VL034866.D

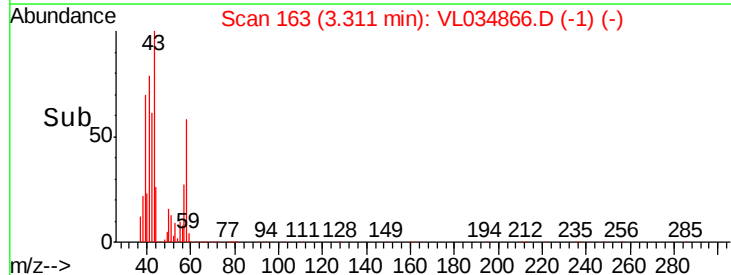
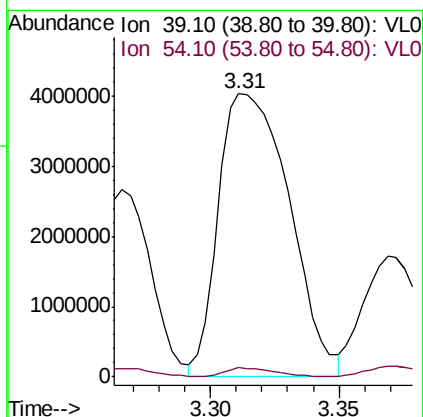
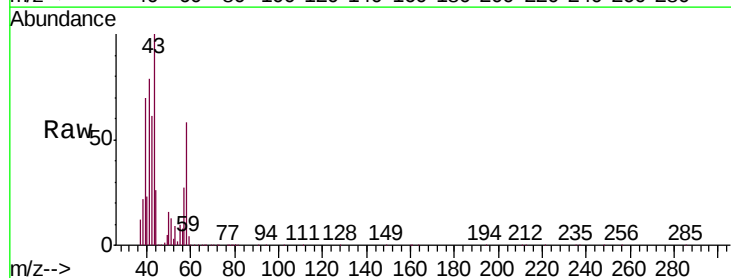
Acq: 10 Mar 2020 15:01

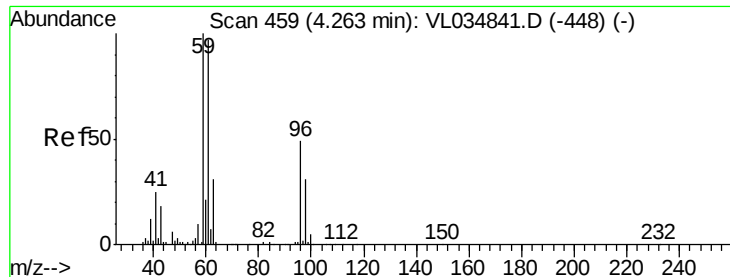
Tgt Ion: 39 Resp: 7673365

Ion Ratio Lower Upper

39 100

54 2.4 65.0 97.6#



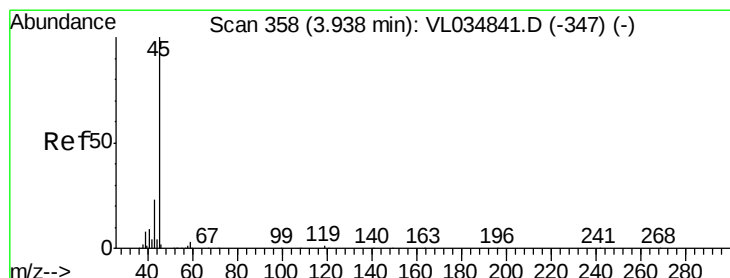
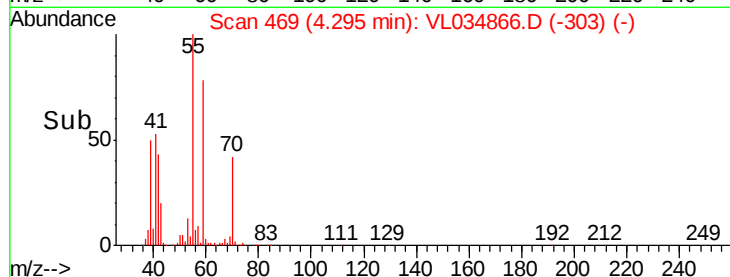
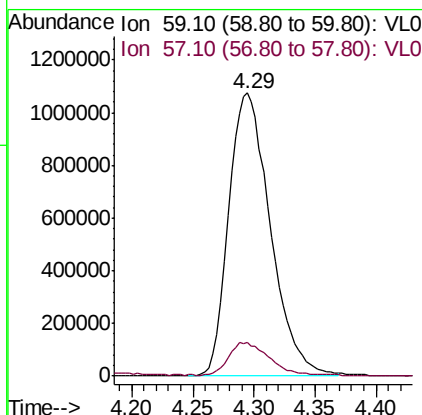
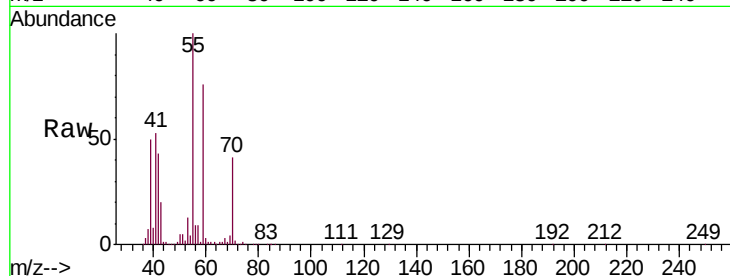


#17

tert-Butyl alcohol
 Concen: 25.445 ppbv
 RT: 4.29 min Scan# 469
 Delta R.T. 0.03 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Instrument :
 MSVOA_L
 ClientSampled :
 O-1

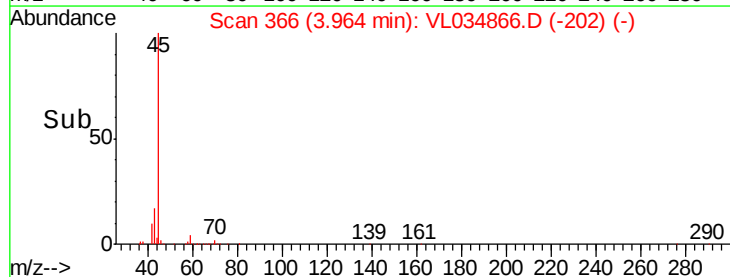
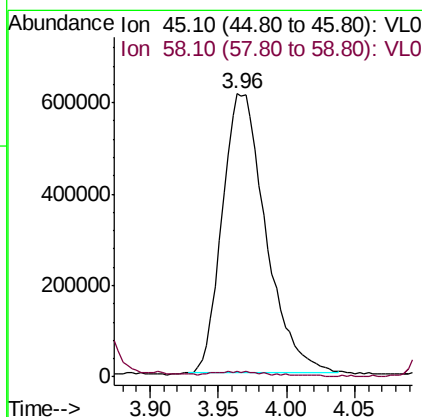
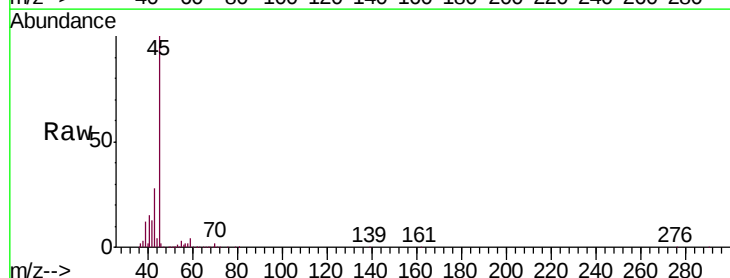
Tgt Ion: 59 Resp: 2554568
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

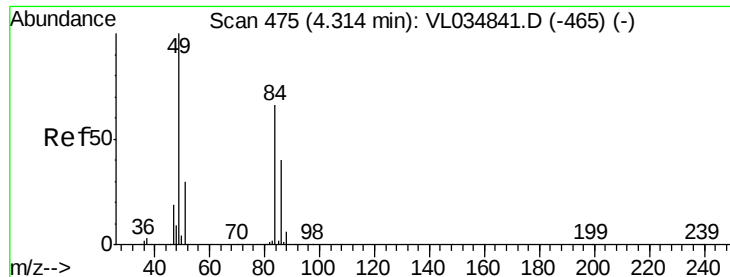


#19

Isopropyl Alcohol
 Concen: 20.668 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.03 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Tgt Ion: 45 Resp: 1360076
 Ion Ratio Lower Upper
 45 100
 58 29.1 30.5 45.7#





#20

Methylene Chloride

Concen: 6.872 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.02 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampled :

O-1

Tgt Ion: 84 Resp: 226400

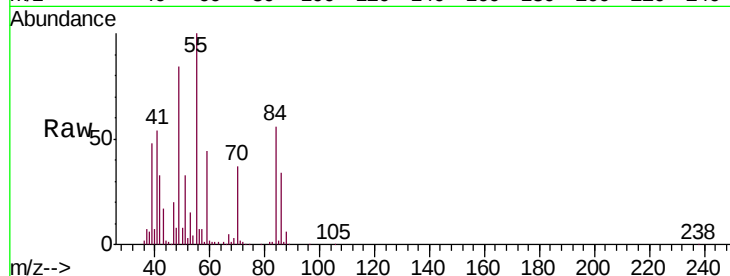
Ion Ratio Lower Upper

84 100

49 142.8 121.5 182.3

51 20.4 36.6 55.0#

86 61.2 48.2 72.2



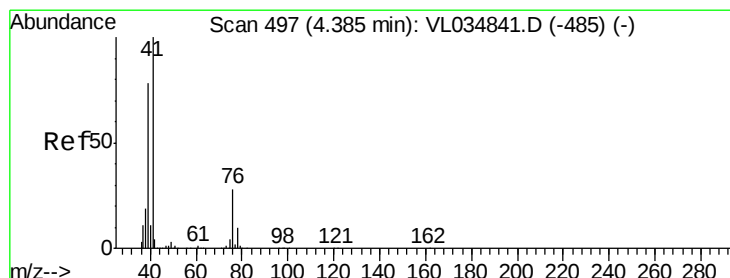
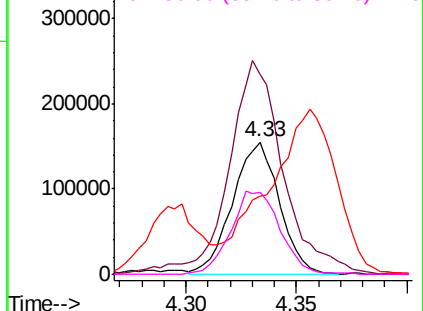
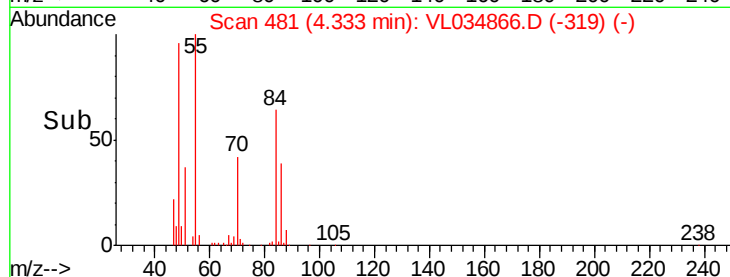
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#21

Allyl Chloride

Concen: 25.899 ppbv

RT: 4.36 min Scan# 488

Delta R.T. -0.03 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

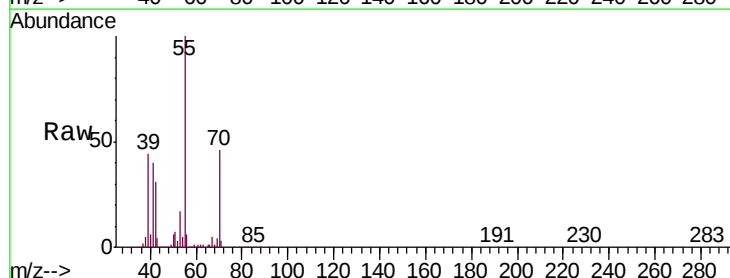
Tgt Ion: 41 Resp: 1733280

Ion Ratio Lower Upper

41 100

76 0.0 22.2 33.2#

39 110.6 62.6 93.8#

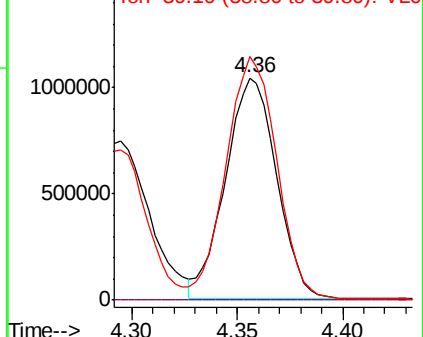
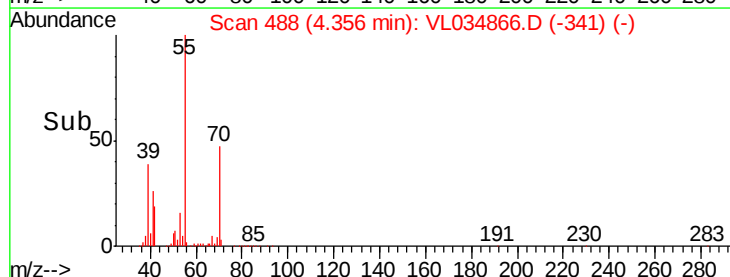


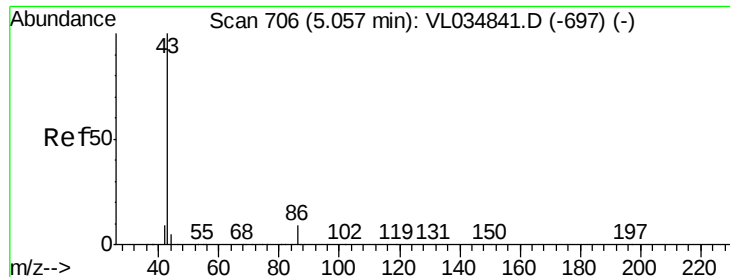
Abundance

Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 34.701 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampled :

O-1

Tgt Ion: 43 Resp: 5341519

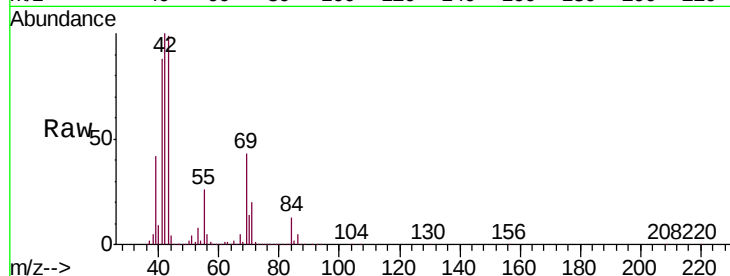
Ion Ratio Lower Upper

43 100

86 5.1 6.3 9.5#

42 100.9 7.8 11.8#

44 3.7 4.0 6.0#

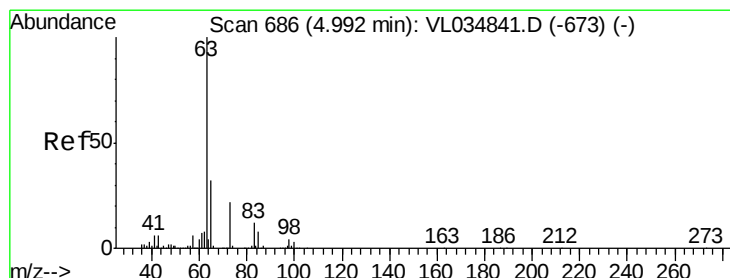
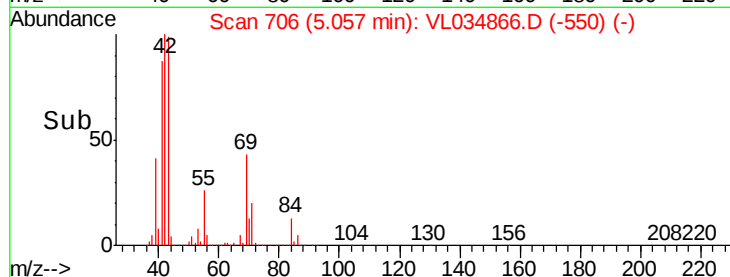
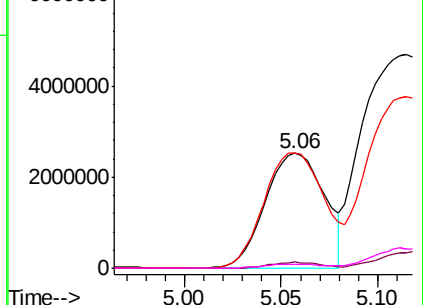


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.133 ppbv

RT: 5.05 min Scan# 704

Delta R.T. 0.06 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

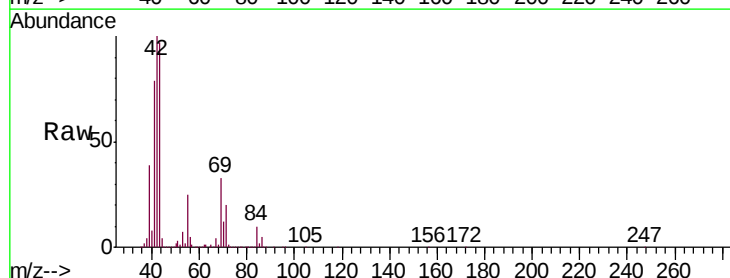
Tgt Ion: 63 Resp: 13722

Ion Ratio Lower Upper

63 100

98 0.0 2.0 5.8#

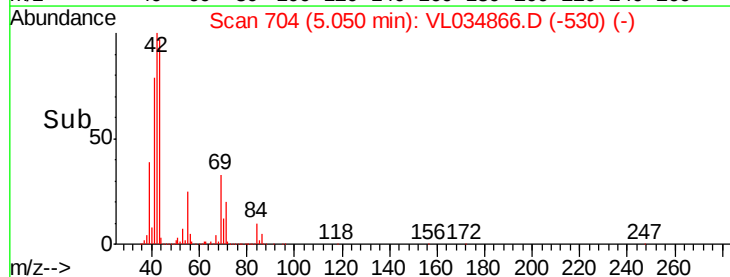
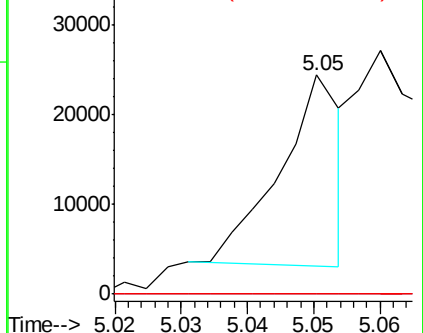
100 0.0 1.4 4.0#

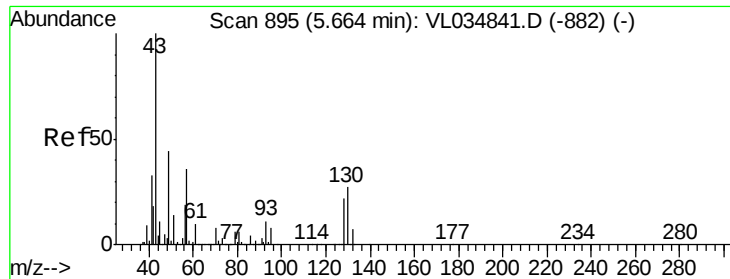


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 62.323 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.04 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

O-1

Tgt Ion: 43 Resp:11570385

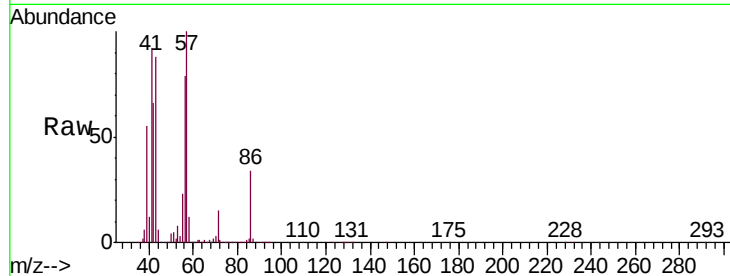
Ion Ratio Lower Upper

43 100

45 0.2 8.2 12.2#

61 0.3 7.8 11.6#

70 2.5 5.8 8.8#

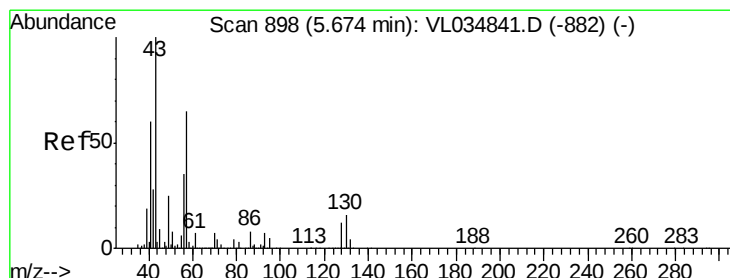
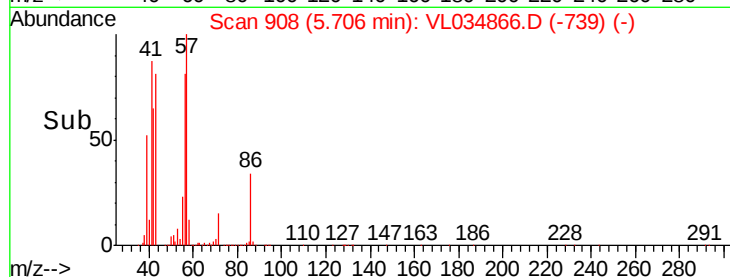
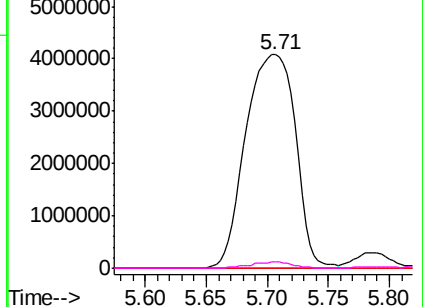


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 170.885 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.03 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Tgt Ion: 57 Resp:13661276

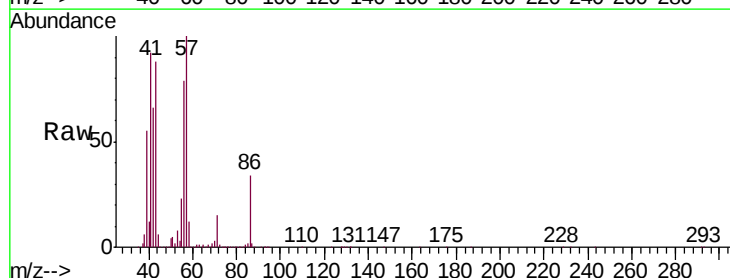
Ion Ratio Lower Upper

57 100

41 97.5 72.6 109.0

43 84.5 183.8 275.6#

56 72.4 41.9 62.9#

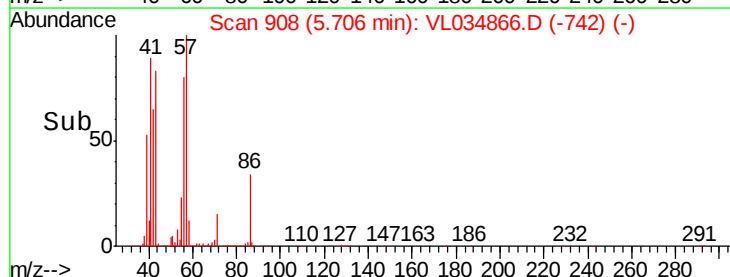
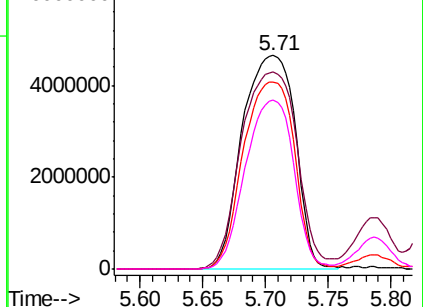


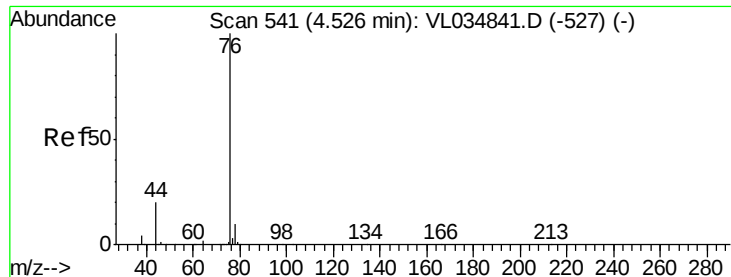
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.580 ppbv

RT: 4.54 min Scan# 545

Delta R.T. 0.01 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

O-1

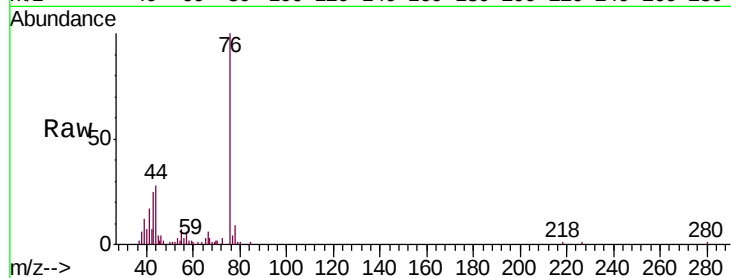
Tgt Ion: 76 Resp: 52642

Ion Ratio Lower Upper

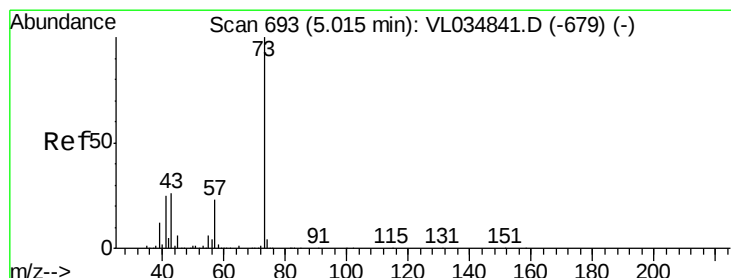
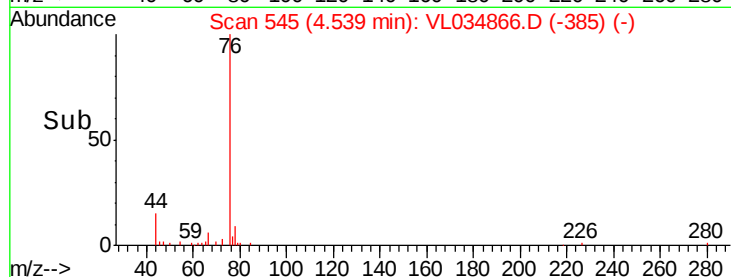
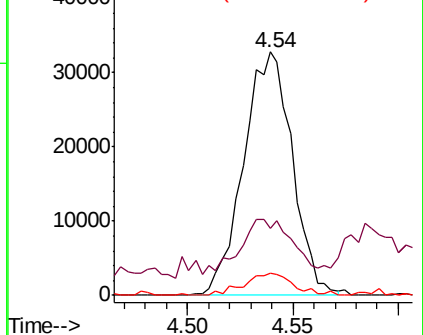
76 100

44 0.0 16.2 24.2#

78 9.2 7.8 11.6



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



#28

Methyl tert-Butyl Ether

Concen: 0.032 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.00 min

Lab File: VL034866.D

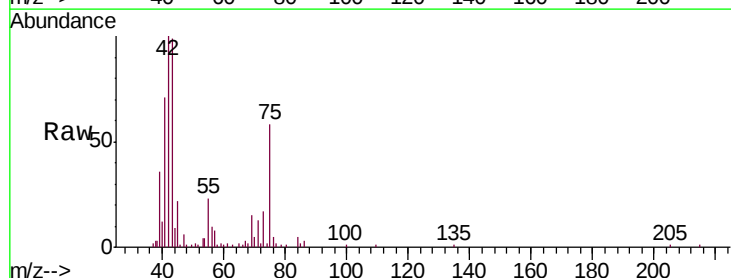
Acq: 10 Mar 2020 15:01

Tgt Ion: 73 Resp: 4240

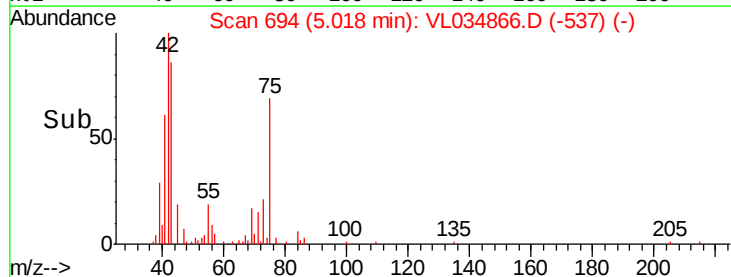
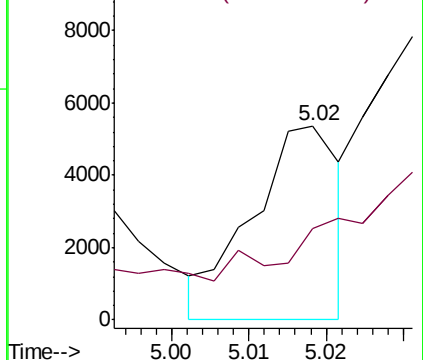
Ion Ratio Lower Upper

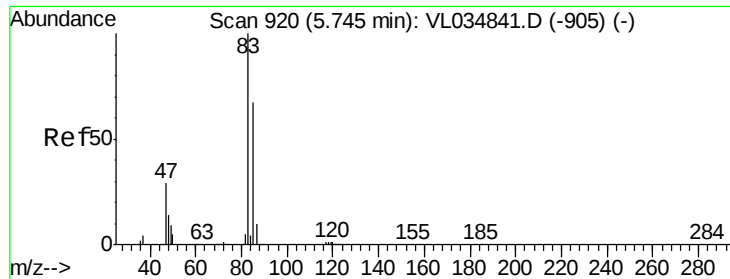
73 100

57 0.0 18.3 27.5#



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

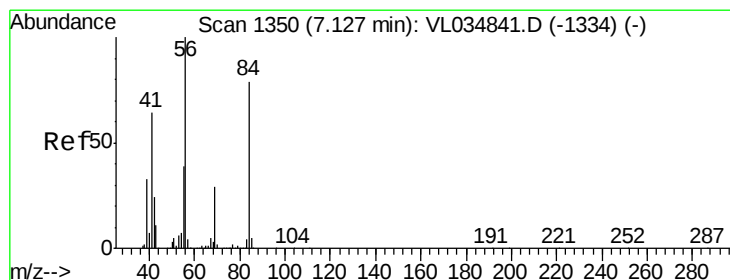
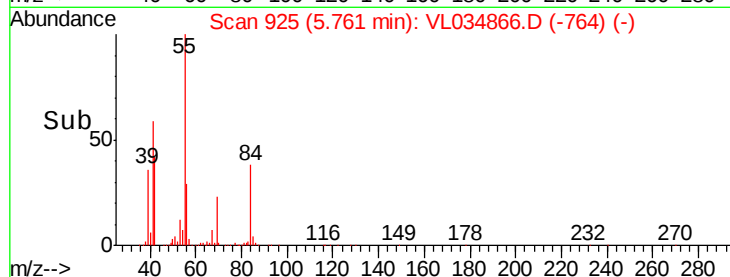
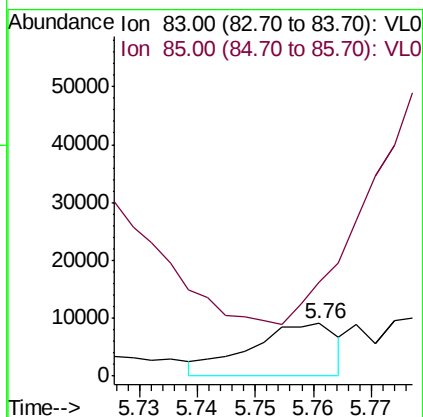
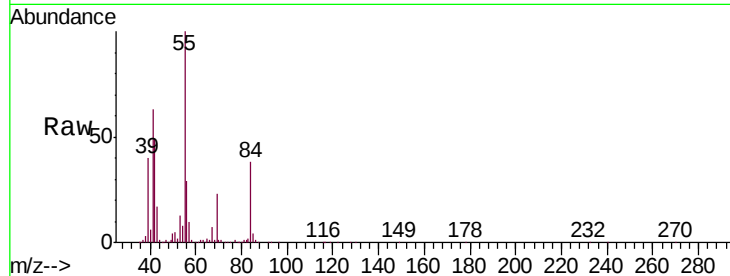




#29
Chloroform
Concen: 0.079 ppbv
RT: 5.76 min Scan# 925
Delta R.T. 0.02 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

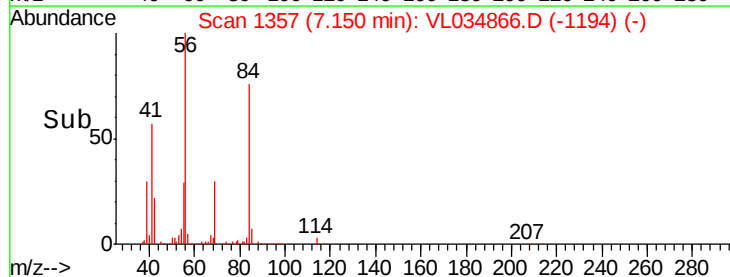
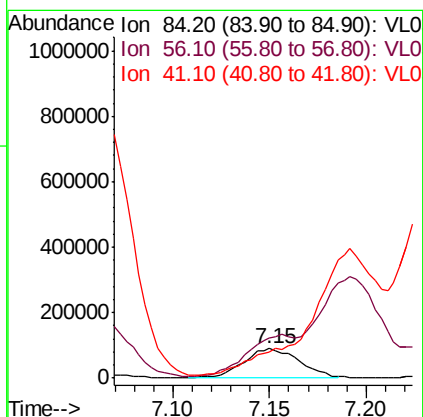
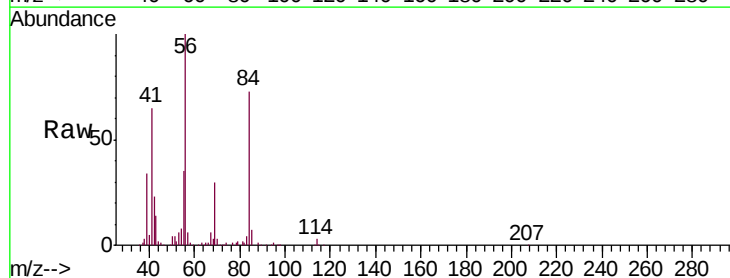
Instrument :
MSVOA_L
ClientSampled :
O-1

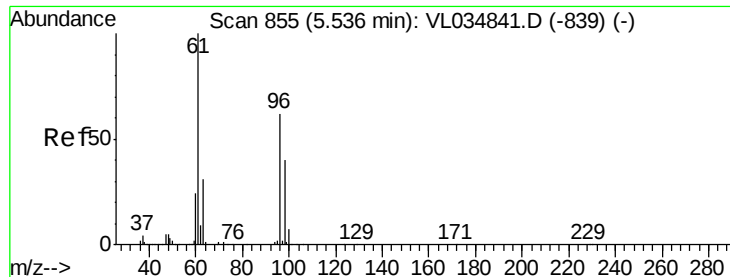
Tgt Ion: 83 Resp: 9579
Ion Ratio Lower Upper
83 100
85 18.7 53.8 80.6#



#30
Cyclohexane
Concen: 2.648 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.02 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

Tgt Ion: 84 Resp: 176643
Ion Ratio Lower Upper
84 100
56 499.4 110.5 165.7#
41 496.6 68.2 102.4#



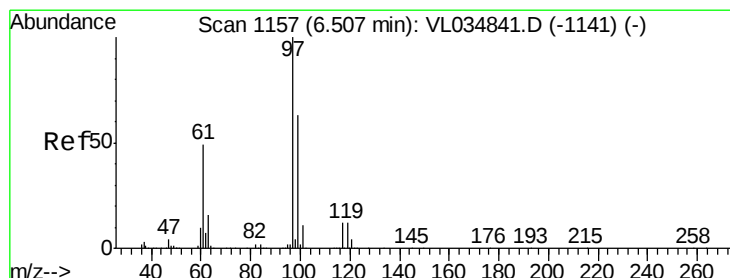
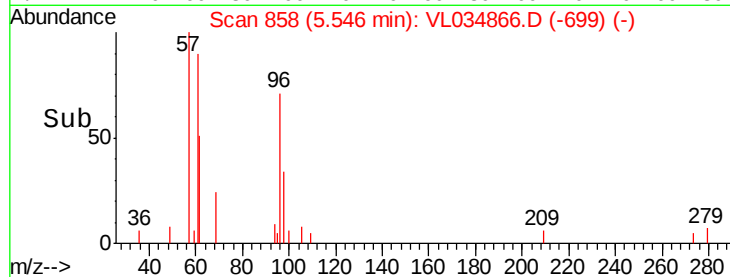
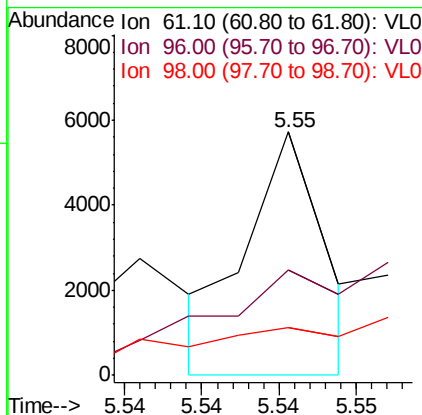
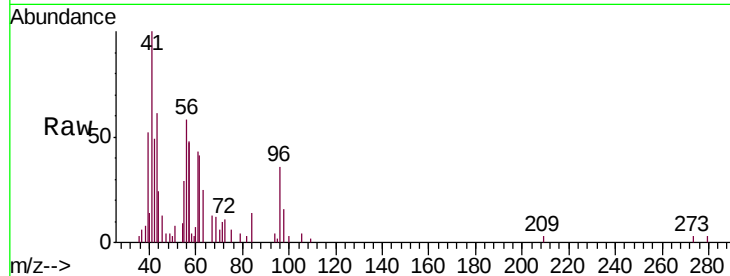


#31

cis-1,2-Dichloroethene
 Concen: 0.024 ppbv
 RT: 5.55 min Scan# 858
 Delta R.T. 0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 O-1

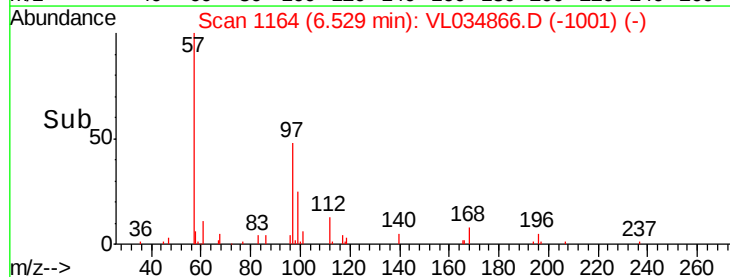
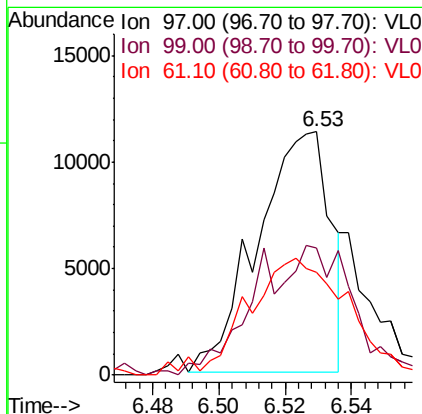
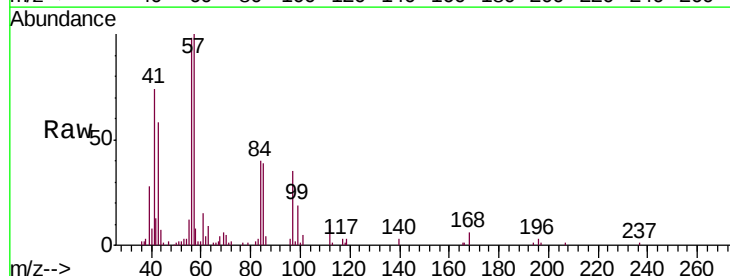
Tgt Ion: 61 Resp: 1988
 Ion Ratio Lower Upper
 61 100
 96 28.1 49.8 74.8#
 98 11.7 32.2 48.4#

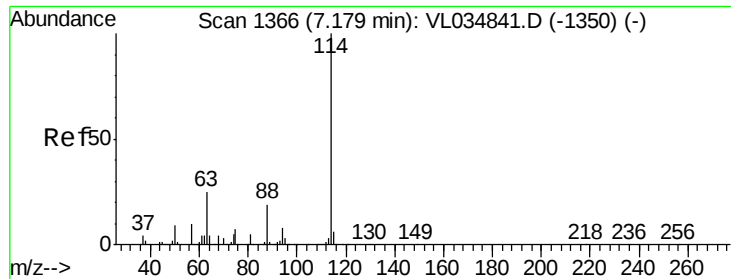


#32

1,1,1-Trichloroethane
 Concen: 0.146 ppbv
 RT: 6.53 min Scan# 1164
 Delta R.T. 0.02 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Tgt Ion: 97 Resp: 17360
 Ion Ratio Lower Upper
 97 100
 99 73.2 51.1 76.7
 61 68.3 39.7 59.5#

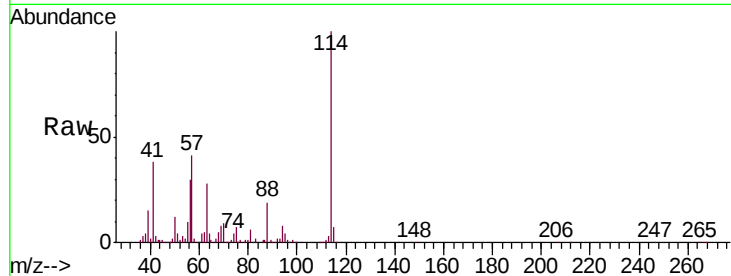




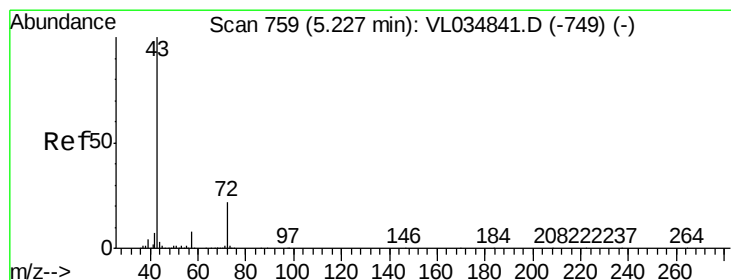
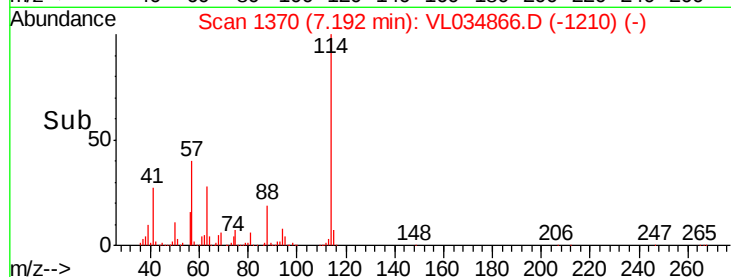
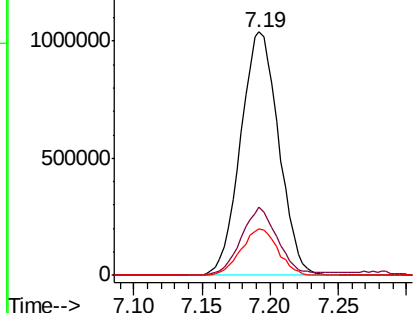
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 O-1

Tgt Ion:114 Resp: 2016045
 Ion Ratio Lower Upper
 114 100
 63 26.9 20.6 31.0
 88 18.6 15.0 22.6

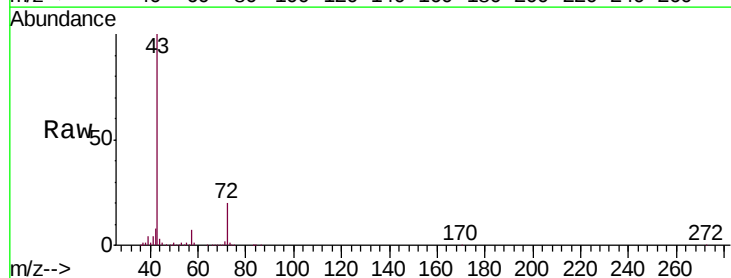


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

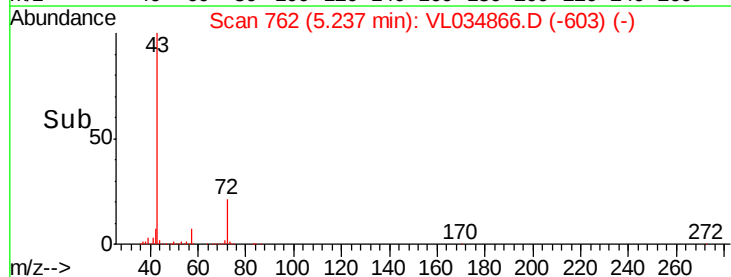
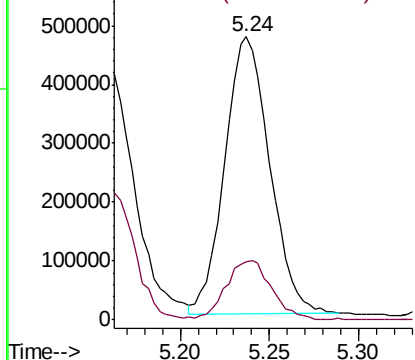


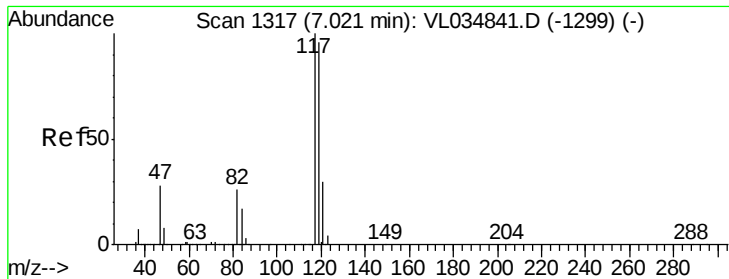
#34
 2-Butanone
 Concen: 6.163 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Tgt Ion: 43 Resp: 825633
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.6 26.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.044 ppbv

RT: 7.04 min Scan# 1322

Delta R.T. 0.02 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

O-1

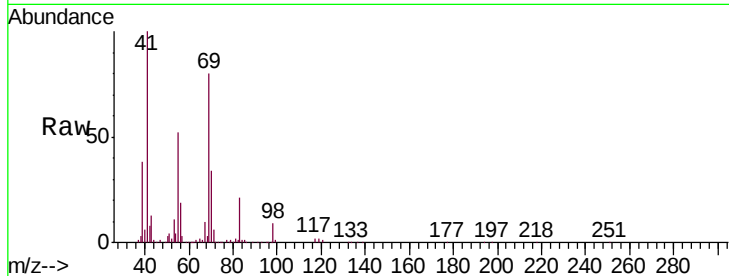
Tgt Ion:117 Resp: 5553

Ion Ratio Lower Upper

117 100

119 94.8 77.0 115.4

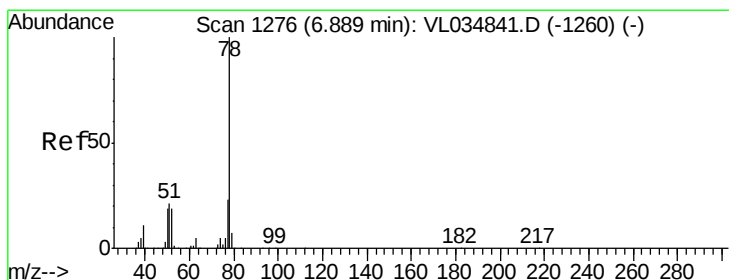
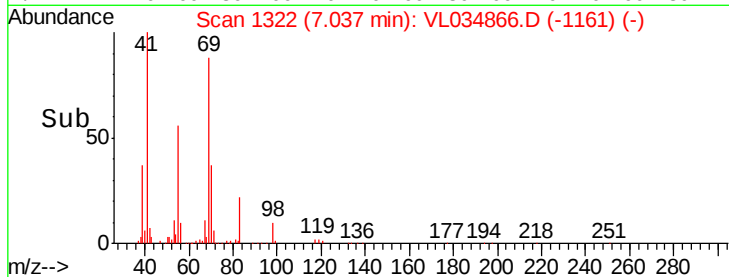
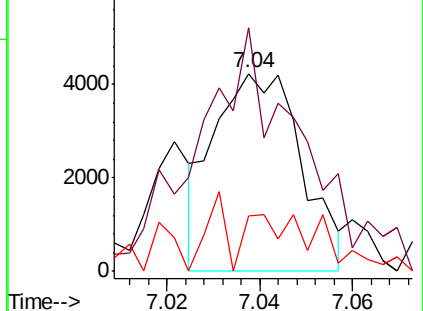
121 34.7 24.0 36.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 2.202 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.02 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

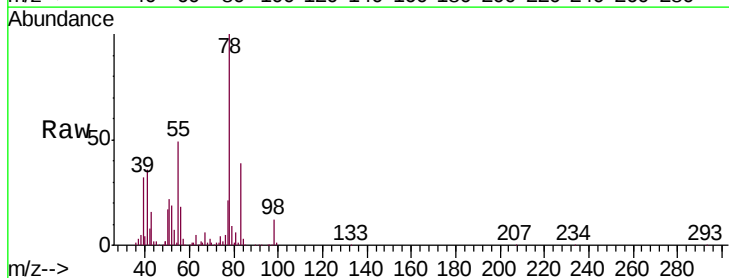
Tgt Ion: 78 Resp: 395643

Ion Ratio Lower Upper

78 100

77 18.4 18.2 27.2

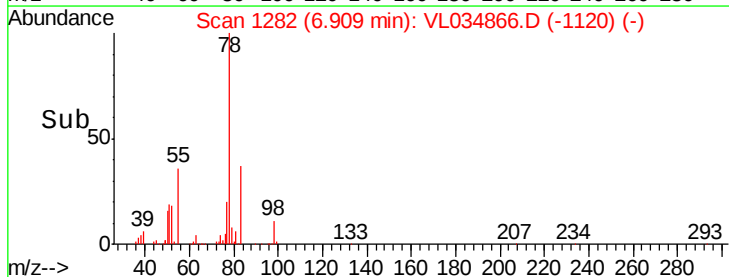
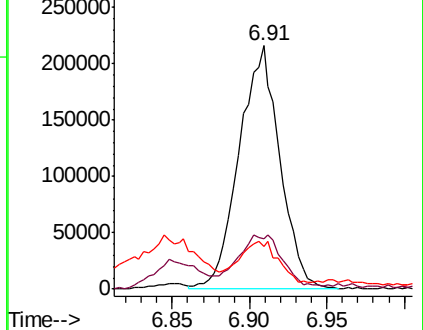
50 14.3 15.2 22.8#

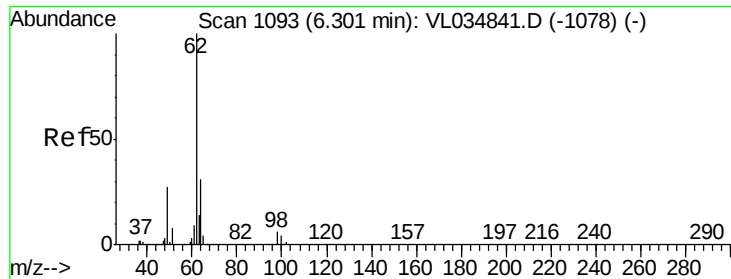


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

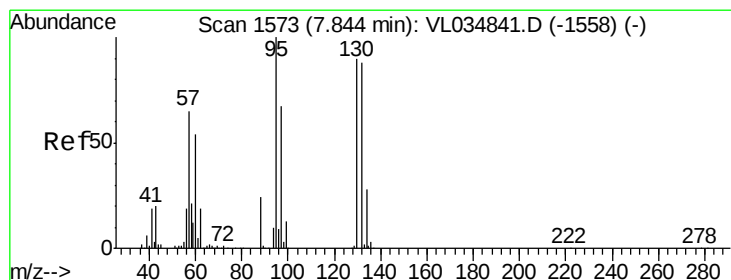
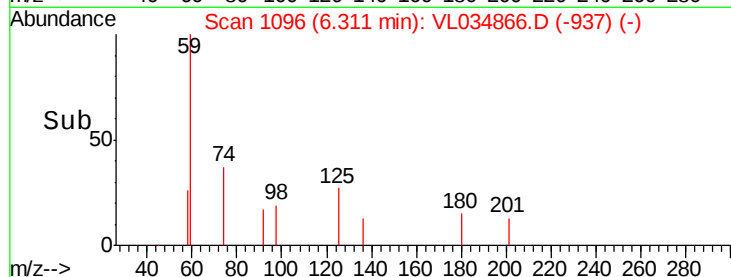
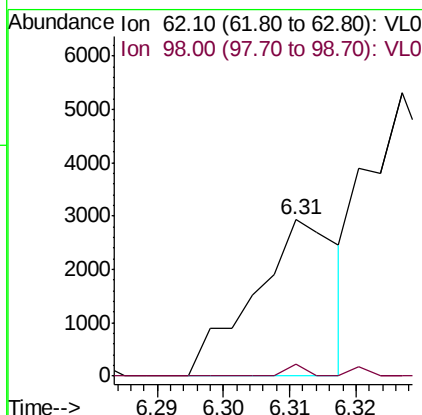
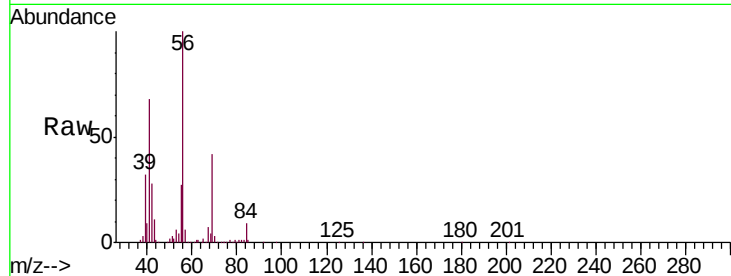




#37
 1,2-Dichloroethane
 Concen: 0.025 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. 0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

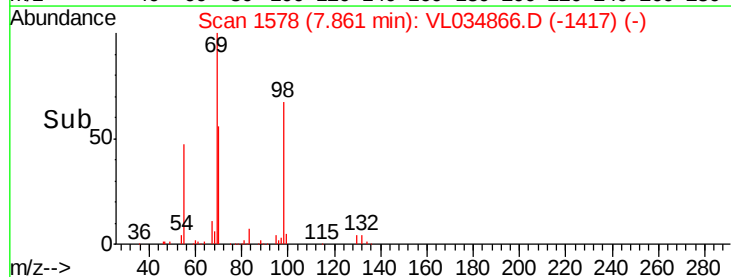
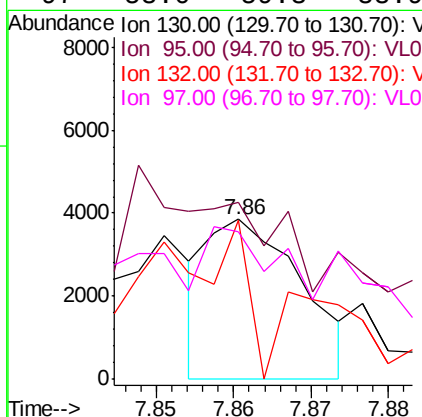
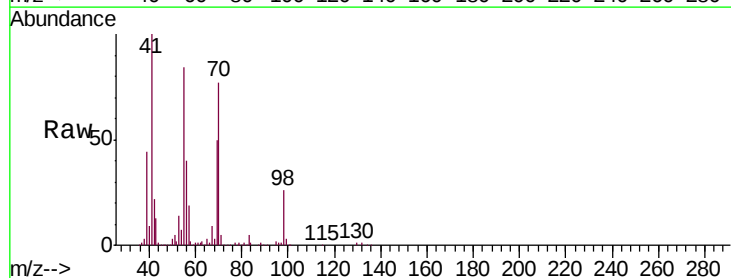
Instrument :
 MSVOA_L
 ClientSampleId :
 O-1

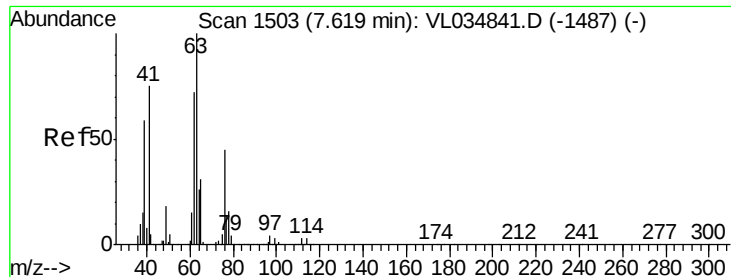
Tgt Ion: 62 Resp: 2562
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.2 7.8#



#38
 Trichloroethene
 Concen: 0.048 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.02 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Tgt Ion: 130 Resp: 3263
 Ion Ratio Lower Upper
 130 100
 95 49.3 88.5 132.7#
 132 70.8 78.0 117.0#
 97 58.0 59.3 88.9#





#39

1,2-Dichloropropane

Concen: 0.256 ppbv

RT: 7.52 min Scan# 1471

Delta R.T. -0.10 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

O-1

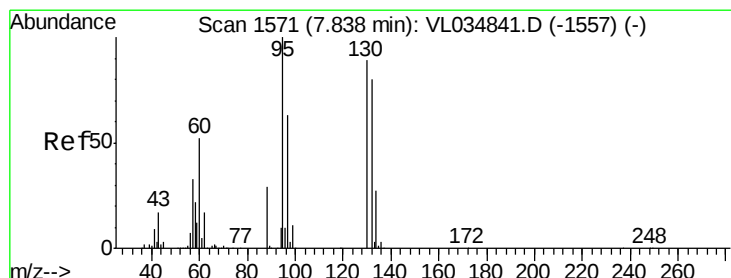
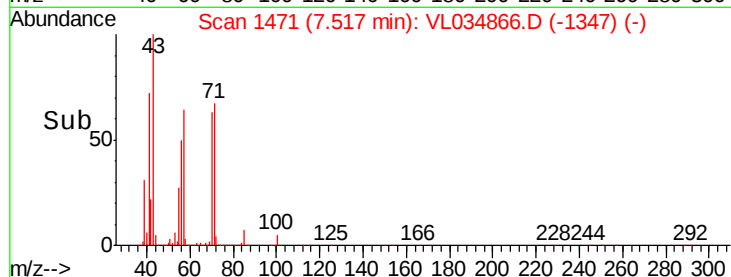
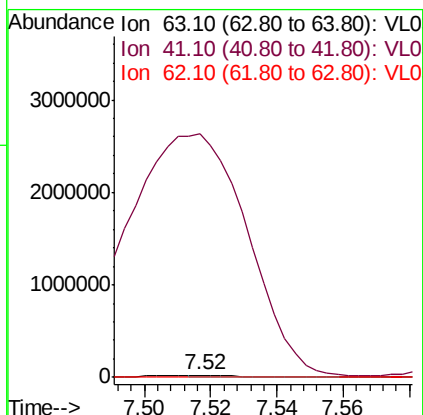
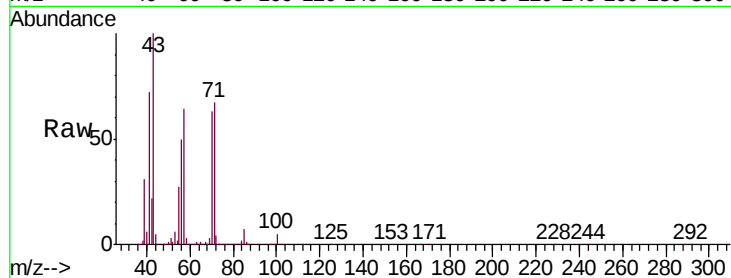
Tgt Ion: 63 Resp: 18219

Ion Ratio Lower Upper

63 100

41 14191.0 59.8 89.8#

62 43.8 57.6 86.4#



#40

1,4-Dioxane

Concen: 0.038 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Tgt Ion: 88 Resp: 1024

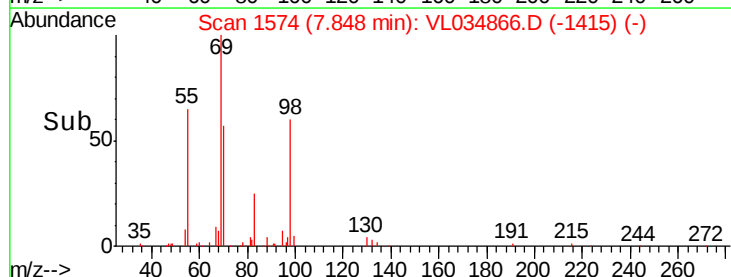
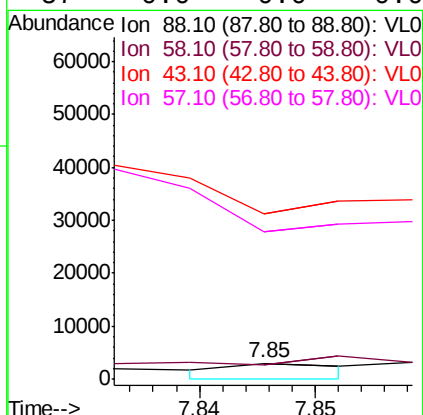
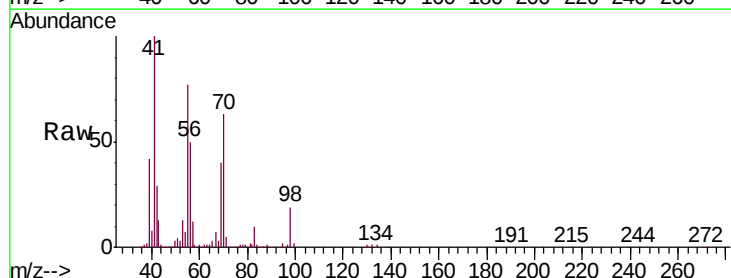
Ion Ratio Lower Upper

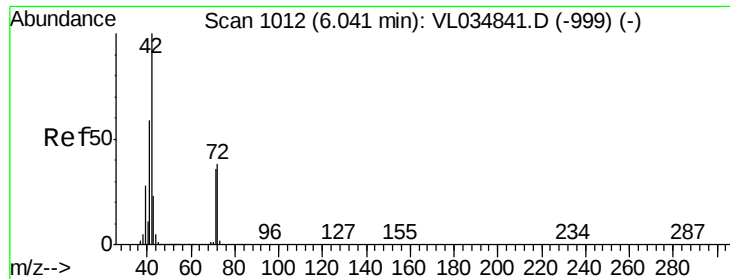
88 100

58 0.0 103.9 155.9#

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 12.050 ppbv

RT: 5.99 min Scan# 997

Delta R.T. -0.05 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

O-1

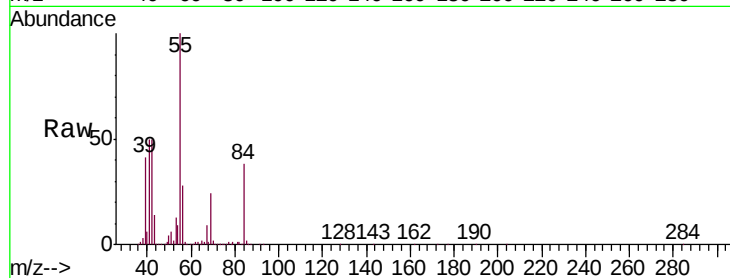
Tgt Ion: 42 Resp: 873573

Ion Ratio Lower Upper

42 100

72 1.3 30.8 46.2#

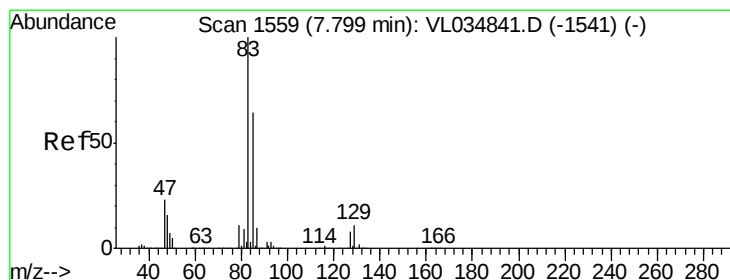
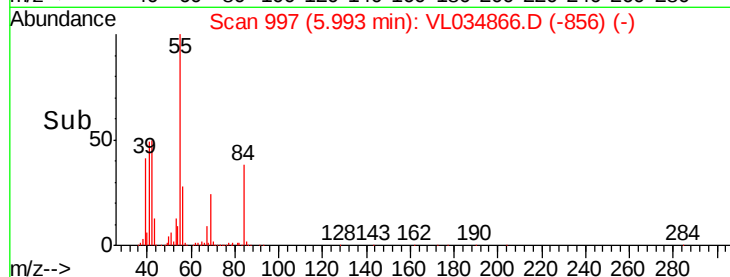
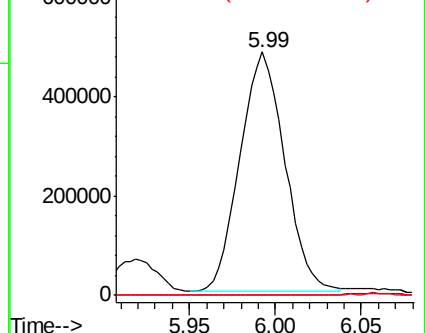
71 0.0 30.1 45.1#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 1.765 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. 0.02 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

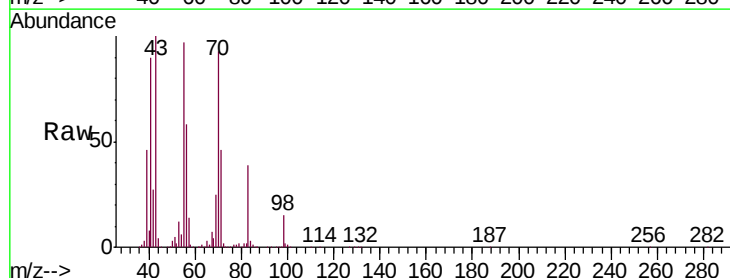
Tgt Ion: 83 Resp: 243710

Ion Ratio Lower Upper

83 100

85 1.4 51.4 77.2#

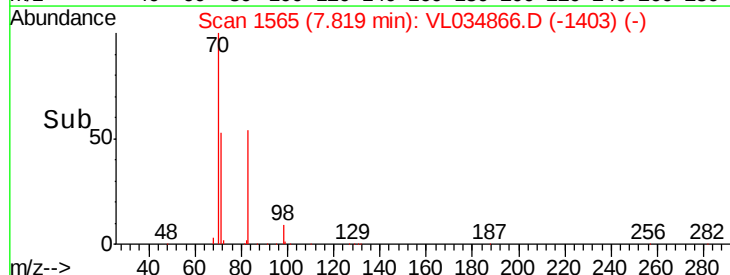
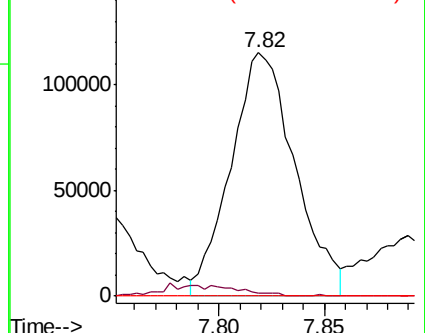
127 0.2 6.2 9.4#

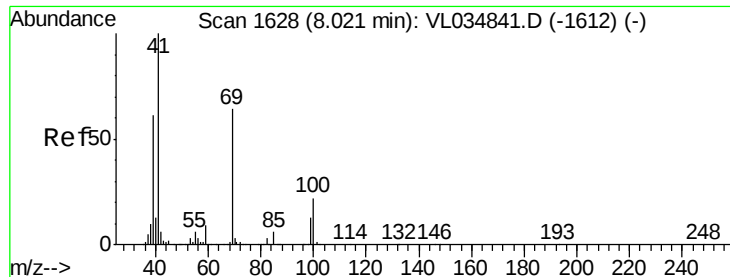


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

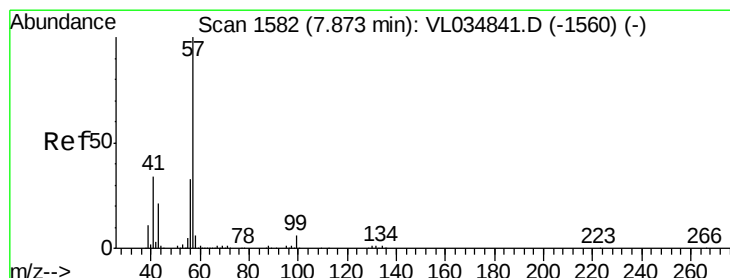
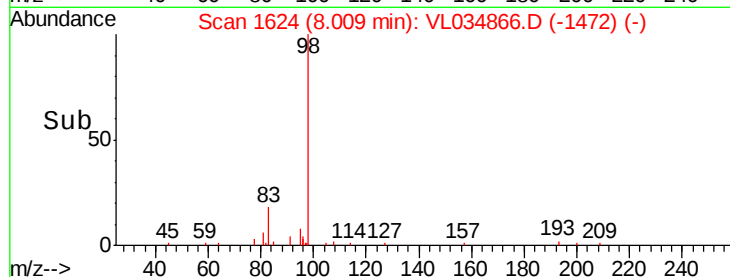
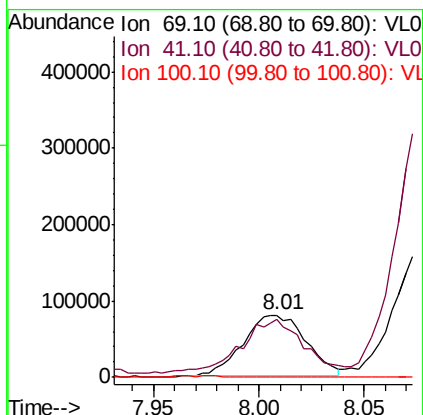
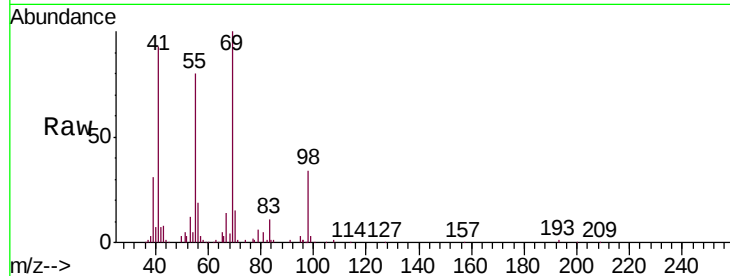




#43
Methyl Methacrylate
Concen: 2.185 ppbv
RT: 8.01 min Scan# 1624
Delta R.T. -0.01 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

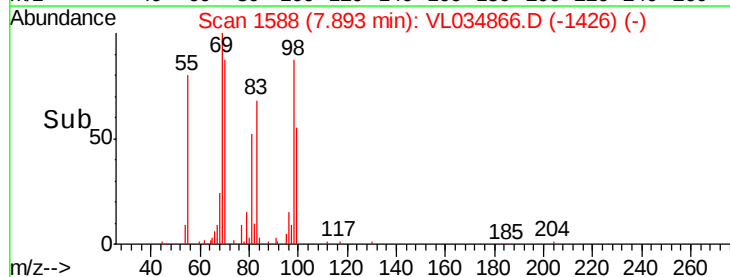
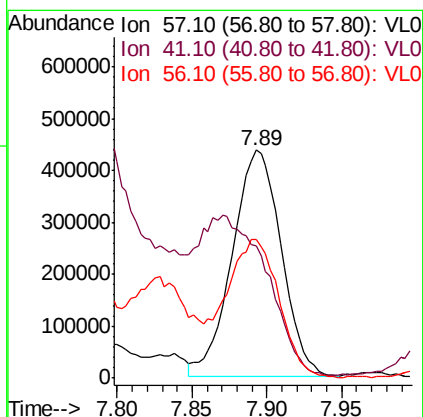
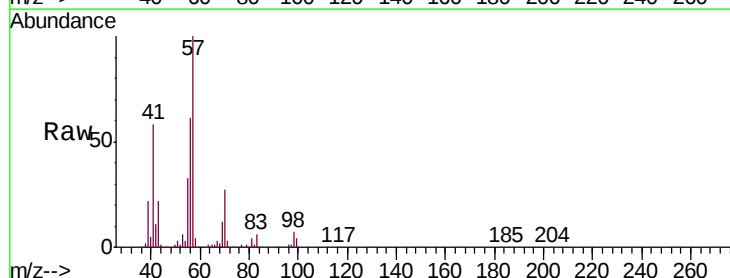
Instrument :
MSVOA_L
ClientSampleId :
O-1

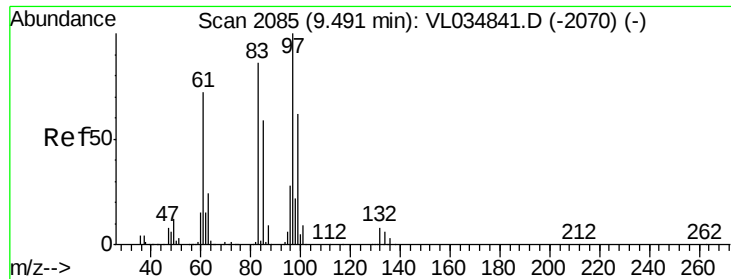
Tgt Ion: 69 Resp: 165414
Ion Ratio Lower Upper
69 100
41 0.0 123.2 184.8#
100 0.0 26.9 40.3#



#44
2,2,4-Trimethylpentane
Concen: 3.267 ppbv
RT: 7.89 min Scan# 1588
Delta R.T. 0.02 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

Tgt Ion: 57 Resp: 991991
Ion Ratio Lower Upper
57 100
41 107.5 26.2 39.4#
56 64.5 25.0 37.4#

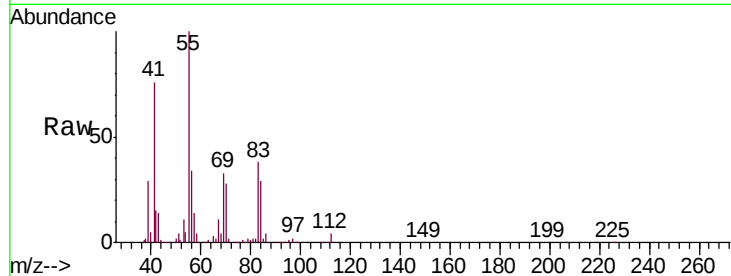




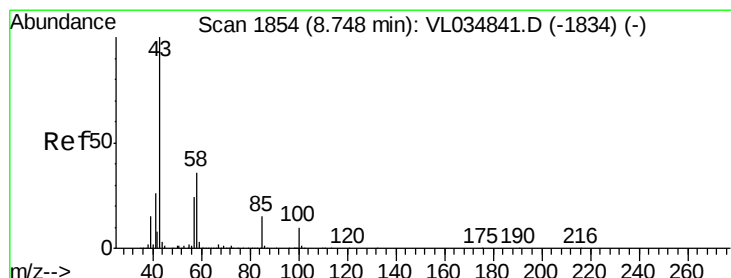
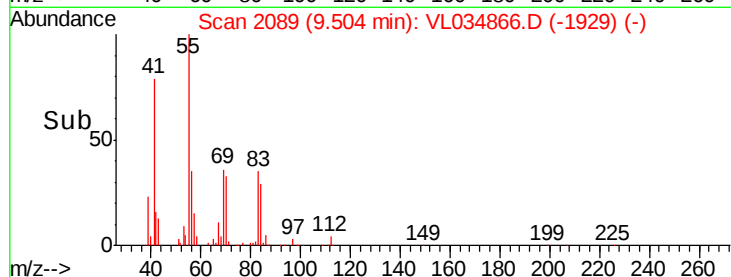
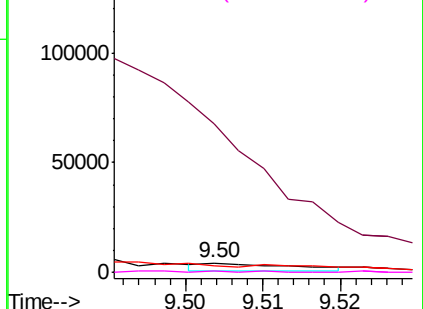
#47
 1,1,2-Trichloroethane
 Concen: 0.034 ppbv
 RT: 9.50 min Scan# 2089
 Delta R.T. 0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Instrument :
 MSVOA_L
 ClientSampleId :
 O-1

Tgt Ion: 97 Resp: 2454
 Ion Ratio Lower Upper
 97 100
 83 2394.9 68.6 102.8#
 85 18.2 46.9 70.3#
 99 19.3 49.9 74.9#

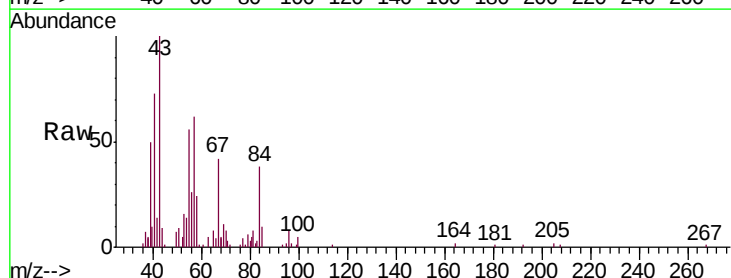


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

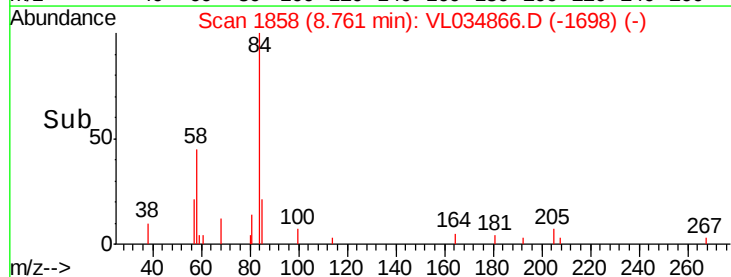
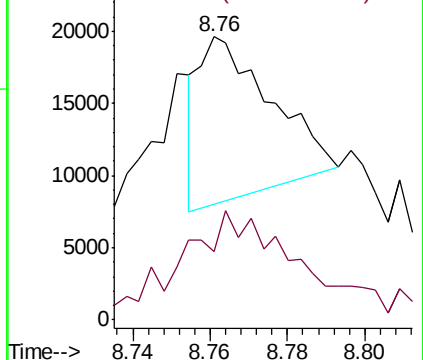


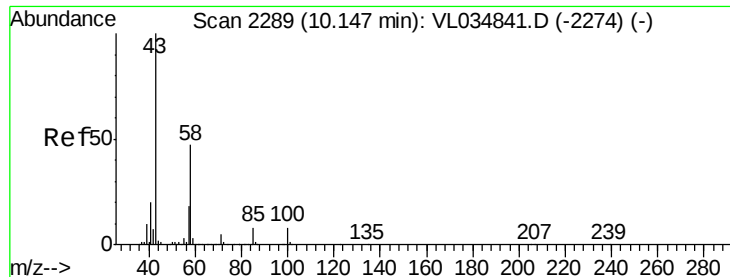
#50
 4-Methyl-2-Pentanone
 Concen: 0.076 ppbv
 RT: 8.76 min Scan# 1858
 Delta R.T. 0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Tgt Ion: 43 Resp: 14682
 Ion Ratio Lower Upper
 43 100
 58 121.4 28.6 42.8#



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

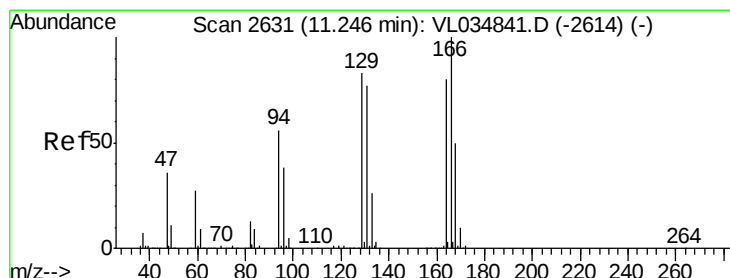
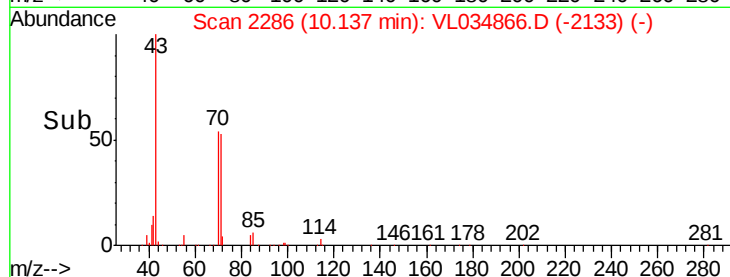
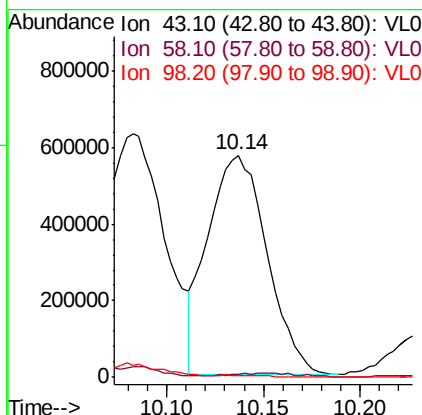
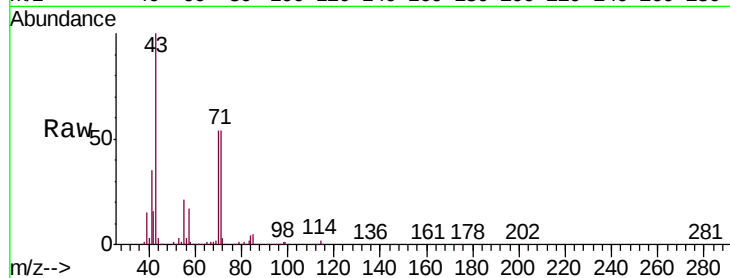




#51
2-Hexanone
Concen: 7.721 ppbv
RT: 10.14 min Scan# 2286
Delta R.T. -0.01 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

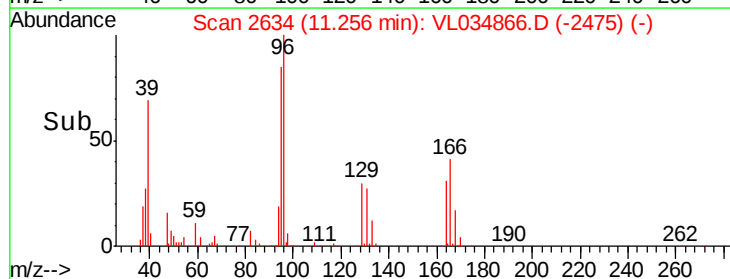
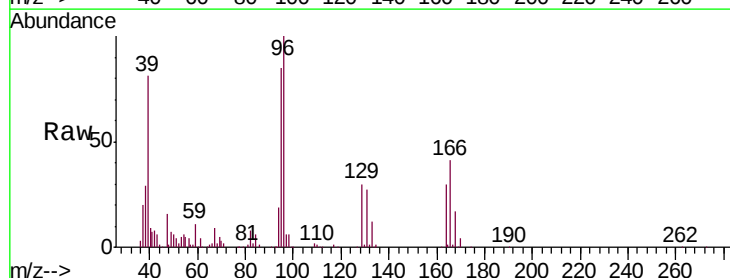
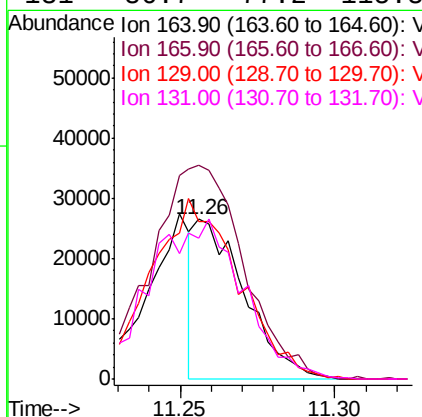
Instrument :
MSVOA_L
ClientSampleId :
O-1

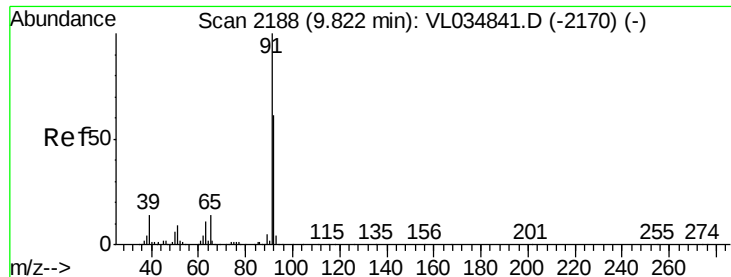
Tgt Ion: 43 Resp: 1210178
Ion Ratio Lower Upper
43 100
58 2.2 38.6 58.0#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.416 ppbv
RT: 11.26 min Scan# 2634
Delta R.T. 0.01 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

Tgt Ion: 164 Resp: 29572
Ion Ratio Lower Upper
164 100
166 133.6 100.0 150.0
129 97.0 83.1 124.7
131 86.7 77.2 115.8





#53

Toluene

Concen: 11.609 ppbv

RT: 9.83 min Scan# 2191

Delta R.T. 0.01 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

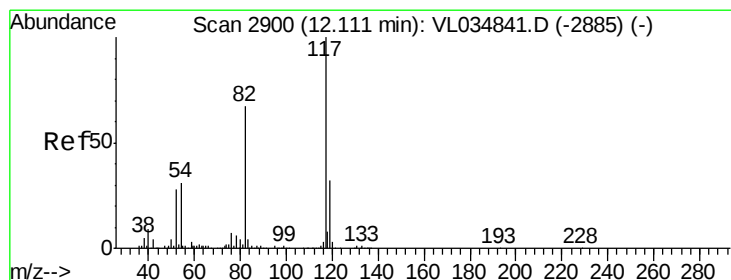
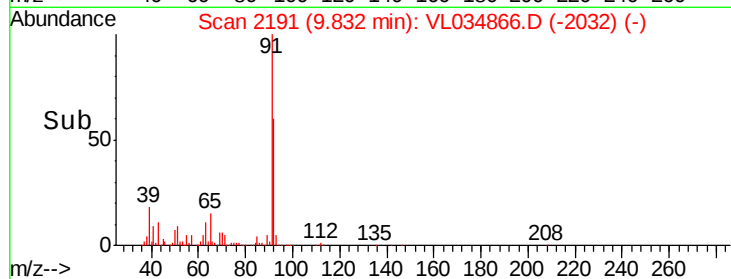
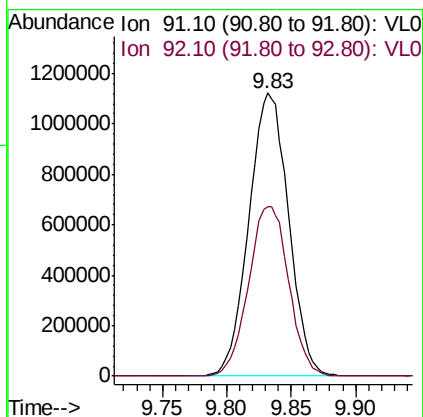
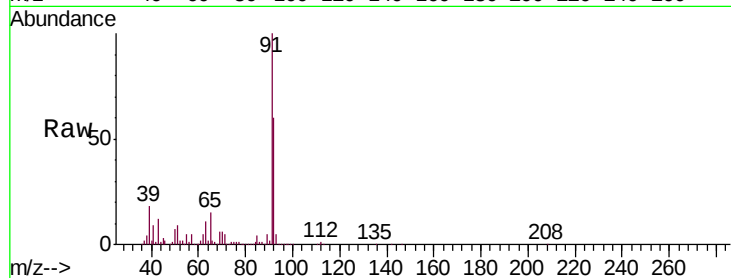
O-1

Tgt Ion: 91 Resp: 2408954

Ion Ratio Lower Upper

91 100

92 60.5 48.6 72.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2901

Delta R.T. 0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

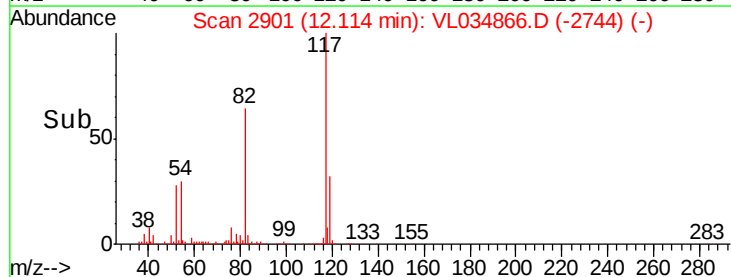
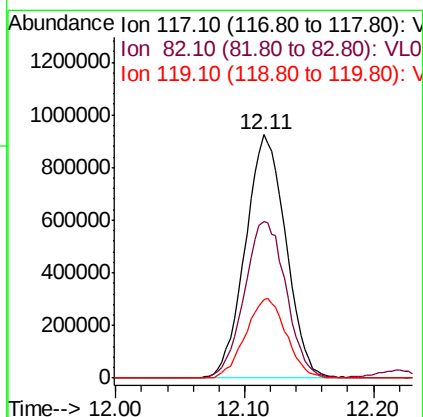
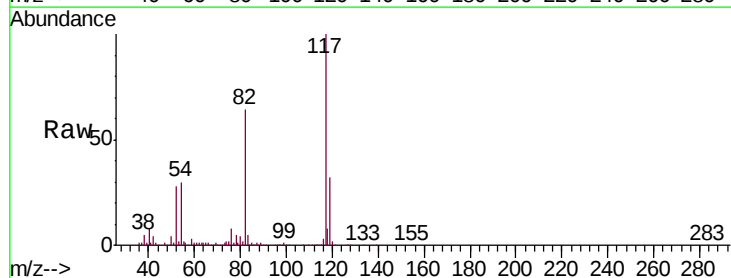
Tgt Ion: 117 Resp: 2019785

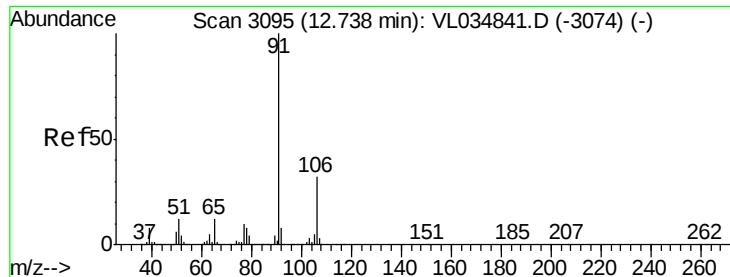
Ion Ratio Lower Upper

117 100

82 66.4 51.1 76.7

119 33.0 27.3 40.9





#58

Ethyl Benzene

Concen: 1.717 ppbv

RT: 12.74 min Scan# 3096

Delta R.T. 0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

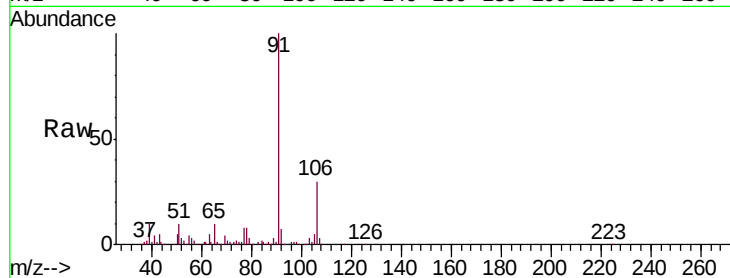
O-1

Tgt Ion: 91 Resp: 469615

Ion Ratio Lower Upper

91 100

106 29.8 25.8 38.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.74

200000

150000

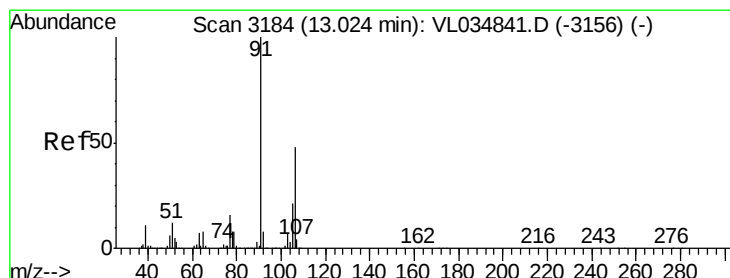
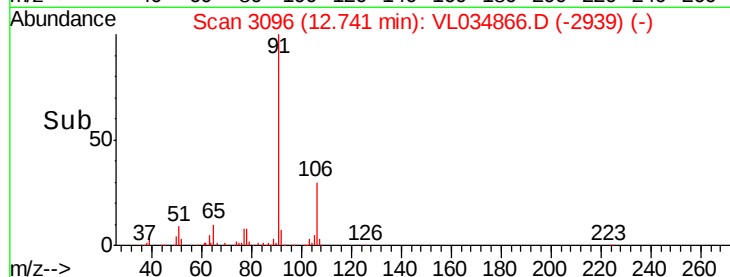
100000

50000

0

12.70 12.80

Time-->



#59

m/p-Xylene

Concen: 11.952 ppbv

RT: 13.00 min Scan# 3175

Delta R.T. -0.03 min

Lab File: VL034866.D

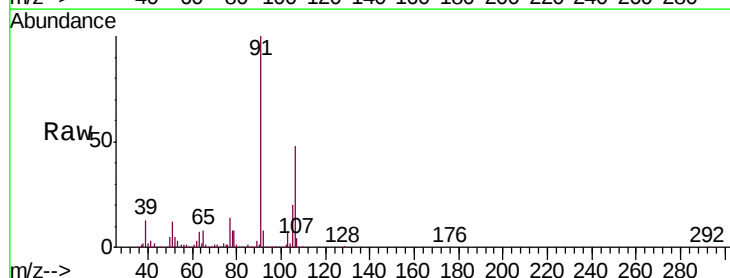
Acq: 10 Mar 2020 15:01

Tgt Ion: 91 Resp: 2738910

Ion Ratio Lower Upper

91 100

106 47.4 37.1 55.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.00

1200000

1000000

800000

600000

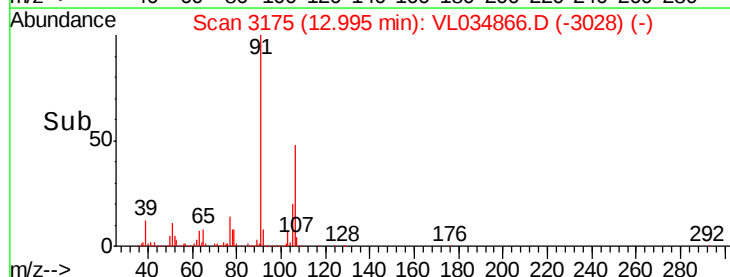
400000

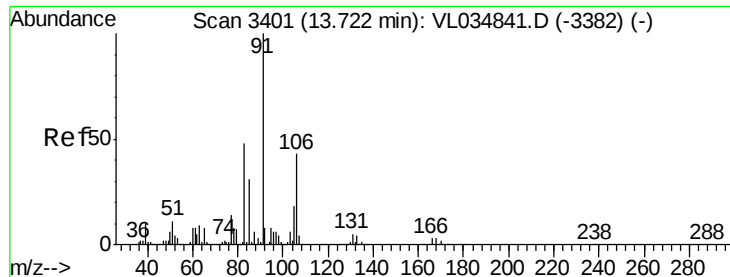
200000

0

12.90 13.00 13.10

Time-->

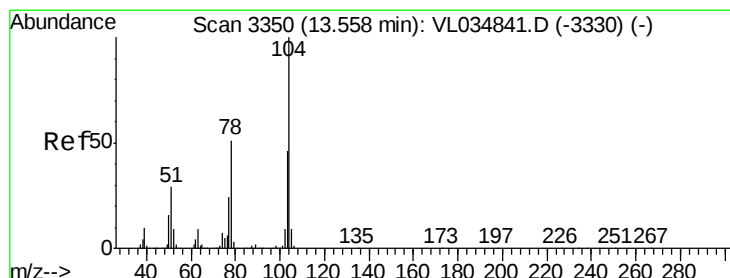
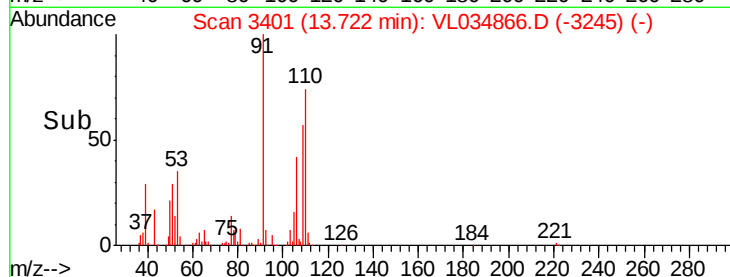
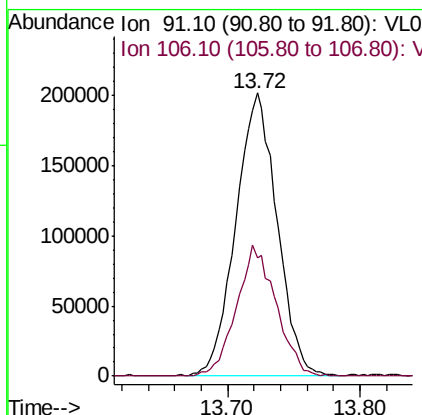
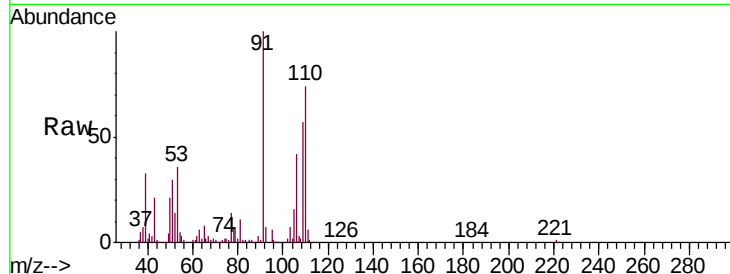




#60
o-Xylene
Concen: 1.936 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

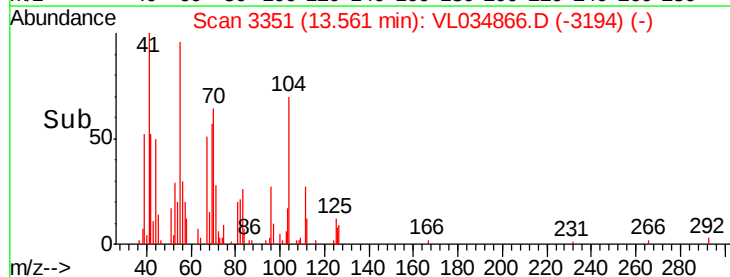
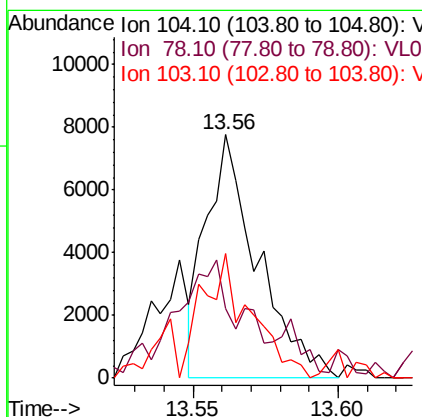
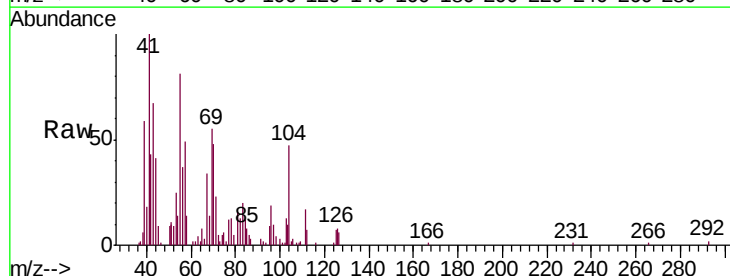
Instrument :
MSVOA_L
ClientSampleId :
O-1

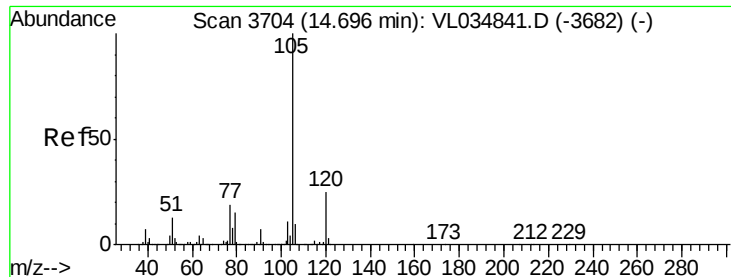
Tgt Ion: 91 Resp: 433216
Ion Ratio Lower Upper
91 100
106 44.5 22.5 67.5



#61
Styrene
Concen: 0.061 ppbv
RT: 13.56 min Scan# 3351
Delta R.T. 0.00 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

Tgt Ion: 104 Resp: 9594
Ion Ratio Lower Upper
104 100
78 89.1 41.8 62.6#
103 64.4 37.8 56.6#





#62

Isopropylbenzene

Concen: 0.091 ppbv

RT: 14.70 min Scan# 3706

Delta R.T. 0.01 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

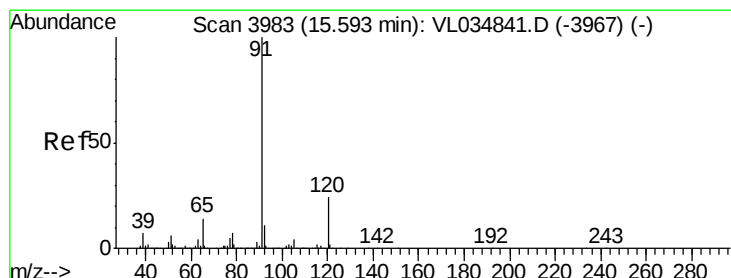
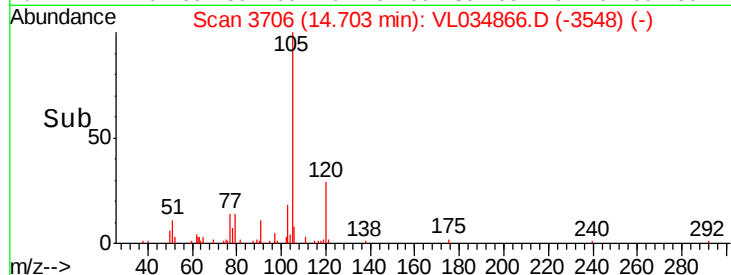
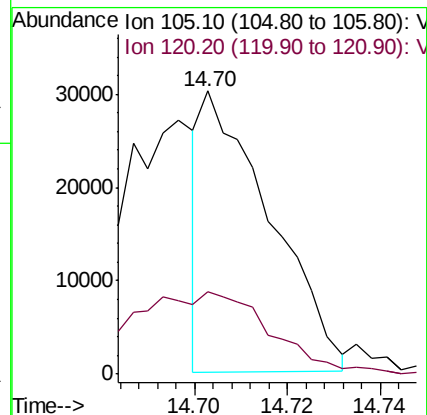
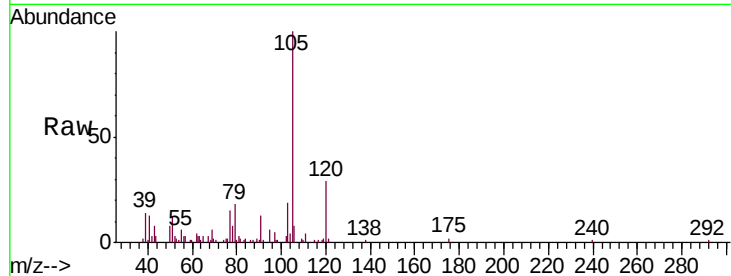
O-1

Tgt Ion:105 Resp: 30681

Ion Ratio Lower Upper

105 100

120 64.0 21.0 31.4#



#64

n-propylbenzene

Concen: 0.610 ppbv

RT: 15.59 min Scan# 3983

Delta R.T. 0.00 min

Lab File: VL034866.D

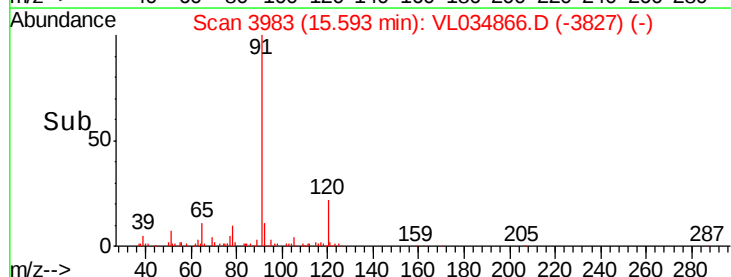
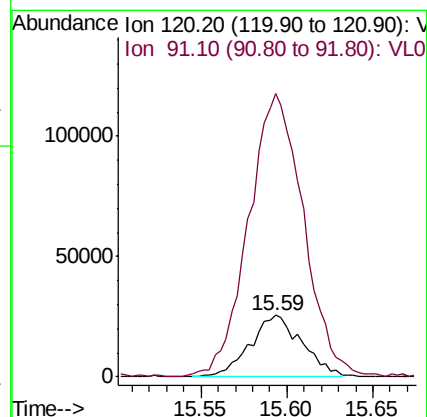
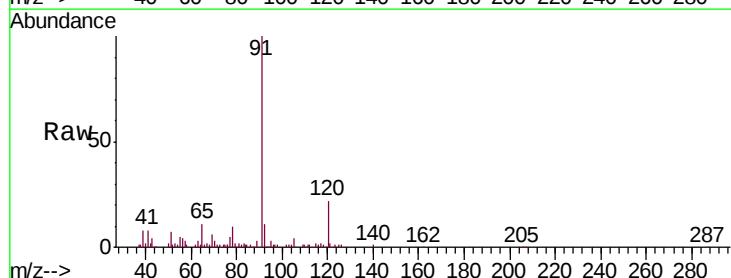
Acq: 10 Mar 2020 15:01

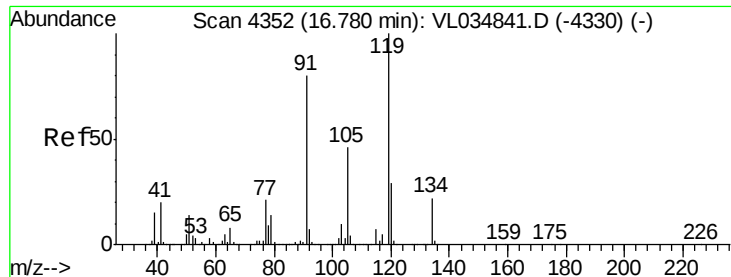
Tgt Ion:120 Resp: 53738

Ion Ratio Lower Upper

120 100

91 485.1 360.9 541.3

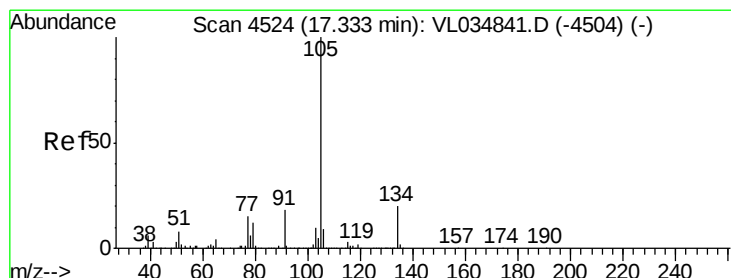
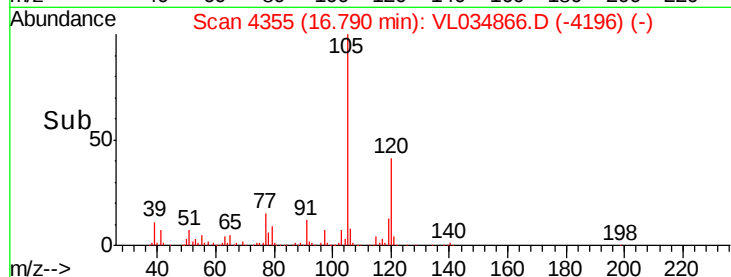
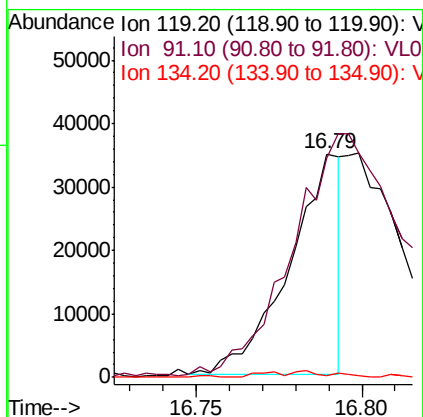
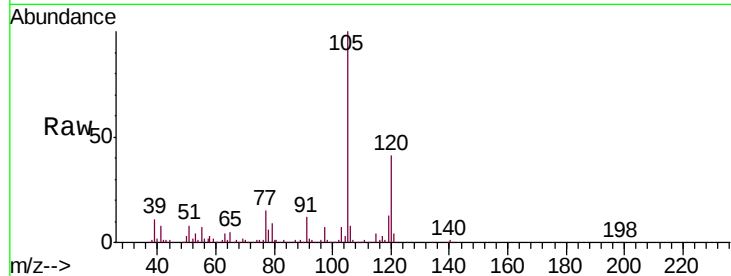




#65
tert-Butylbenzene
Concen: 0.127 ppbv
RT: 16.79 min Scan# 4355
Delta R.T. 0.01 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

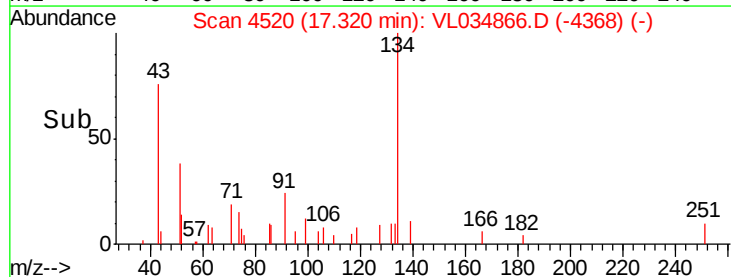
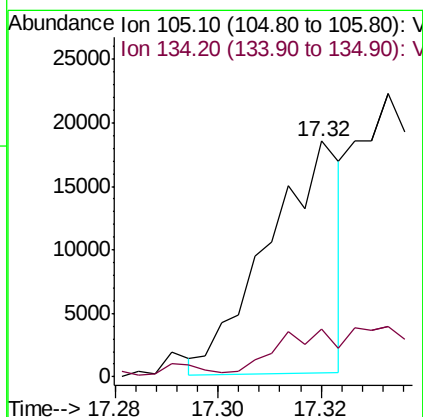
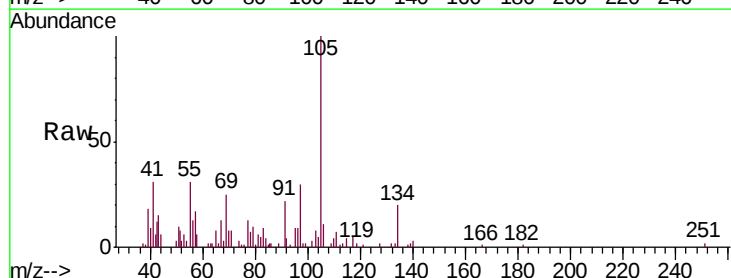
Instrument :
MSVOA_L
ClientSampleId :
O-1

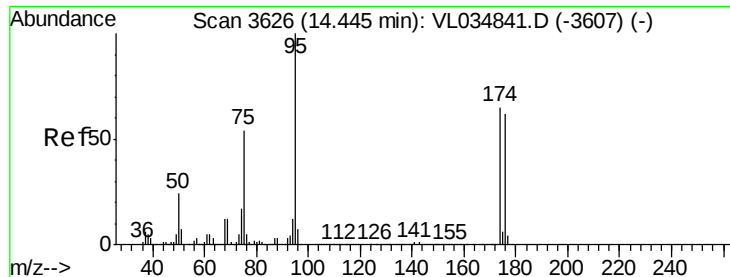
Tgt Ion:119 Resp: 37528
Ion Ratio Lower Upper
119 100
91 14.5 64.9 97.3#
134 4.1 15.9 23.9#



#67
sec-Butylbenzene
Concen: 0.044 ppbv
RT: 17.32 min Scan# 4520
Delta R.T. -0.01 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

Tgt Ion:105 Resp: 17849
Ion Ratio Lower Upper
105 100
134 21.2 15.0 22.6

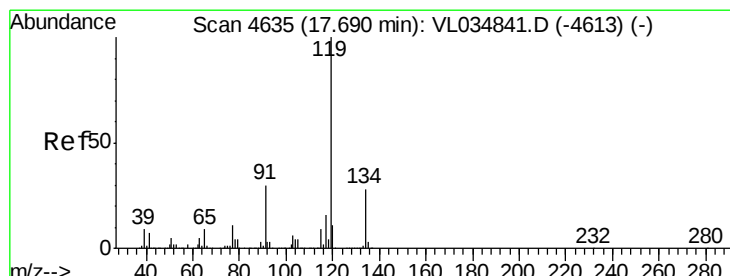
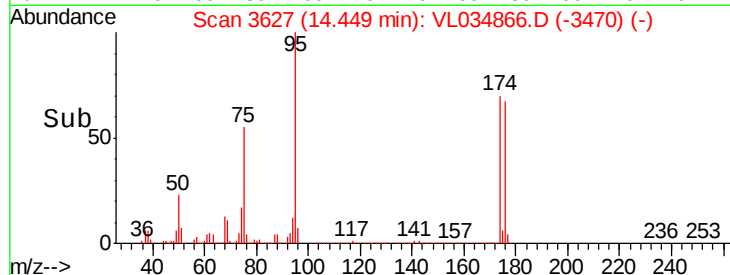
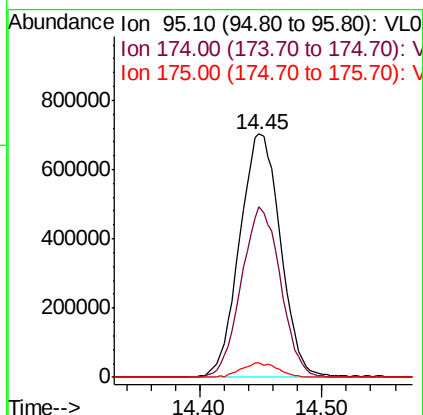
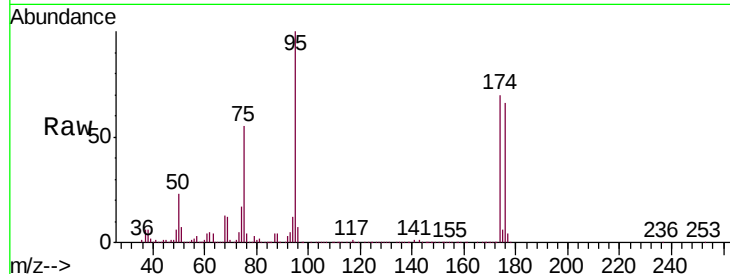




#68
1-Bromo-4-Fluorobenzene
Concen: 10.277 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. 0.00 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

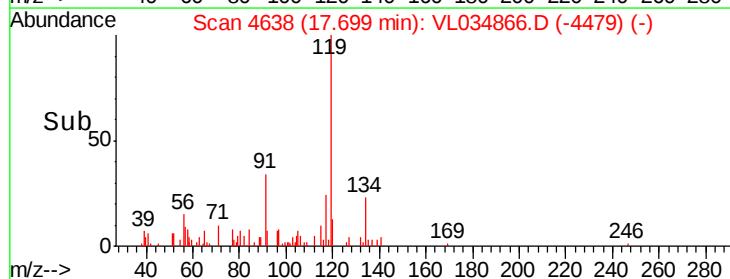
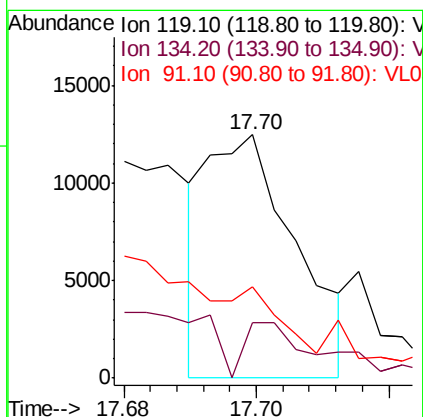
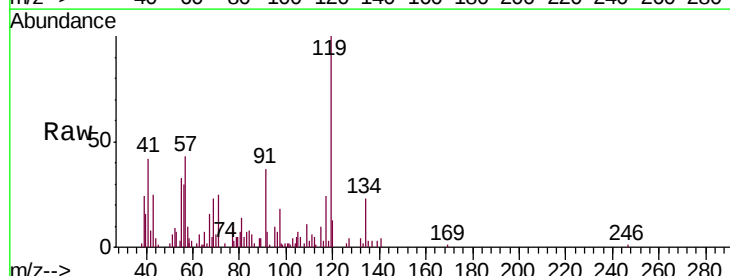
Instrument :
MSVOA_L
ClientSampleId :
O-1

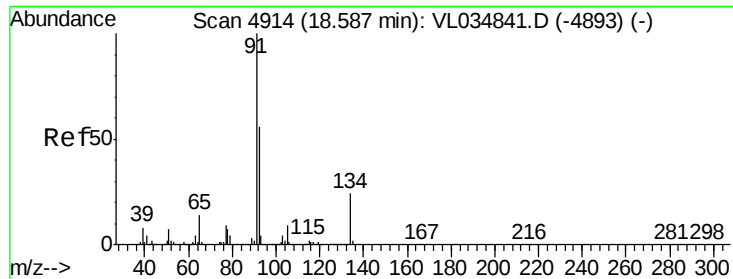
Tgt Ion: 95 Resp: 1618765
Ion Ratio Lower Upper
95 100
174 67.5 55.2 82.8
175 5.3 4.3 6.5



#69
p-Isopropyltoluene
Concen: 0.034 ppbv
RT: 17.70 min Scan# 4638
Delta R.T. 0.01 min
Lab File: VL034866.D
Acq: 10 Mar 2020 15:01

Tgt Ion: 119 Resp: 11594
Ion Ratio Lower Upper
119 100
134 0.0 20.6 30.8#
91 0.0 23.4 35.2#





#70

n-Butylbenzene

Concen: 0.113 ppbv

RT: 18.59 min Scan# 4916

Delta R.T. 0.01 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampled :

O-1

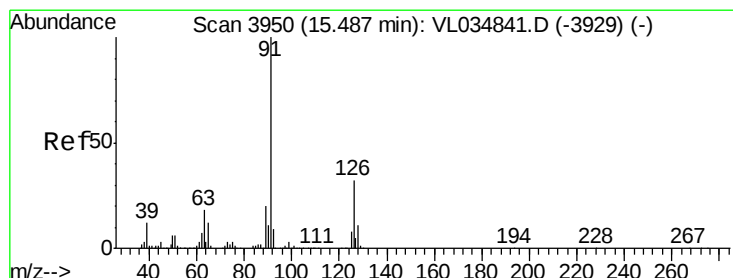
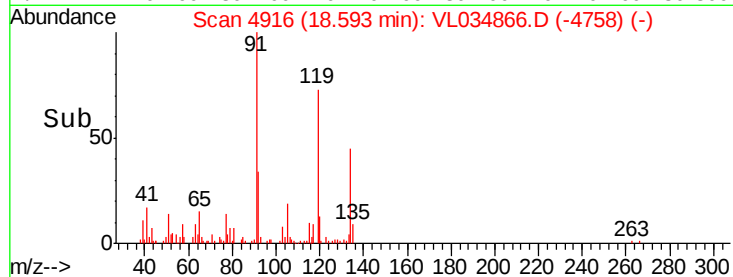
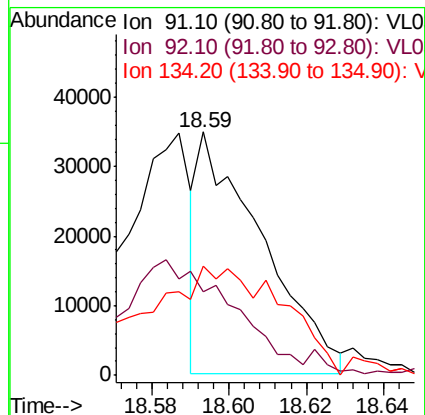
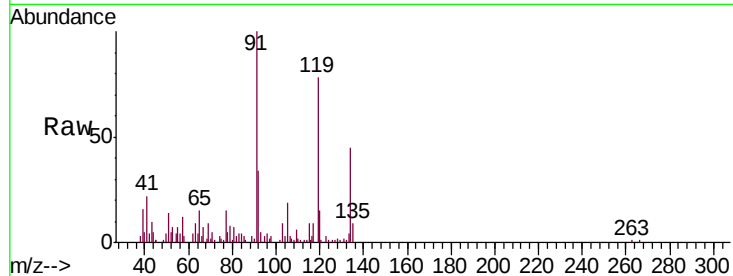
Tgt Ion: 91 Resp: 39474

Ion Ratio Lower Upper

91 100

92 0.0 43.8 65.6#

134 101.1 19.0 28.4#



#71

2-Chlorotoluene

Concen: 0.011 ppbv

RT: 15.36 min Scan# 3909

Delta R.T. -0.13 min

Lab File: VL034866.D

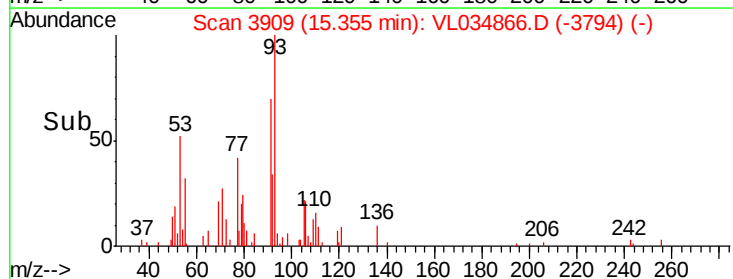
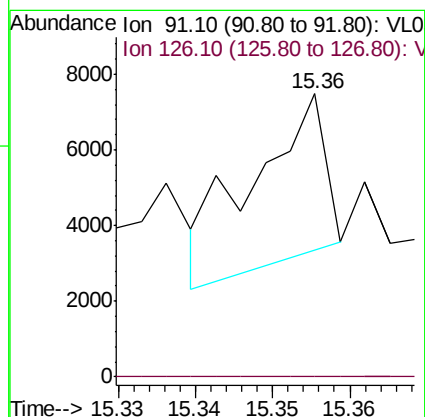
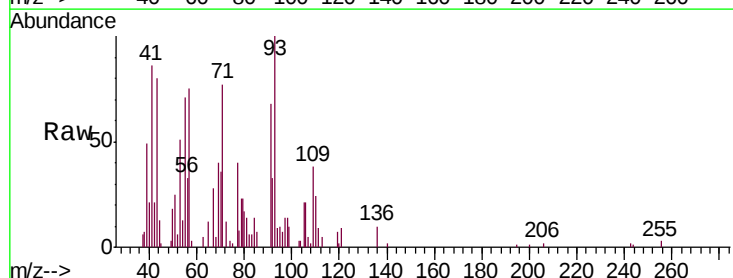
Acq: 10 Mar 2020 15:01

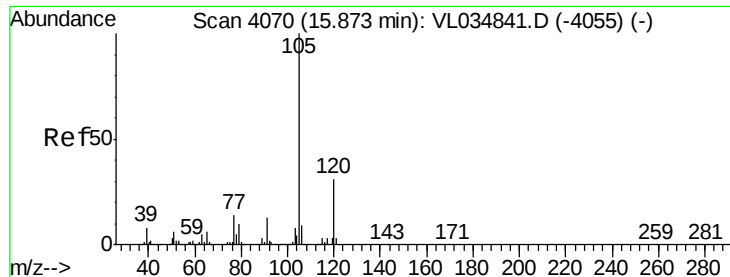
Tgt Ion: 91 Resp: 2841

Ion Ratio Lower Upper

91 100

126 64.4 12.3 49.1#





#72

4-Ethyltoluene

Concen: 0.970 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

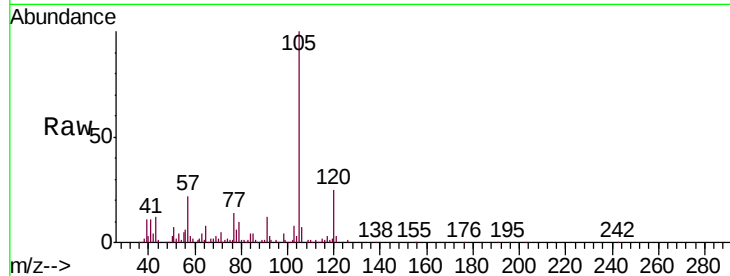
Instrument :

MSVOA_L

ClientSampled :

O-1

Tgt Ion:	105	Resp:	256426
Ion	Ratio	Lower	Upper
105	100		
120	28.1	23.7	35.5
91	12.9	10.5	15.7
77	14.1	11.1	16.7

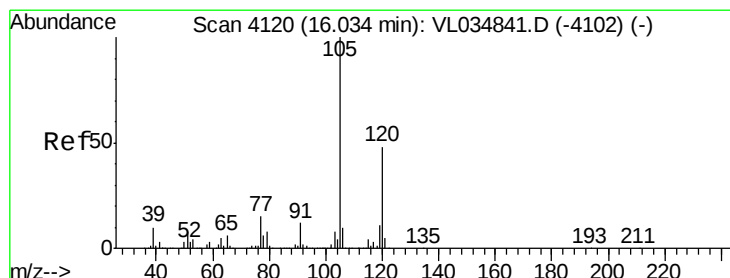
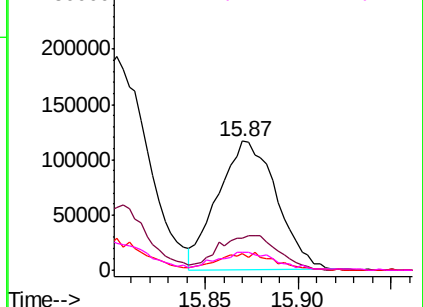
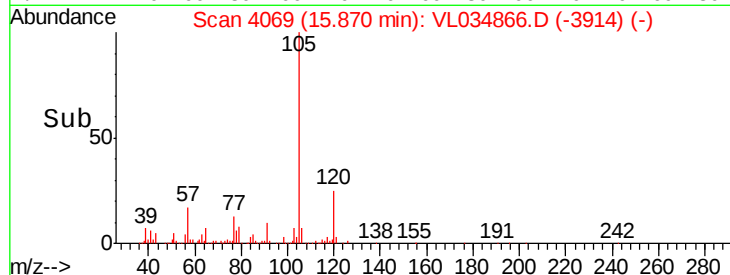


Abundance Ion 105.10 (104.80 to 105.80): V

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



#73

1,3,5-Trimethylbenzene

Concen: 0.457 ppbv

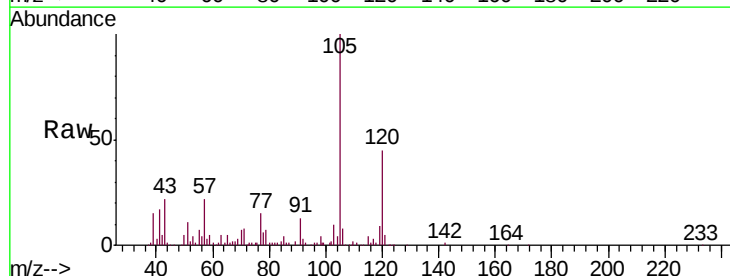
RT: 16.03 min Scan# 4120

Delta R.T. 0.00 min

Lab File: VL034866.D

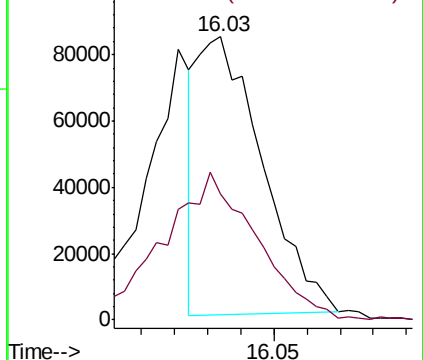
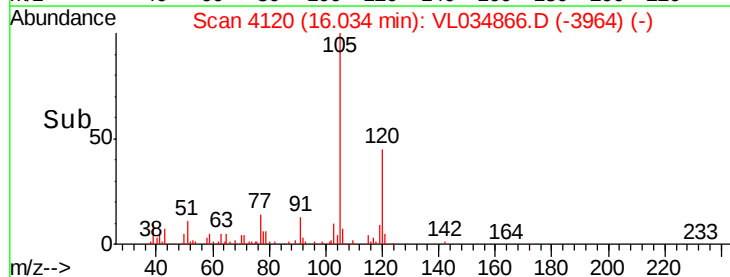
Acq: 10 Mar 2020 15:01

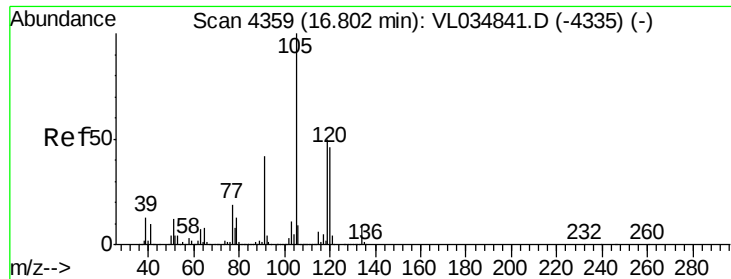
Tgt Ion:	105	Resp:	113035
Ion	Ratio	Lower	Upper
105	100		
120	45.1	38.6	58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

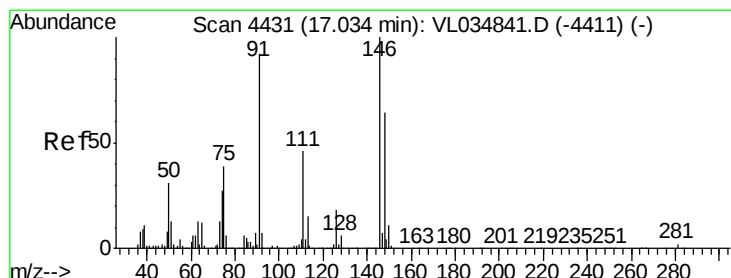
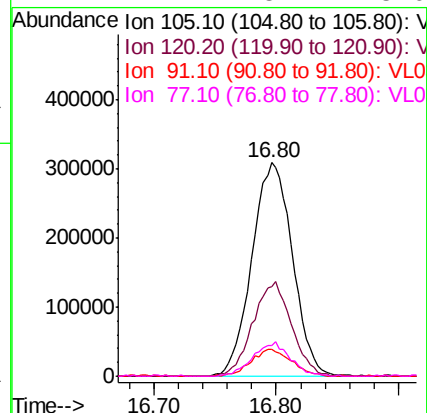
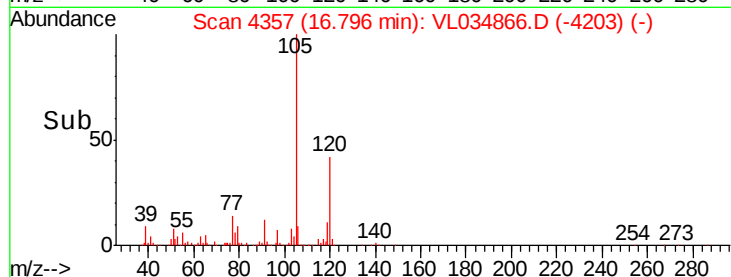
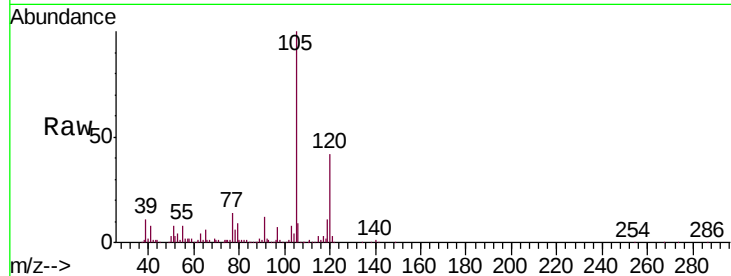




#74
 1,2,4-Trimethylbenzene
 Concen: 2.785 ppbv
 RT: 16.80 min Scan# 4357
 Delta R.T. -0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

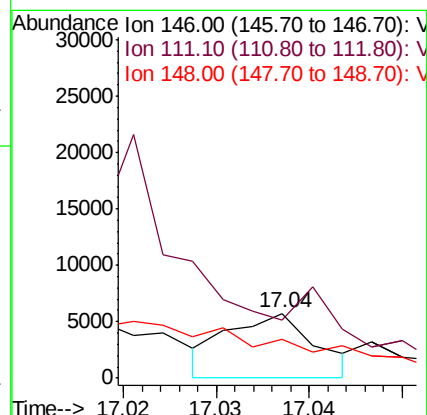
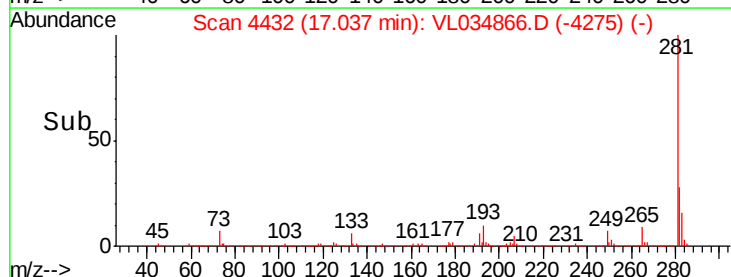
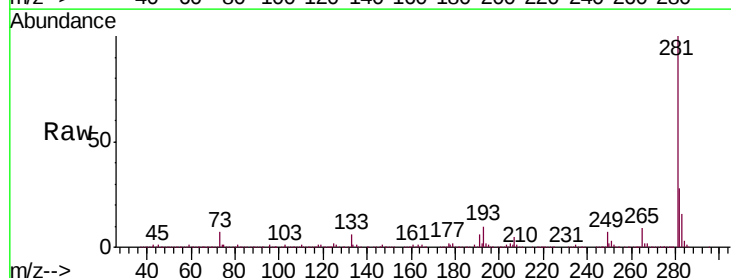
Instrument :
 MSVOA_L
 ClientSampleId :
 O-1

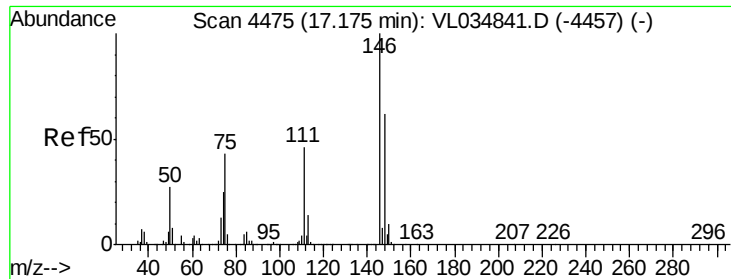
Tgt Ion:	105	Resp:	709705
Ion	Ratio	Lower	Upper
105	100		
120	42.2	37.0	55.4
91	12.4	33.8	50.6#
77	14.1	15.4	23.0#



#75
 1,3-Dichlorobenzene
 Concen: 0.025 ppbv
 RT: 17.04 min Scan# 4432
 Delta R.T. 0.00 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Tgt Ion:	146	Resp:	3773
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.9	71.7#
148	0.0	32.5	97.5#

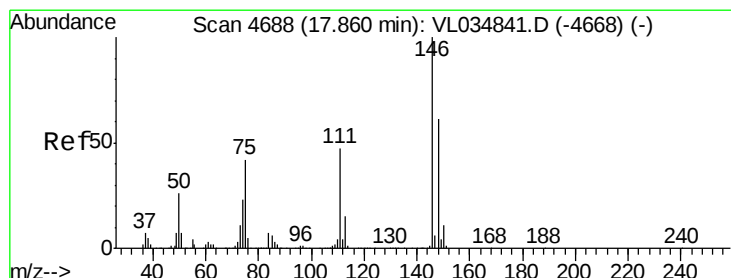
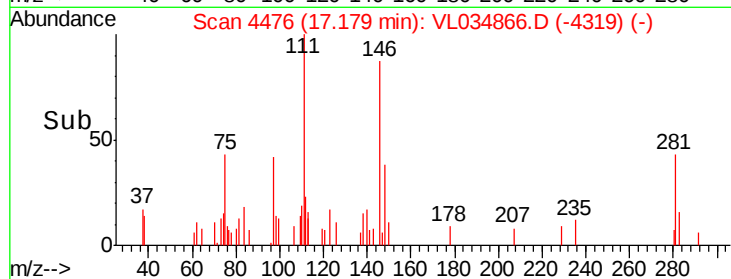
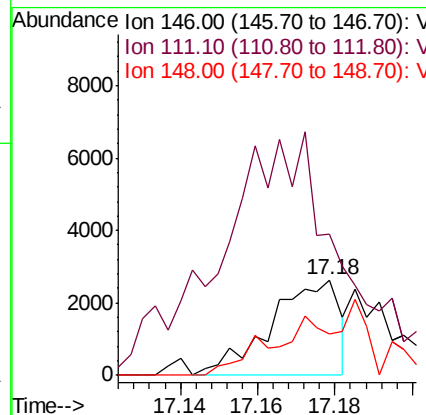
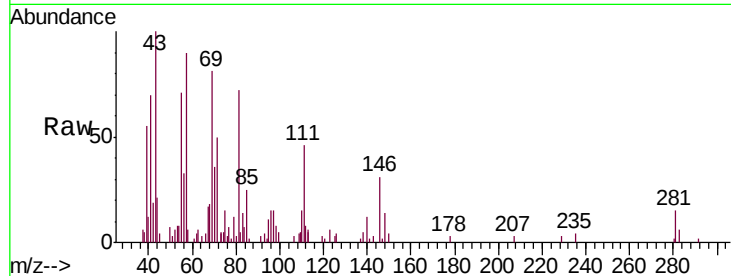




#76
 1,4-Dichlorobenzene
 Concen: 0.021 ppbv
 RT: 17.18 min Scan# 4476
 Delta R.T. 0.00 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

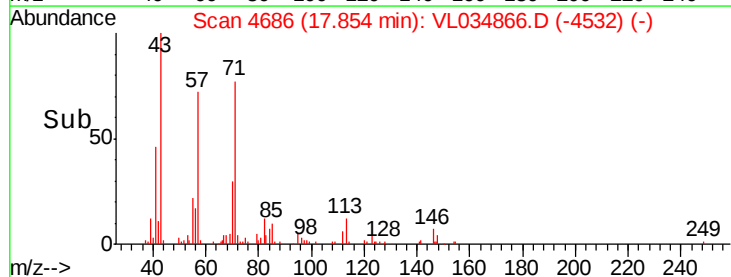
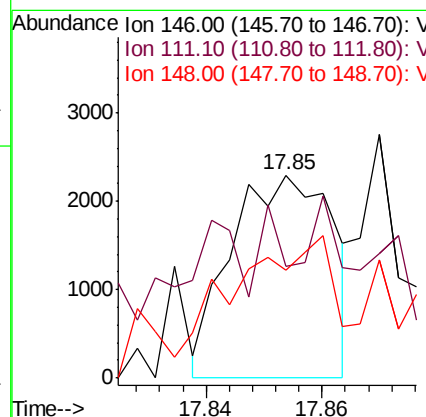
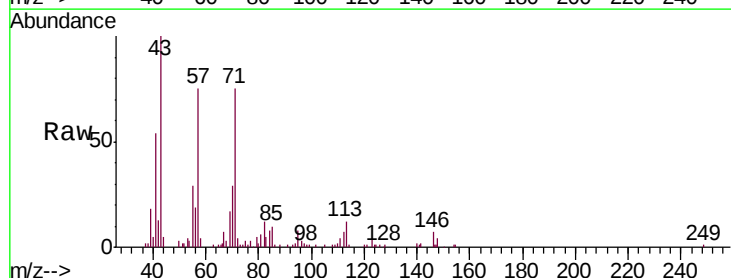
Instrument :
 MSVOA_L
 ClientSampled :
 O-1

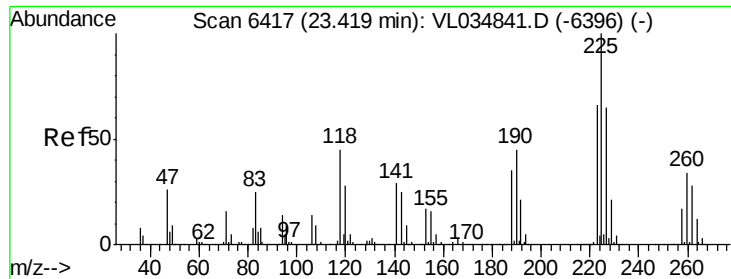
Tgt Ion:146 Resp: 3252
 Ion Ratio Lower Upper
 146 100
 111 479.6 23.4 70.2#
 148 0.0 32.3 96.9#



#77
 1,2-Dichlorobenzene
 Concen: 0.019 ppbv
 RT: 17.85 min Scan# 4686
 Delta R.T. -0.01 min
 Lab File: VL034866.D
 Acq: 10 Mar 2020 15:01

Tgt Ion:146 Resp: 2796
 Ion Ratio Lower Upper
 146 100
 111 155.7 23.8 71.4#
 148 107.1 31.6 94.8#





#78

Hexachloro-1,3-Butadiene

Concen: 0.109 ppbv

RT: 23.42 min Scan# 6417

Delta R.T. 0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampled :

O-1

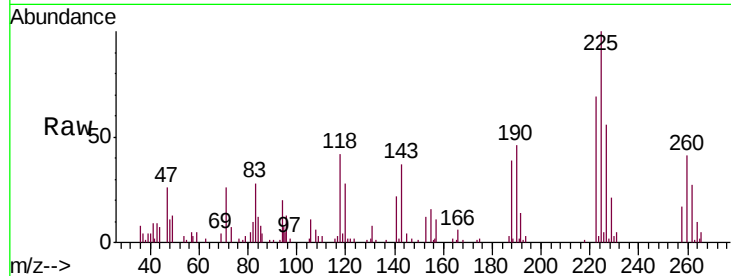
Tgt Ion:225 Resp: 13519

Ion Ratio Lower Upper

225 100

223 155.7 51.1 76.7#

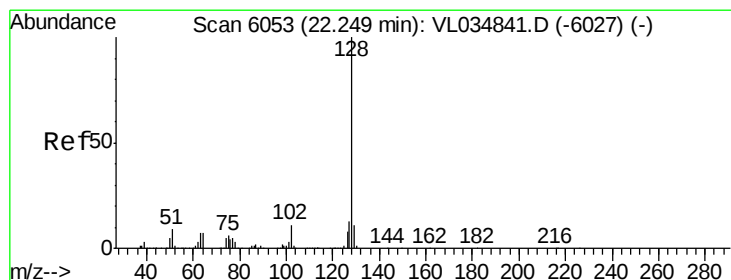
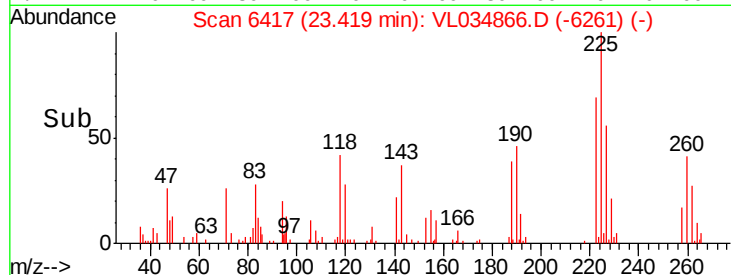
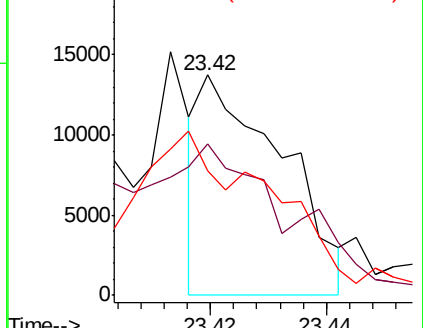
227 149.9 51.8 77.6#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.067 ppbv

RT: 22.26 min Scan# 6055

Delta R.T. 0.01 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

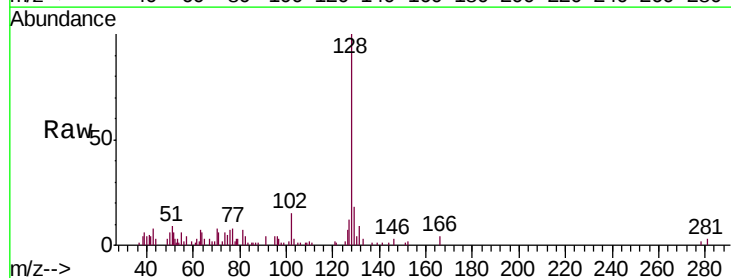
Tgt Ion:128 Resp: 13232

Ion Ratio Lower Upper

128 100

127 14.2 10.2 15.2

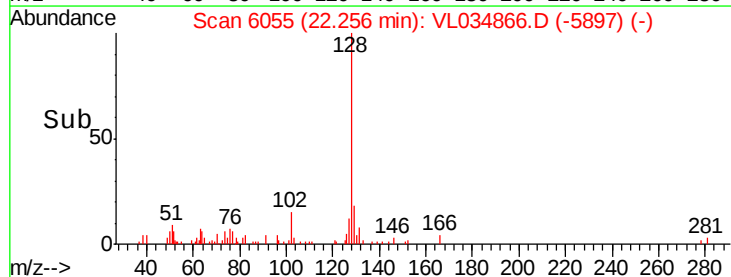
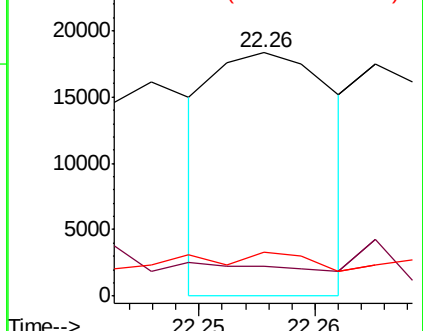
129 45.9 8.6 13.0#

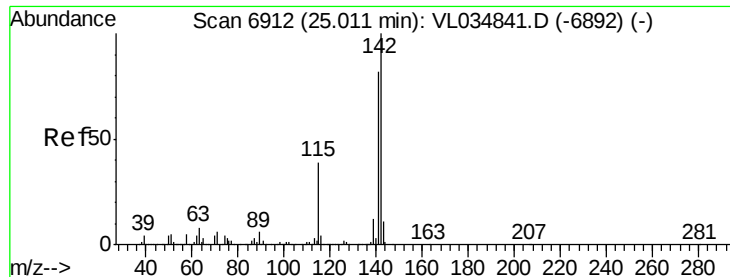


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.284 ppbv

RT: 25.01 min Scan# 6912

Delta R.T. 0.00 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

O-1

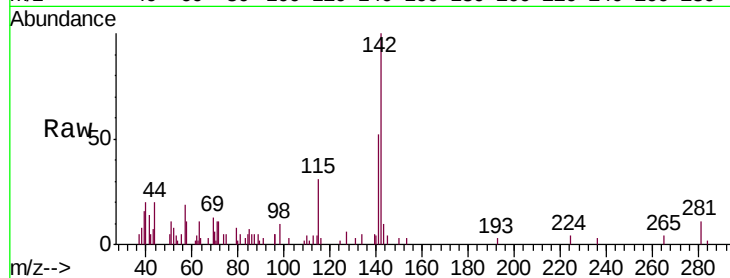
Tgt Ion:142 Resp: 14774

Ion Ratio Lower Upper

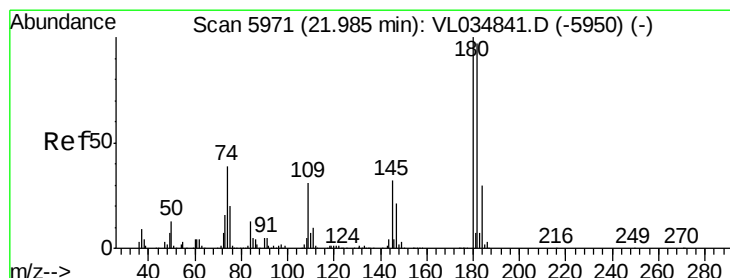
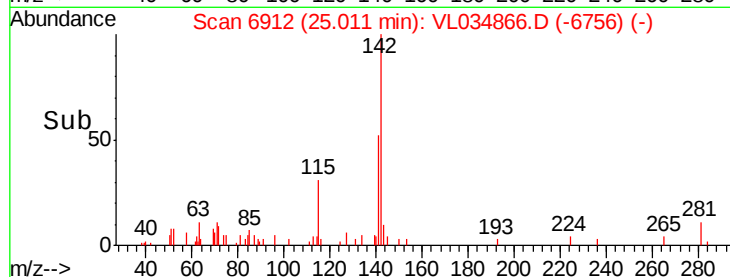
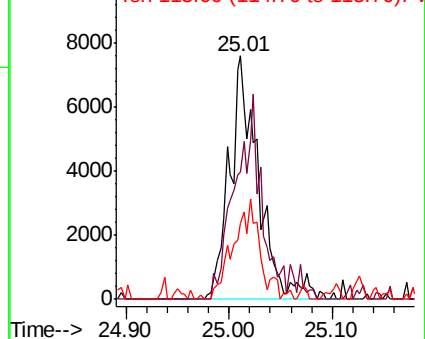
142 100

141 81.3 68.9 103.3

115 39.2 33.2 49.8



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.022 ppbv

RT: 21.99 min Scan# 5973

Delta R.T. 0.01 min

Lab File: VL034866.D

Acq: 10 Mar 2020 15:01

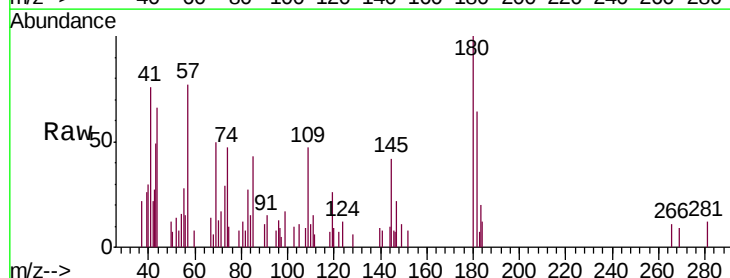
Tgt Ion:180 Resp: 2831

Ion Ratio Lower Upper

180 100

182 0.0 76.6 115.0#

184 0.0 25.0 37.4#



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

