

Data File : VL034803.D
Acq On : 5 Mar 2020 19:48
Operator : SY/AP
Sample : L1698-04DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

Quant Time: Mar 06 03:46:01 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	826316	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	578707	10.00	ppbv	0.08
55) Chlorobenzene-d5	12.27	117	989987	10.00	ppbv	0.12

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	2065056	25.02	ppbv	0.08
Spiked Amount	10.000	Range	65 - 135	Recovery	=	250.20%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.01	85	5684	0.042	ppbv #	72
3) Chlorodifluoromethane	2.98	51	61721	0.656	ppbv #	61
4) Chloromethane	3.16	50	21845	0.431	ppbv #	66
5) Vinyl Chloride	3.21	62	7382384	137.815	ppbv #	50
7) Chloroethane	3.85	64	36933	1.994	ppbv #	1
9) Propene	2.96	41	3590364	96.893	ppbv	91
10) Heptane	8.06	43	10762809	114.288	ppbv #	1
11) Trichlorofluoromethane	3.93	101	58159	0.482	ppbv	94
13) Ethanol	3.56	45	326105	25.685	ppbv	98
15) Acetone	3.85	43	25817710	260.915	ppbv #	78
16) 1,3-Butadiene	3.31	39	5096530	113.838	ppbv #	11
17) tert-Butyl alcohol	4.28	59	416133	5.333	ppbv #	71
19) Isopropyl Alcohol	3.93	45	1378726	23.255	ppbv #	93
20) Methylene Chloride	4.31	84	596639	16.894	ppbv #	23
21) Allyl Chloride	4.38	41	15420052	246.080	ppbv #	27
22) trans-1,2-Dichloroethene	4.90	96	83009	2.316	ppbv #	4
23) Vinyl Acetate	5.21	43	44268307	333.629	ppbv #	1
24) 1,1-Dichloroethane	5.02	63	234577	2.278	ppbv	99
25) Ethyl Acetate	5.87	43	49229789	287.905	ppbv #	75
26) Hexane	5.87	57	52639926	704.680	ppbv #	42
27) Carbon Disulfide	4.56	76	89165	1.022	ppbv #	67
28) Methyl tert-Butyl Ether	5.05	73	6424	0.058	ppbv #	52
29) Chloroform	5.60	83	8245	0.066	ppbv	92
30) Cyclohexane	7.07	84	451524	7.901	ppbv #	1
31) cis-1,2-Dichloroethene	5.57	61	671606	8.766	ppbv	98
34) 2-Butanone	5.21	43	44268307	1175.809	ppbv	99
36) Benzene	7.02	78	35126154	710.323	ppbv #	19
37) 1,2-Dichloroethane	6.43	62	228852	6.775	ppbv #	1
38) Trichloroethene	7.97	130	17723	0.920	ppbv #	56
39) 1,2-Dichloropropane	7.74	63	7501	0.376	ppbv #	1
40) 1,4-Dioxane	7.95	88	447	0.065	ppbv #	1
41) Tetrahydrofuran	6.11	42	5418324	282.058	ppbv #	36
42) Bromodichloromethane	7.90	83	1488173	34.821	ppbv #	28
43) Methyl Methacrylate	8.14	69	405084	19.331	ppbv #	1
44) 2,2,4-Trimethylpentane	8.08	57	14849457	171.835	ppbv #	1
45) t-1,3-Dichloropropene	9.42	75	989	0.045	ppbv #	1
46) cis-1,3-Dichloropropene	8.85	75	25426	0.947	ppbv #	1
47) 1,1,2-Trichloroethane	9.69	97	5055102	239.926	ppbv #	1
50) 4-Methyl-2-Pentanone	8.87	43	2189323	40.584	ppbv #	71
51) 2-Hexanone	10.34	43	11804213	278.944	ppbv #	40
52) Tetrachloroethene	11.41	164	4099	0.224	ppbv #	29

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) Toluene	10.03	91	22318065	426.426	ppbv #	83
57) Chlorobenzene	12.35	112	6041	0.080	ppbv #	65
58) Ethyl Benzene	12.91	91	1269171	10.403	ppbv	98
59) m/p-Xylene	13.18	91	2169990	20.547	ppbv	99
60) o-Xylene	13.87	91	969195	9.070	ppbv	93
63) 1,1,2,2-Tetrachloroethane	13.85	83	3928853	46.643	ppbv #	24
64) n-propylbenzene	15.65	120	3256	0.083	ppbv	93
71) 2-Chlorotoluene	15.67	91	116468	0.981	ppbv	96
72) 4-Ethyltoluene	16.10	105	176297	1.482	ppbv #	79
73) 1,3,5-Trimethylbenzene	16.10	105	176297	1.545	ppbv	94
74) 1,2,4-Trimethylbenzene	16.85	105	212077	1.710	ppbv #	67

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

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ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SS-4-4

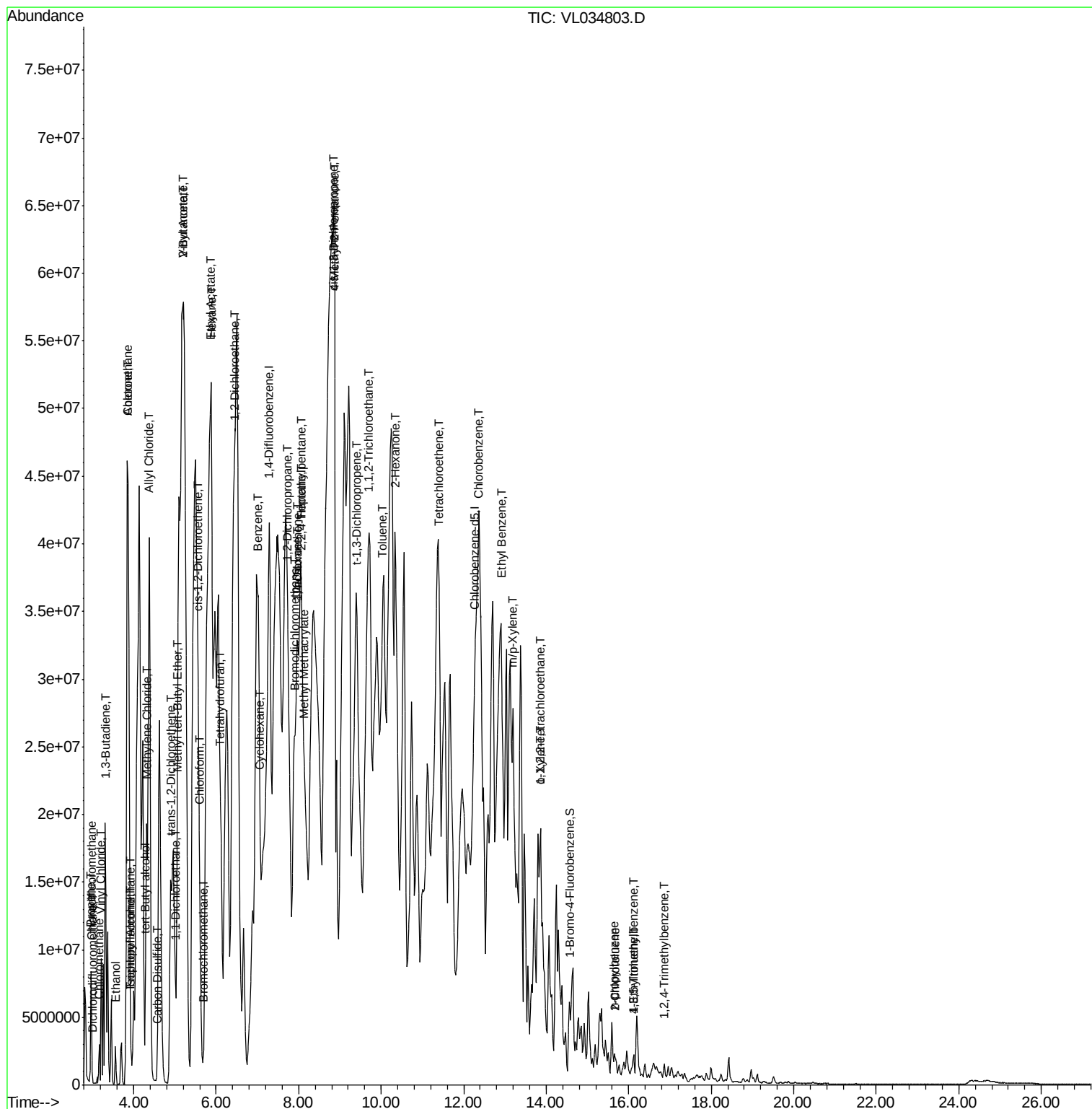
Quant Time: Mar 06 03:46:01 2020

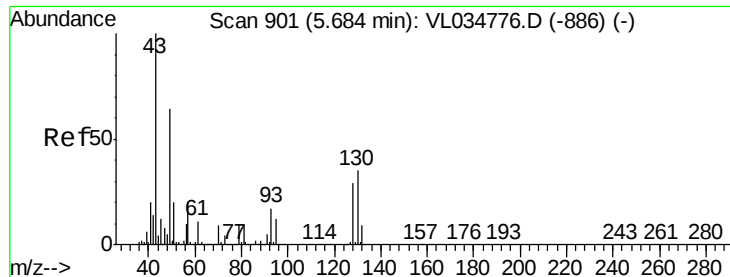
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL030420AIR.M

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QLast Update : Wed Mar 04 06:36:39 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

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Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

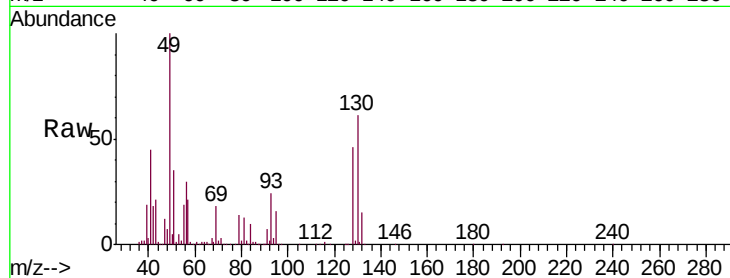
Tgt Ion: 49 Resp: 826316

Ion Ratio Lower Upper

49 100

128 48.1 21.6 64.6

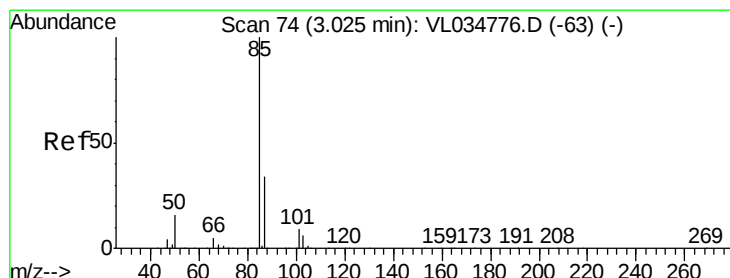
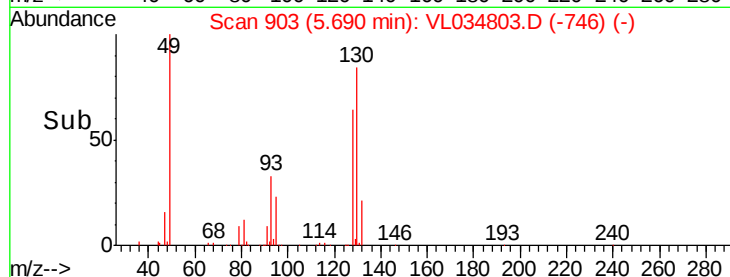
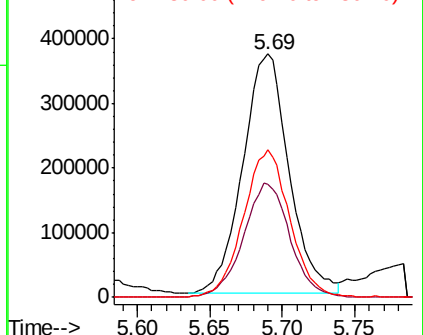
130 62.0 27.4 82.2



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



#2

Dichlorodifluoromethane

Concen: 0.042 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.02 min

Lab File: VL034803.D

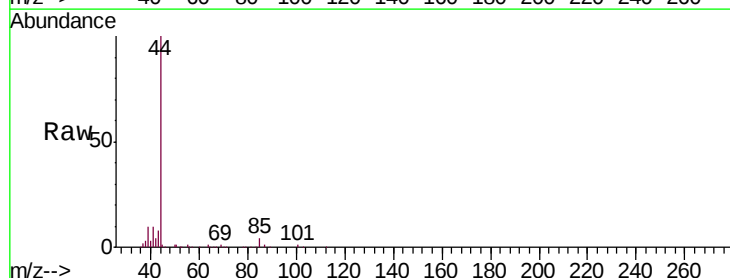
Acq: 5 Mar 2020 19:48

Tgt Ion: 85 Resp: 5684

Ion Ratio Lower Upper

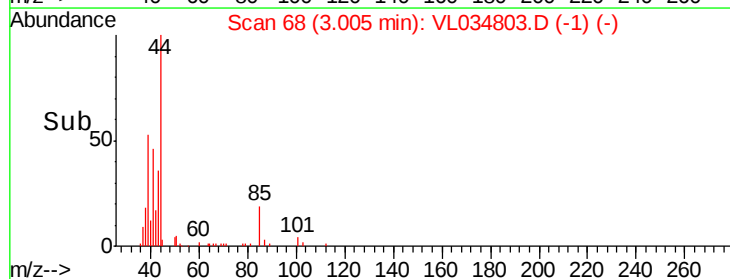
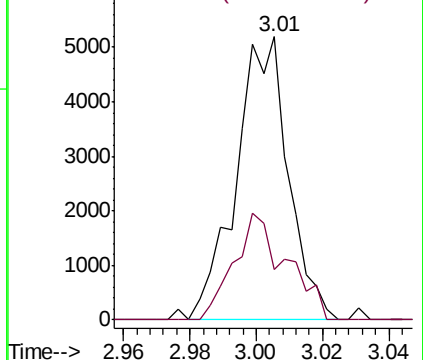
85 100

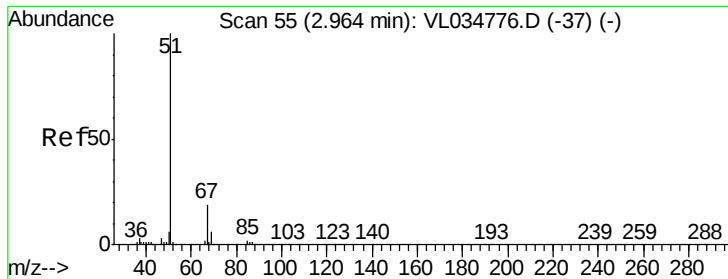
87 17.9 27.2 40.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.656 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.02 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

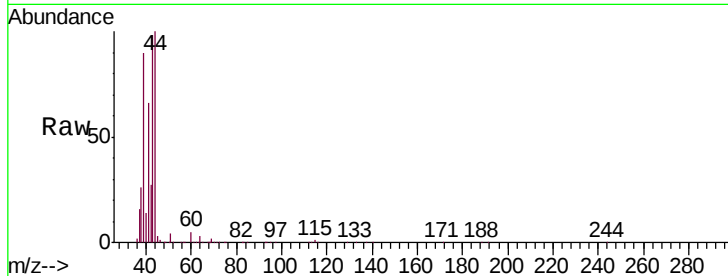
SS-4-4

Tgt Ion: 51 Resp: 61721

Ion Ratio Lower Upper

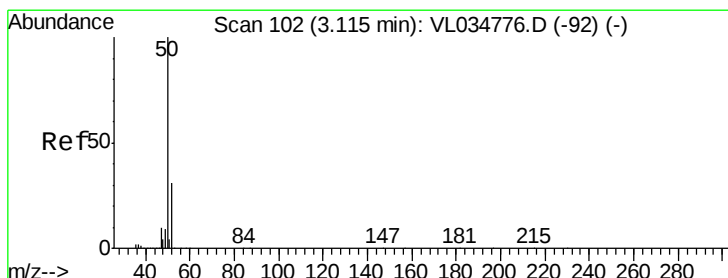
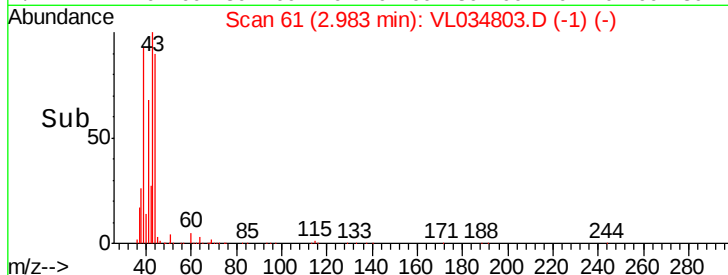
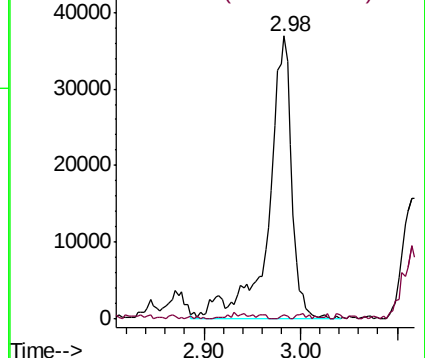
51 100

67 1.4 15.3 22.9#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.431 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.04 min

Lab File: VL034803.D

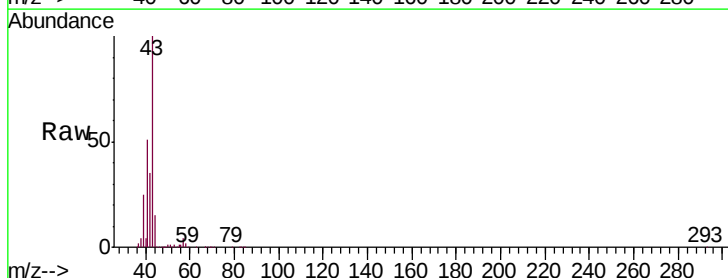
Acq: 5 Mar 2020 19:48

Tgt Ion: 50 Resp: 21845

Ion Ratio Lower Upper

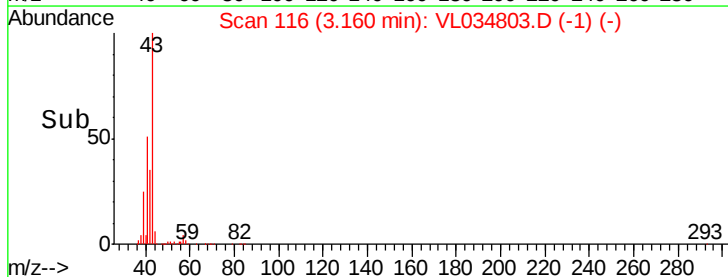
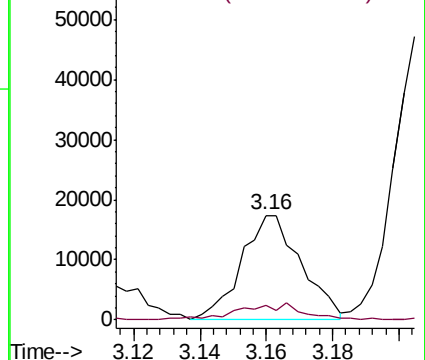
50 100

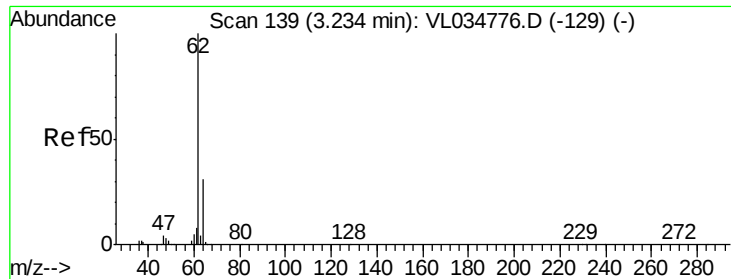
52 12.6 25.0 37.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 137.815 ppbv

RT: 3.21 min Scan# 132

Delta R.T. -0.02 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

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ClientSampleId :

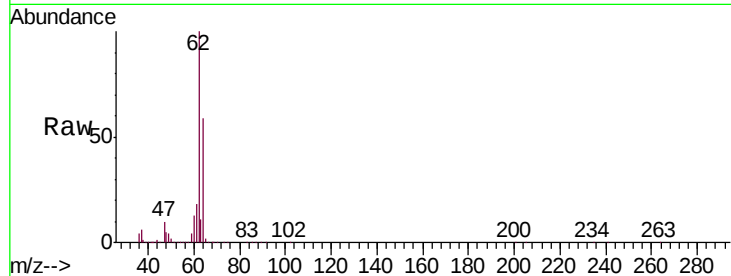
SS-4-4

Tgt Ion: 62 Resp: 7382384

Ion Ratio Lower Upper

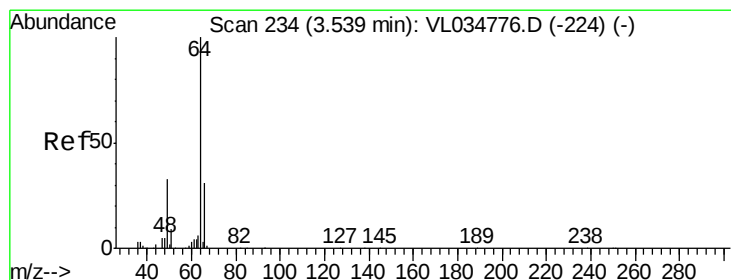
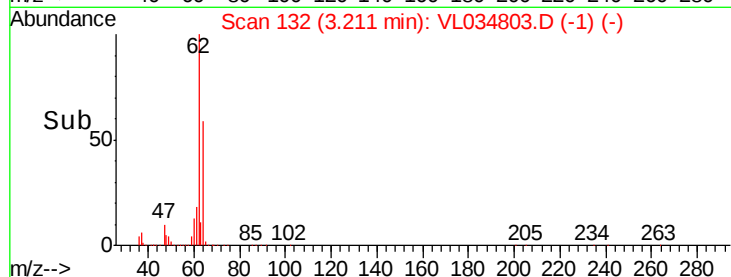
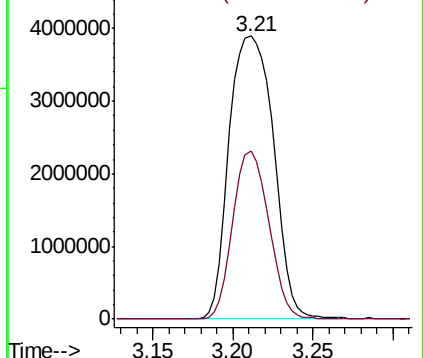
62 100

64 59.3 25.1 37.7#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 1.994 ppbv

RT: 3.85 min Scan# 331

Delta R.T. 0.31 min

Lab File: VL034803.D

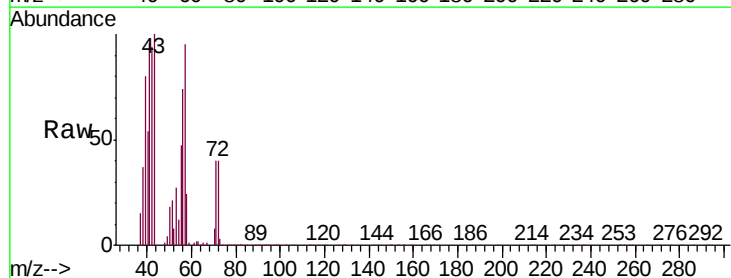
Acq: 5 Mar 2020 19:48

Tgt Ion: 64 Resp: 36933

Ion Ratio Lower Upper

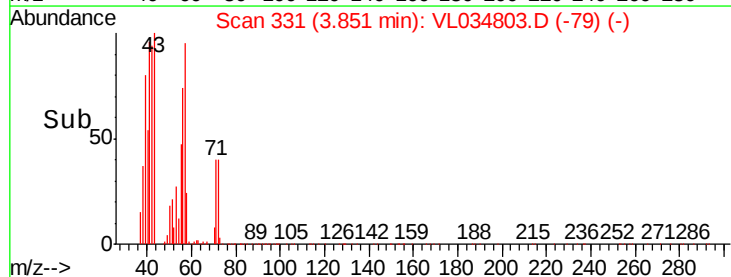
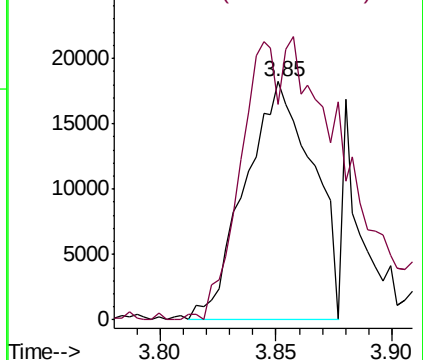
64 100

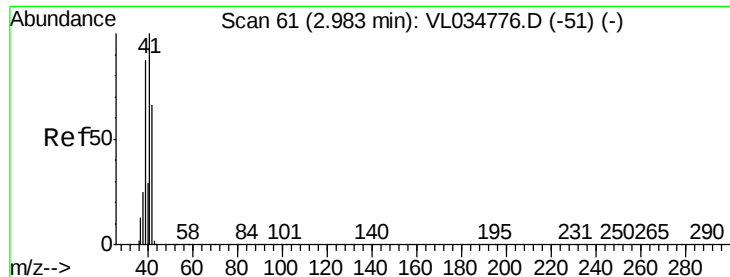
66 90.3 24.8 37.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 96.893 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.02 min

Lab File: VL034803.D

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Instrument :

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ClientSampleId :

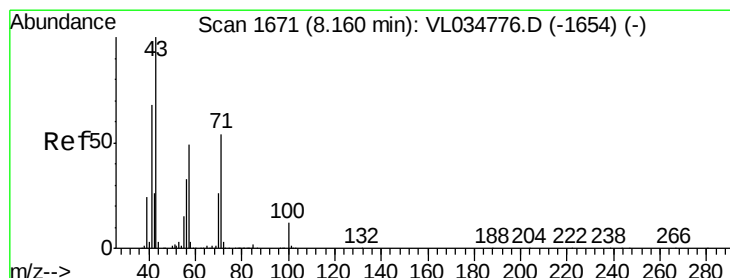
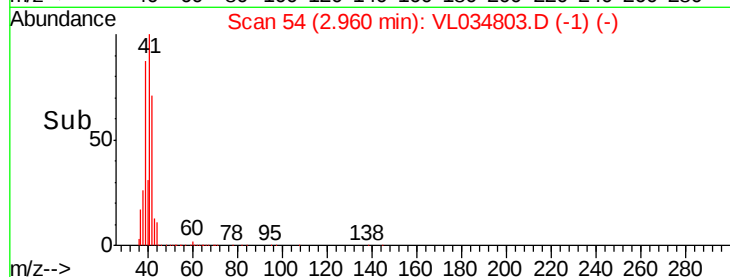
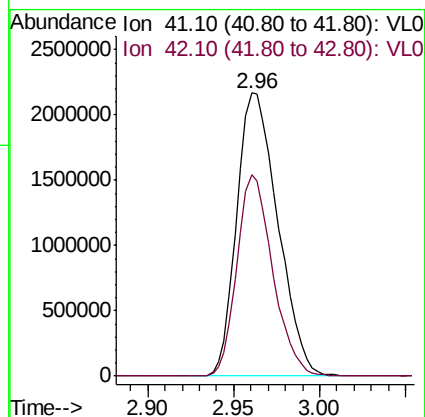
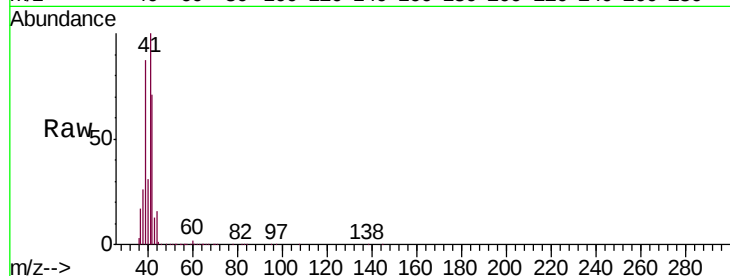
SS-4-4

Tgt Ion: 41 Resp: 3590364

Ion Ratio Lower Upper

41 100

42 62.5 55.6 83.4



#10

Heptane

Concen: 114.288 ppbv

RT: 8.06 min Scan# 1641

Delta R.T. -0.10 min

Lab File: VL034803.D

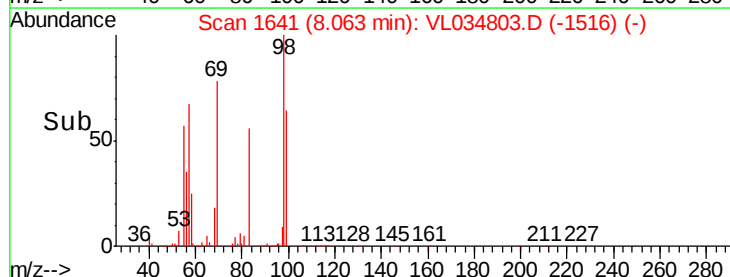
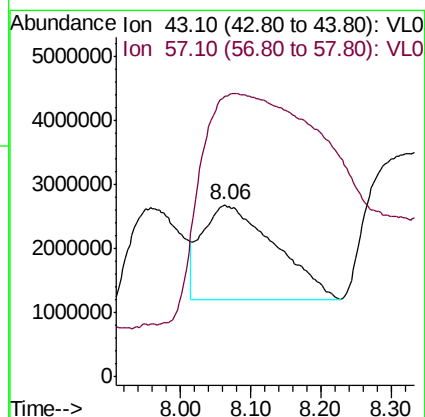
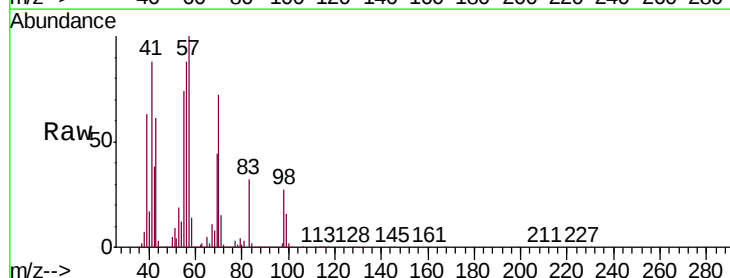
Acq: 5 Mar 2020 19:48

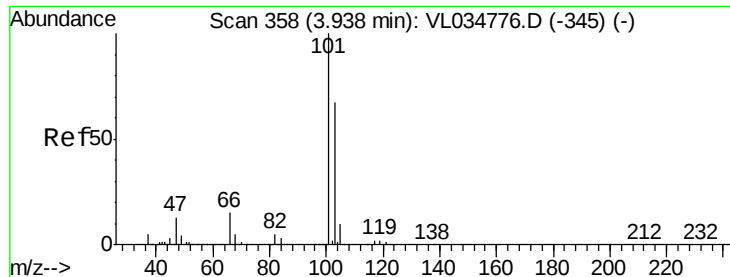
Tgt Ion: 43 Resp: 10762809

Ion Ratio Lower Upper

43 100

57 521.3 40.5 60.7#

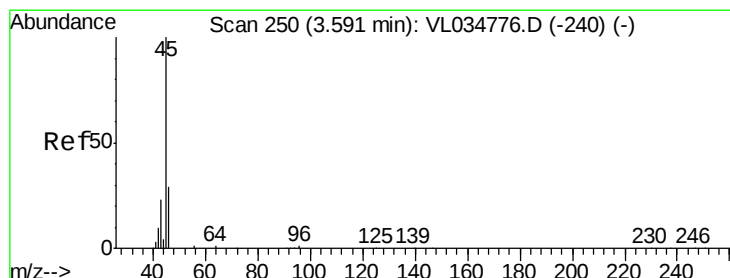
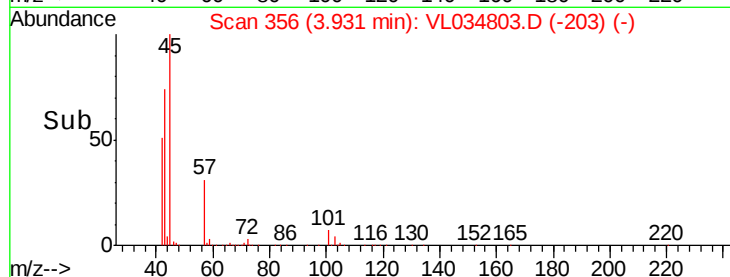
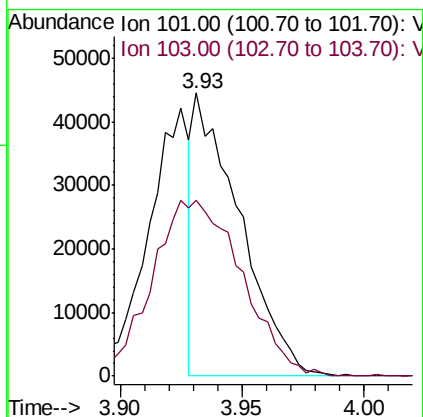
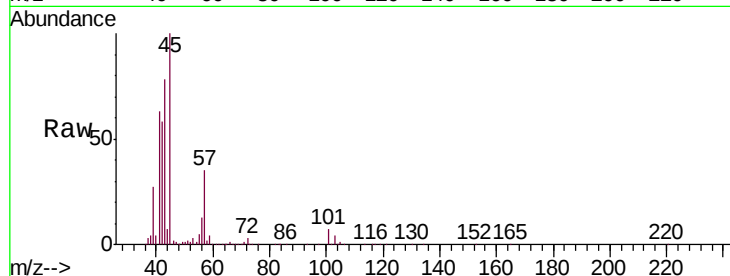




#11
 Trichlorofluoromethane
 Concen: 0.482 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. -0.01 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

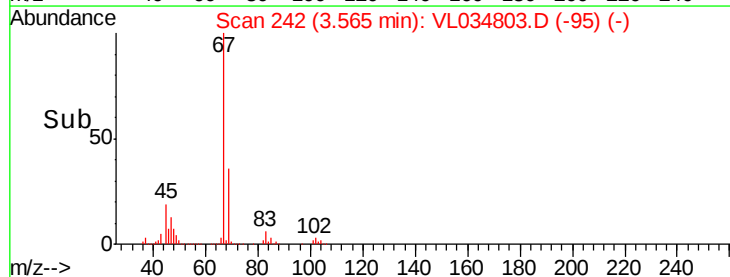
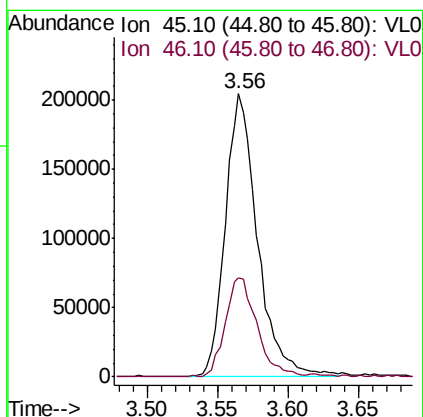
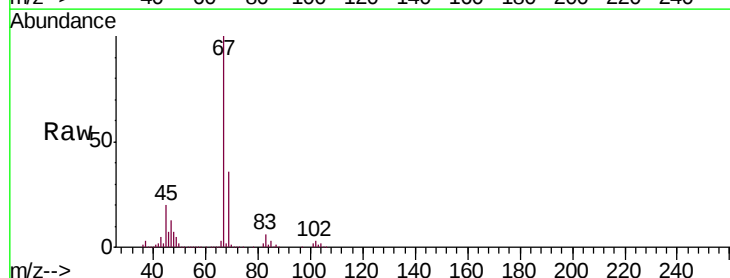
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4

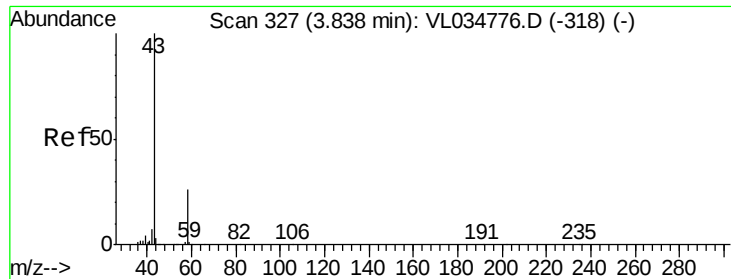
Tgt Ion: 101 Resp: 58159
 Ion Ratio Lower Upper
 101 100
 103 62.3 53.6 80.4



#13
 Ethanol
 Concen: 25.685 ppbv
 RT: 3.56 min Scan# 242
 Delta R.T. -0.03 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

Tgt Ion: 45 Resp: 326105
 Ion Ratio Lower Upper
 45 100
 46 35.6 14.7 58.9

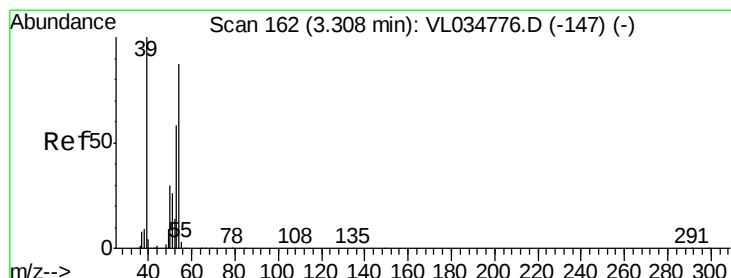
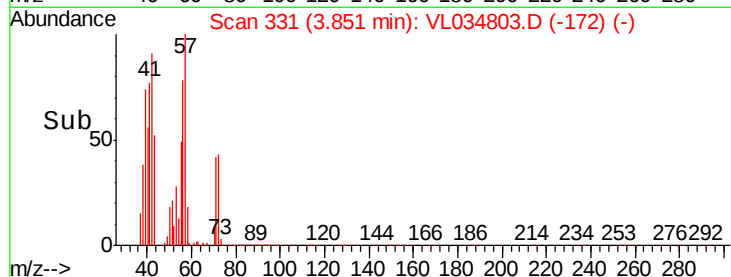
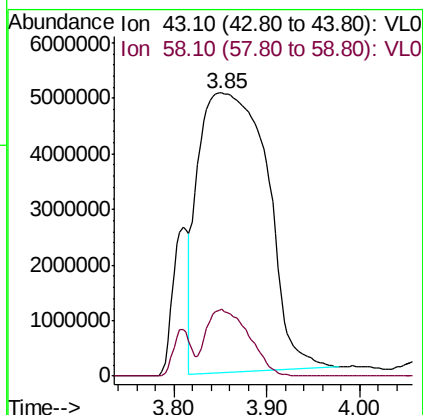
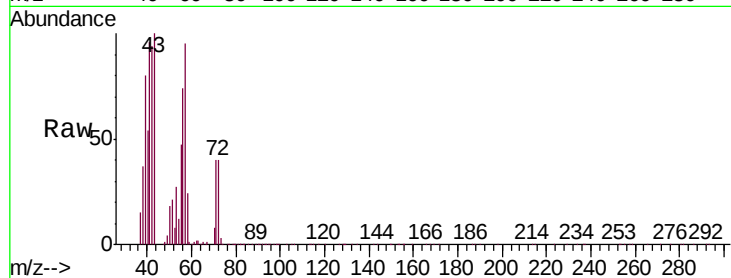




#15
Acetone
Concen: 260.915 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

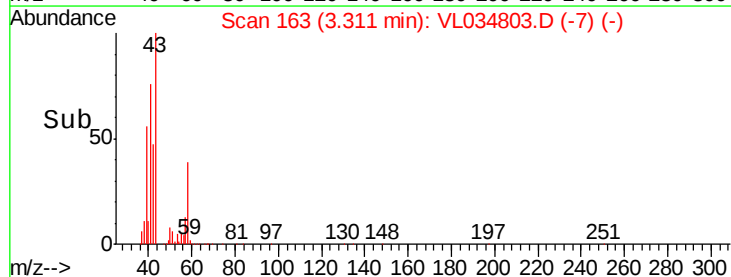
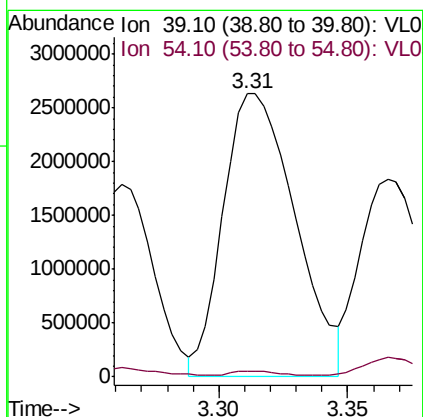
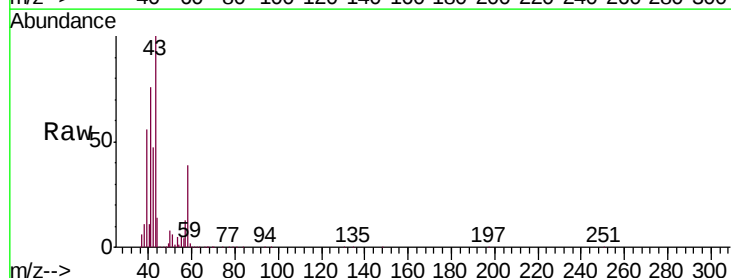
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

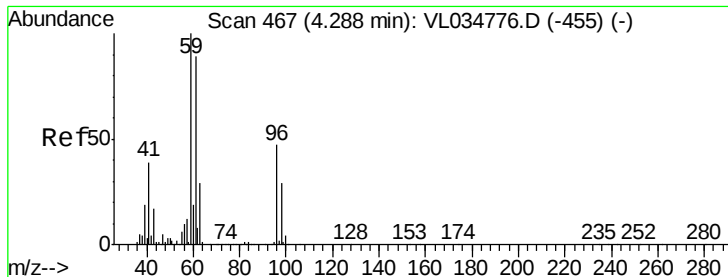
Tgt Ion: 43 Resp:25817710
Ion Ratio Lower Upper
43 100
58 14.9 21.0 31.6#



#16
1,3-Butadiene
Concen: 113.838 ppbv
RT: 3.31 min Scan# 163
Delta R.T. 0.00 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 39 Resp: 5096530
Ion Ratio Lower Upper
39 100
54 1.8 64.2 96.2#



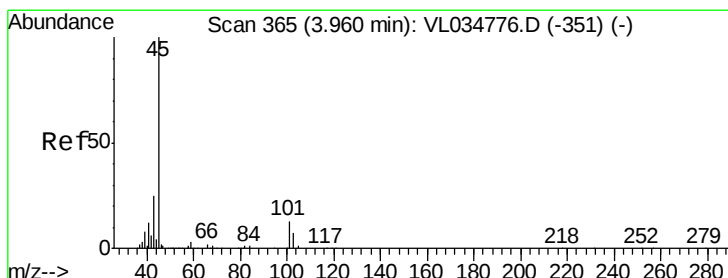
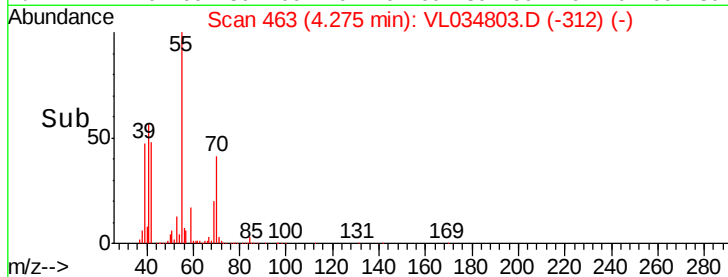
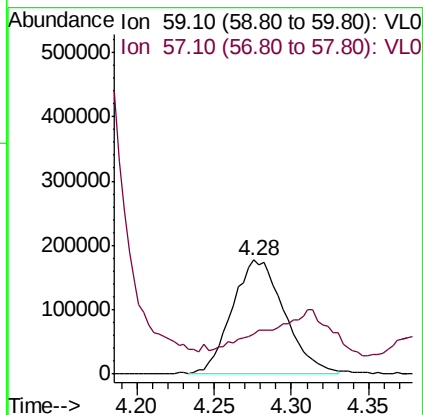
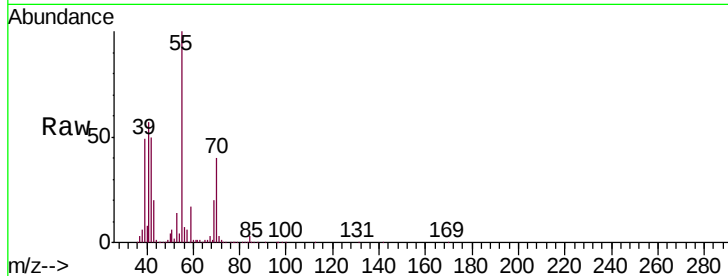


#17

tert-Butyl alcohol
Concen: 5.333 ppbv
RT: 4.28 min Scan# 463
Delta R.T. -0.01 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampled :
SS-4-4

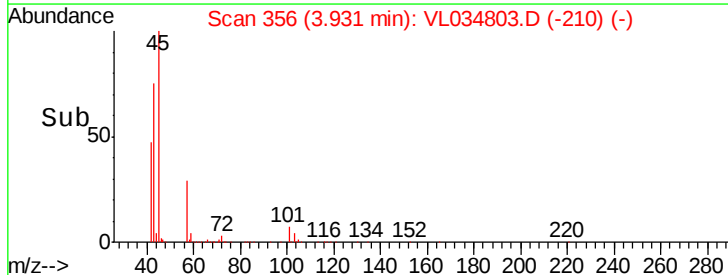
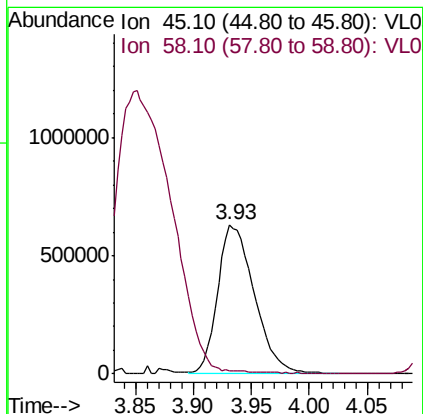
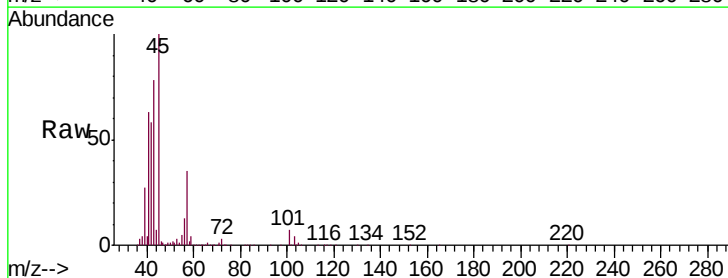
Tgt Ion: 59 Resp: 416133
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

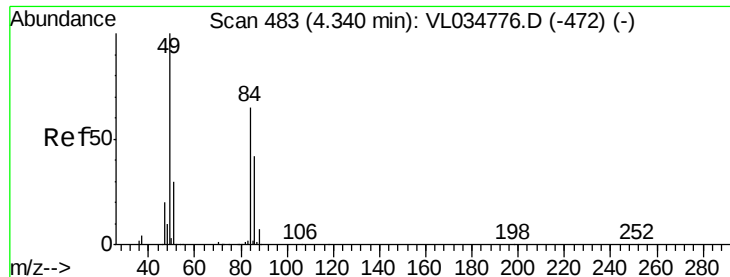


#19

Isopropyl Alcohol
Concen: 23.255 ppbv
RT: 3.93 min Scan# 356
Delta R.T. -0.03 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 45 Resp: 1378726
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.8#

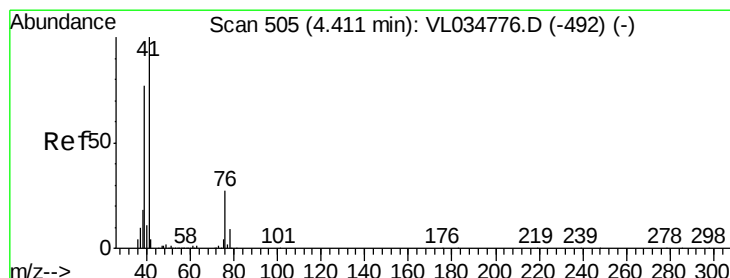
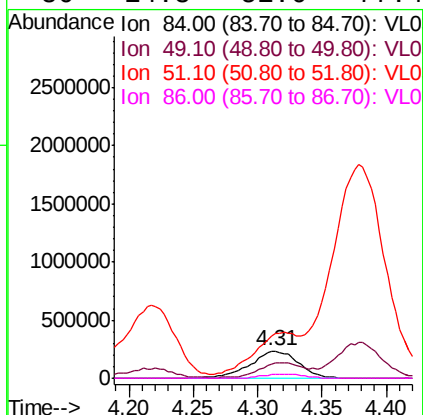
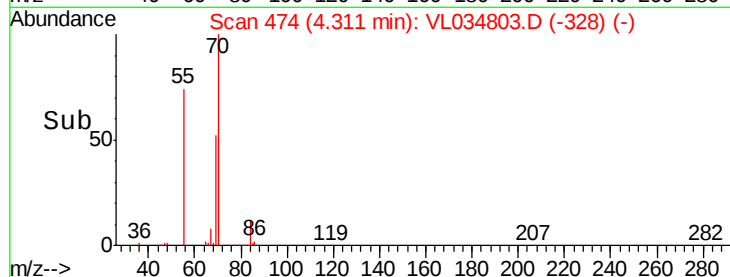
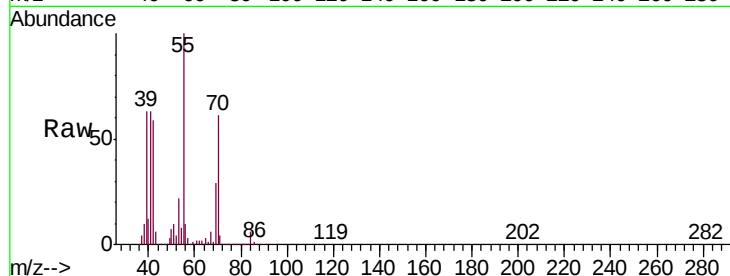




#20
Methylene Chloride
Concen: 16.894 ppbv
RT: 4.31 min Scan# 474
Delta R.T. -0.03 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

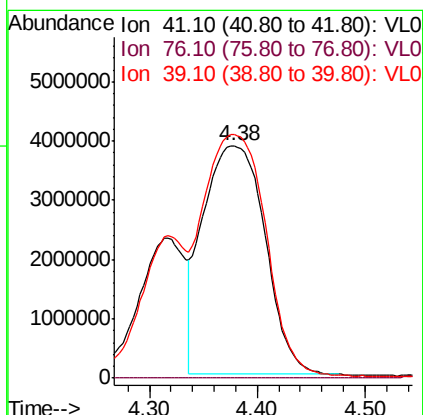
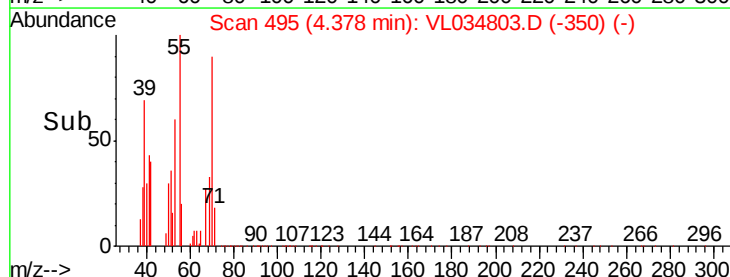
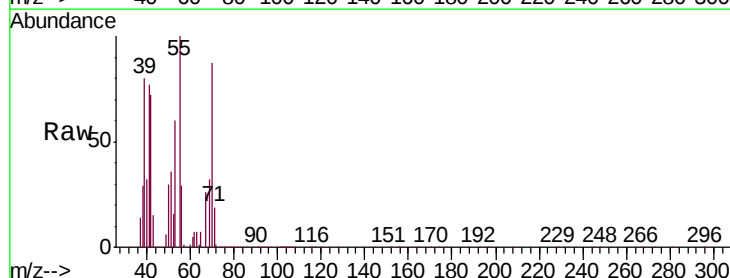
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

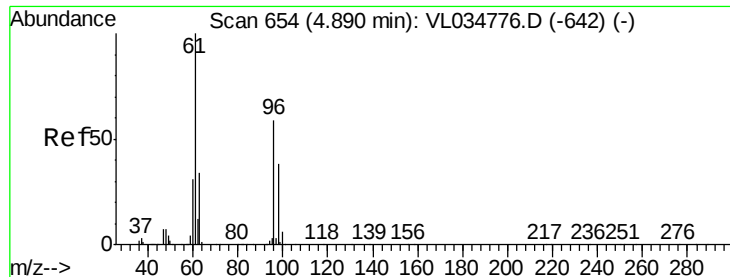
Tgt Ion: 84 Resp: 596639
Ion Ratio Lower Upper
84 100
49 45.0 123.2 184.8#
51 93.6 37.4 56.2#
86 14.8 51.6 77.4#



#21
Allyl Chloride
Concen: 246.080 ppbv
RT: 4.38 min Scan# 495
Delta R.T. -0.03 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 41 Resp:15420052
Ion Ratio Lower Upper
41 100
76 0.0 22.5 33.7#
39 152.4 65.0 97.6#





#22

trans-1,2-Dichloroethene

Concen: 2.316 ppbv

RT: 4.90 min Scan# 658

Delta R.T. 0.01 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

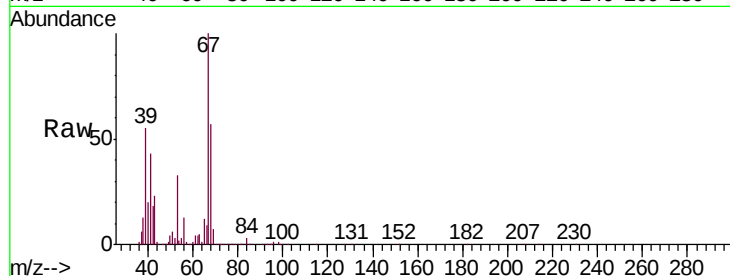
Tgt Ion: 96 Resp: 83009

Ion Ratio Lower Upper

96 100

61 345.6 135.2 202.8#

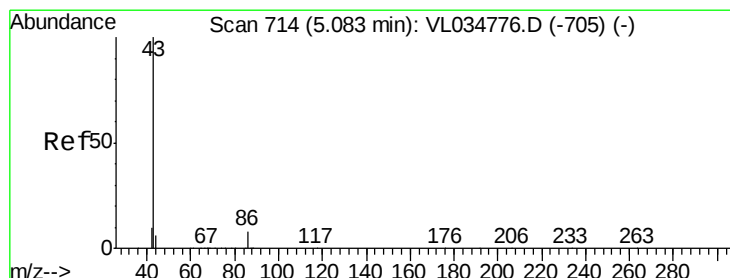
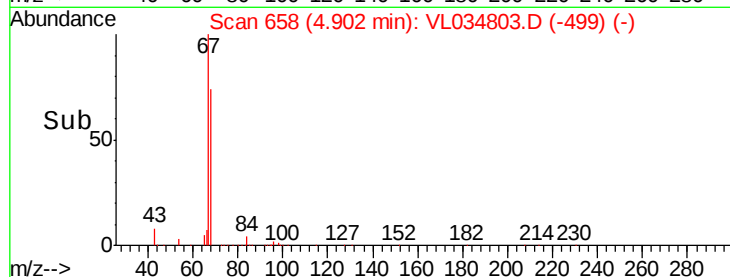
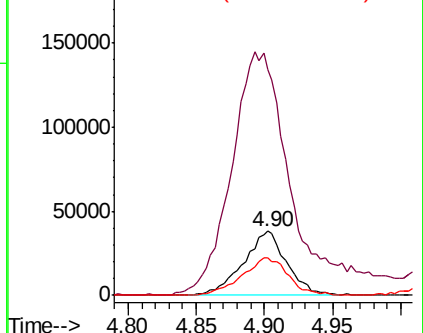
98 58.7 50.8 76.2



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 333.629 ppbv

RT: 5.21 min Scan# 753

Delta R.T. 0.13 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Tgt Ion: 43 Resp: 44268307

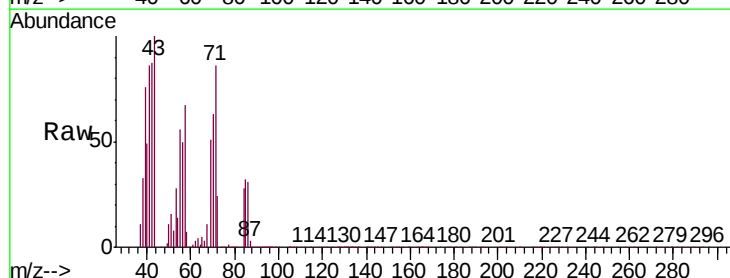
Ion Ratio Lower Upper

43 100

86 33.7 5.9 8.9#

42 82.5 8.2 12.2#

44 0.0 4.5 6.7#

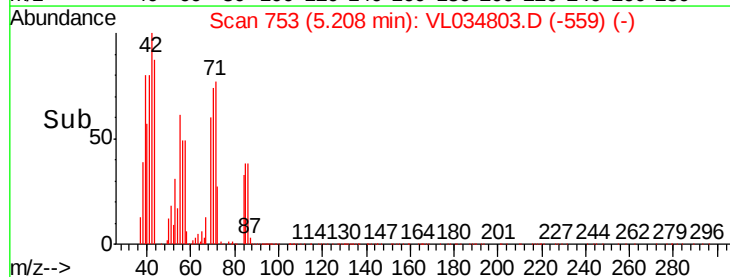
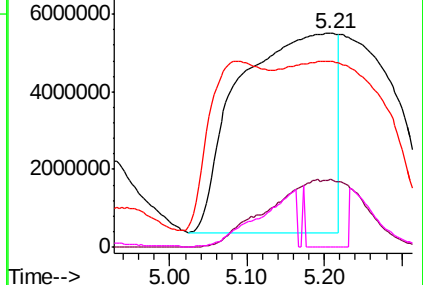


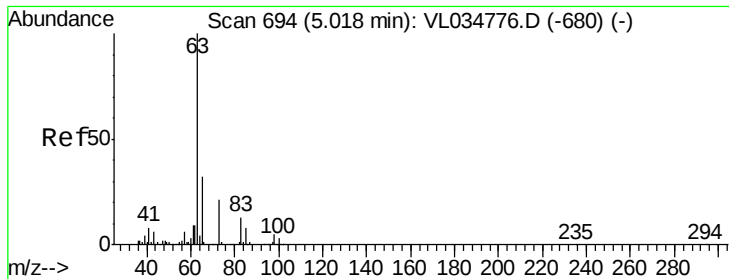
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.278 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

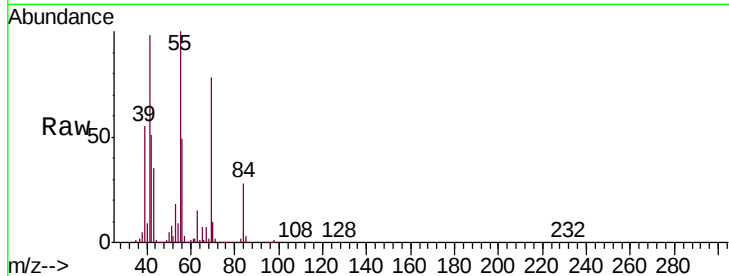
Tgt Ion: 63 Resp: 234577

Ion Ratio Lower Upper

63 100

98 4.8 2.3 6.8

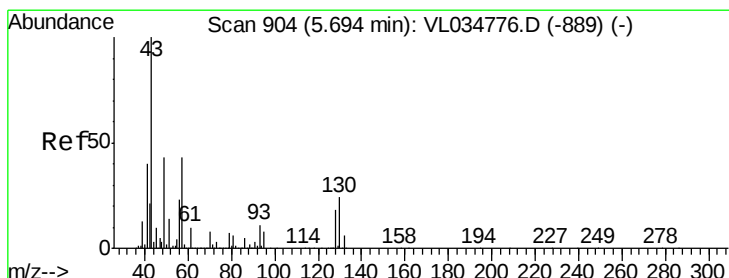
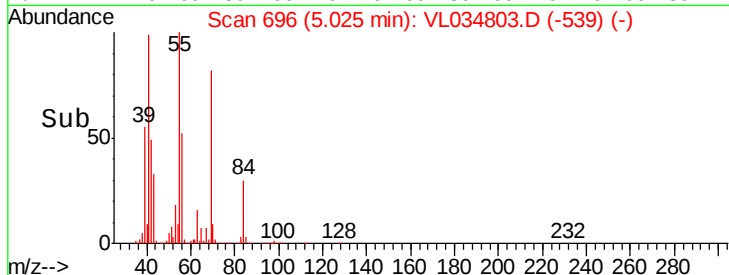
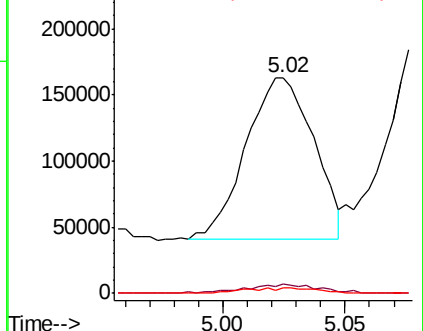
100 3.4 1.5 4.4



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: 287.905 ppbv

RT: 5.87 min Scan# 959

Delta R.T. 0.18 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Tgt Ion: 43 Resp: 49229789

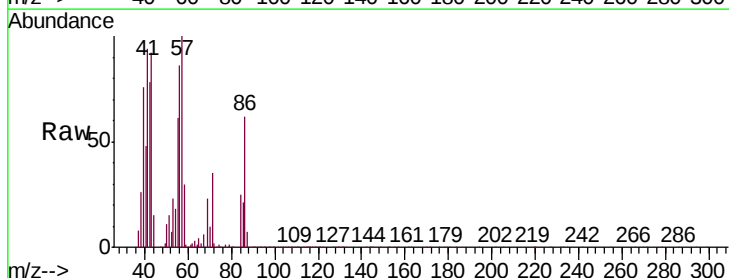
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.4#

61 0.0 7.5 11.3#

70 0.0 6.0 9.0#

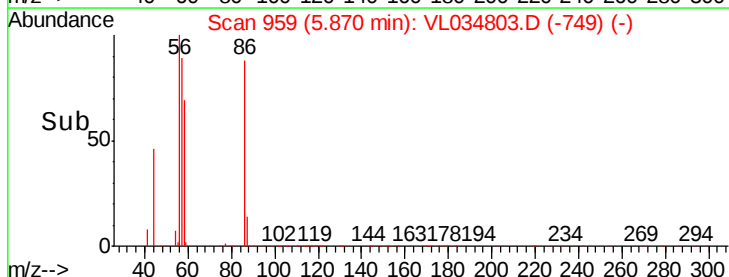
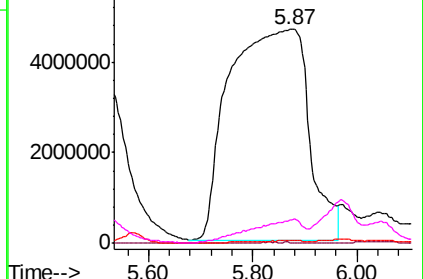


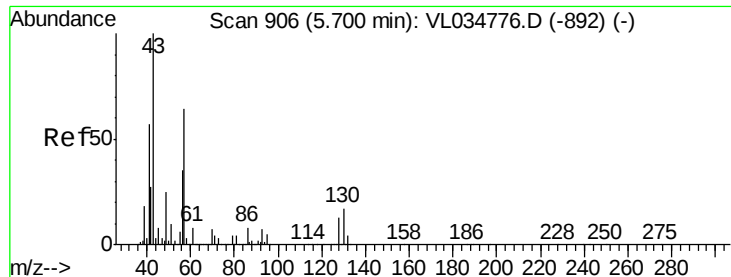
Abundance Ion 43.10 (42.80 to 43.80): VL0

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



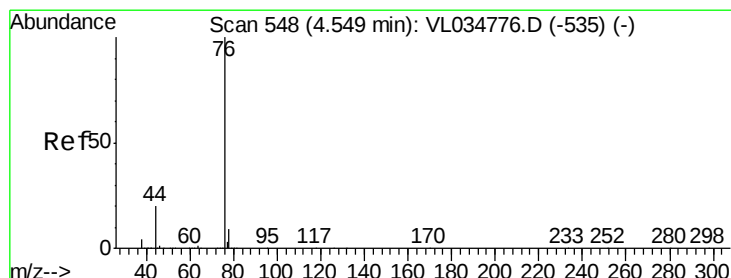
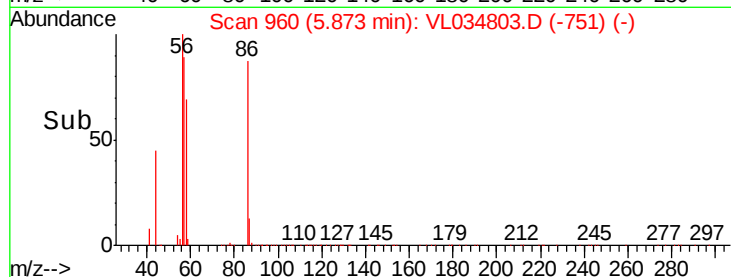
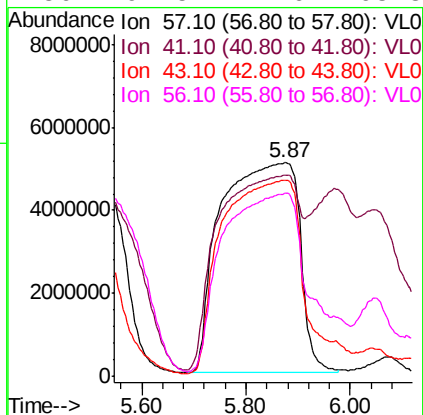
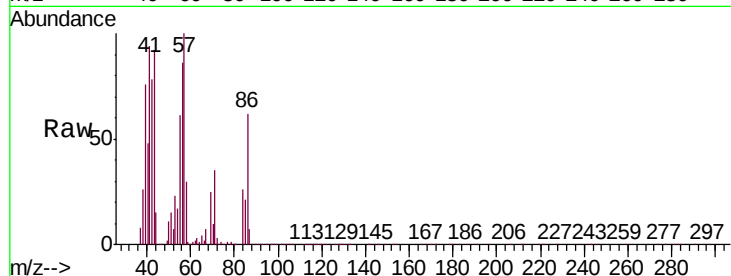


#26
Hexane
Concen: 704.680 ppbv
RT: 5.87 min Scan# 960
Delta R.T. 0.17 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

Tgt Ion: 57 Resp: 52639926

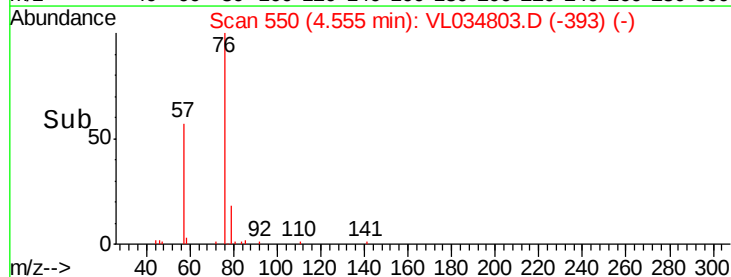
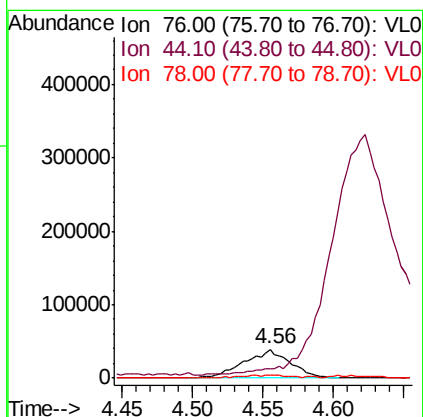
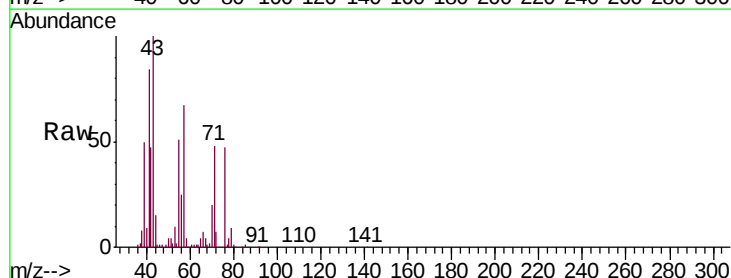
Ion	Ratio	Lower	Upper
57	100		
41	97.0	72.0	108.0
43	96.6	179.1	268.7#
56	94.5	42.6	63.8#

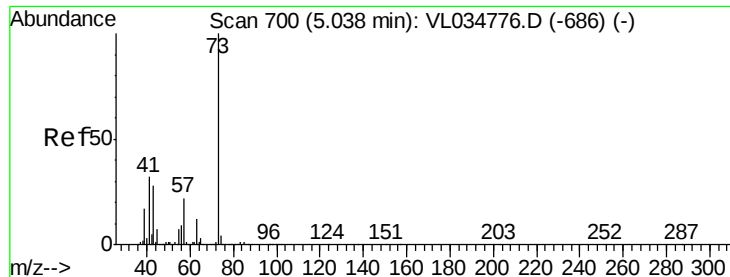


#27
Carbon Disulfide
Concen: 1.022 ppbv
RT: 4.56 min Scan# 550
Delta R.T. 0.01 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 76 Resp: 89165

Ion	Ratio	Lower	Upper
76	100		
44	0.0	16.1	24.1#
78	12.8	7.5	11.3#





#28

Methyl tert-Butyl Ether

Concen: 0.058 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.01 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

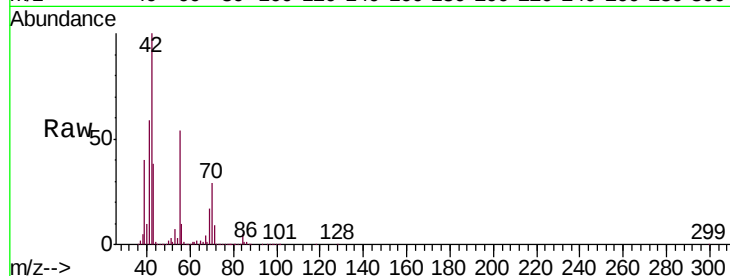
SS-4-4

Tgt Ion: 73 Resp: 6424

Ion Ratio Lower Upper

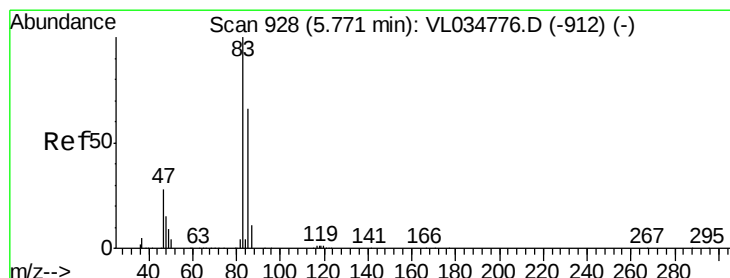
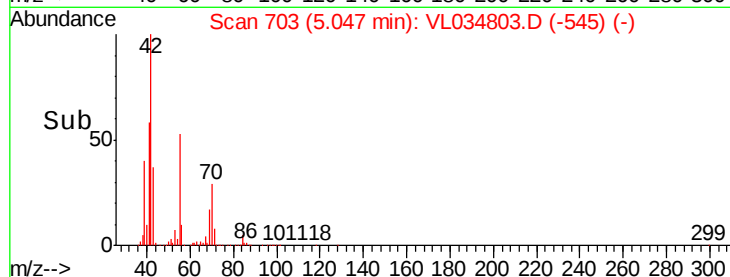
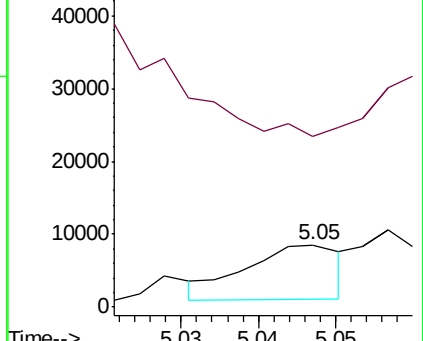
73 100

57 0.0 18.5 27.7#



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#29

Chloroform

Concen: 0.066 ppbv

RT: 5.60 min Scan# 876

Delta R.T. -0.17 min

Lab File: VL034803.D

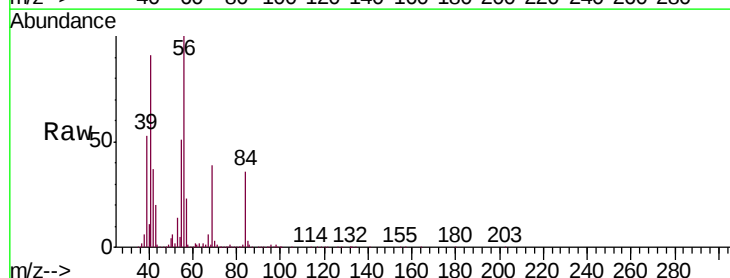
Acq: 5 Mar 2020 19:48

Tgt Ion: 83 Resp: 8245

Ion Ratio Lower Upper

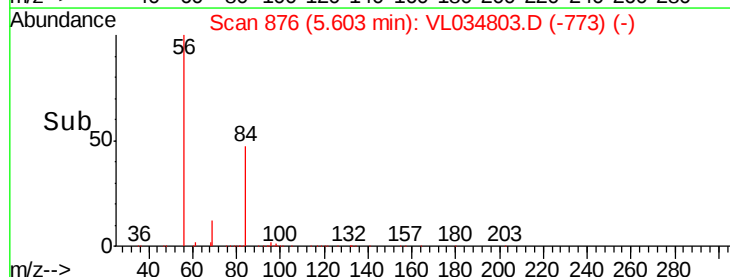
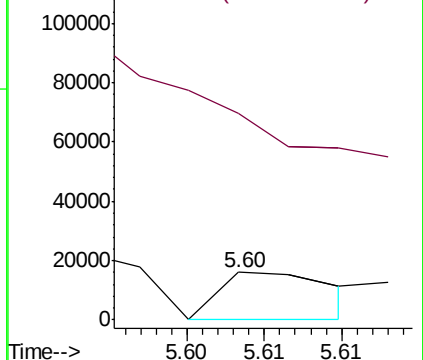
83 100

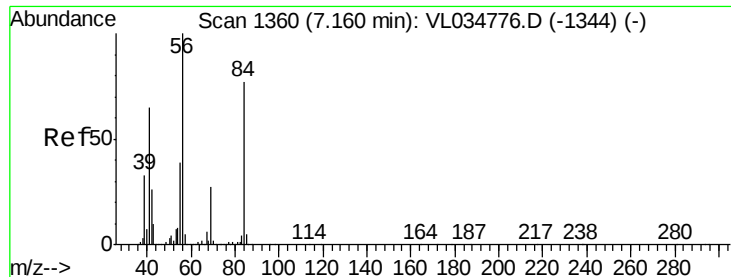
85 72.5 53.0 79.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

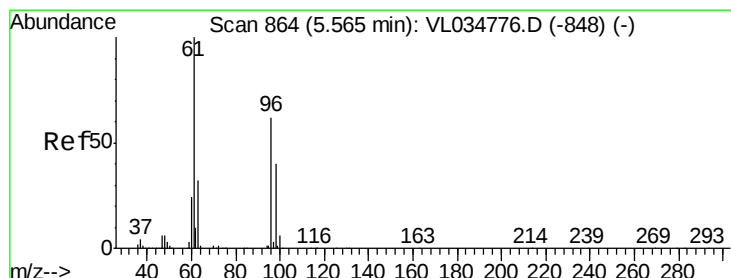
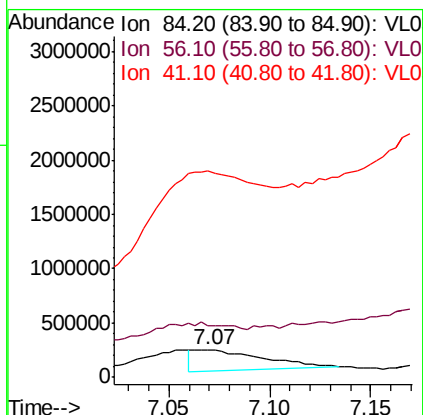
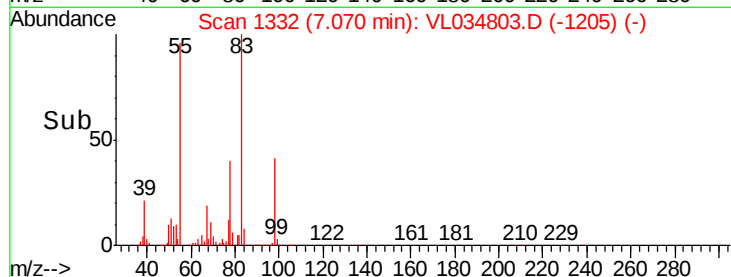
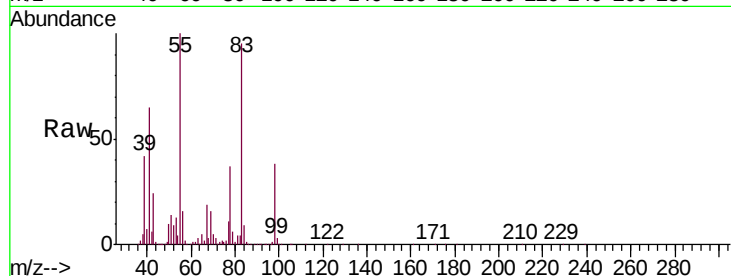




#30
Cyclohexane
Concen: 7.901 ppbv
RT: 7.07 min Scan# 1332
Delta R.T. -0.09 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

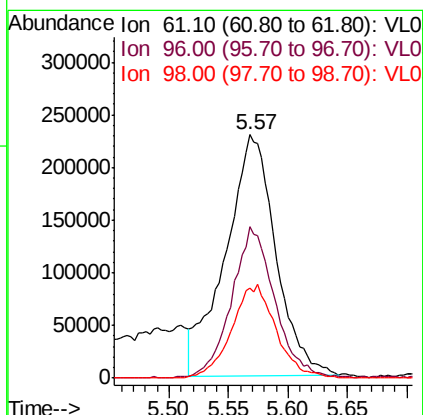
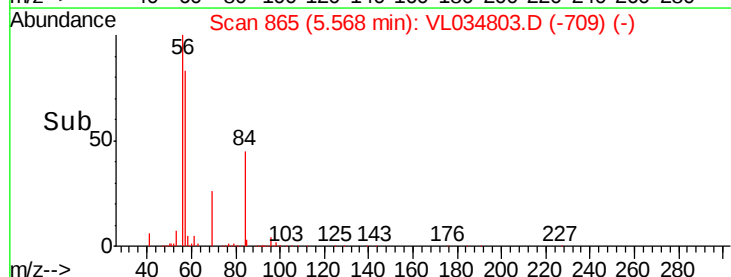
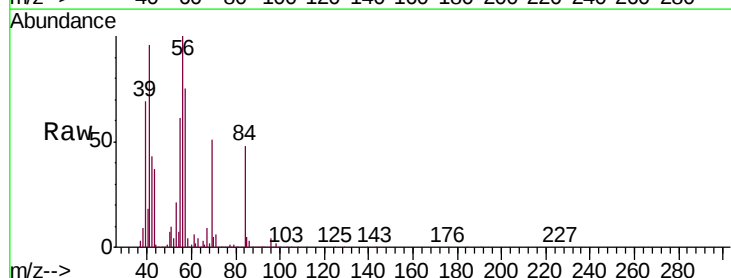
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

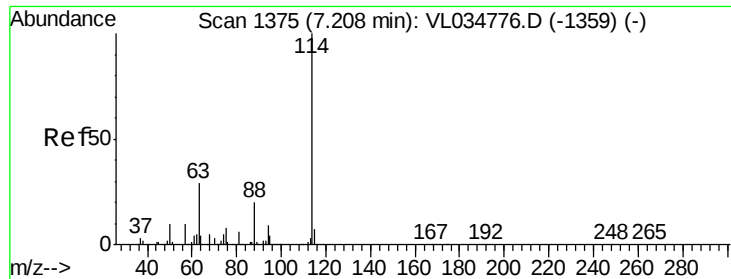
Tgt Ion: 84 Resp: 451524
Ion Ratio Lower Upper
84 100
56 0.0 113.2 169.8#
41 766.4 70.2 105.4#



#31
cis-1,2-Dichloroethene
Concen: 8.766 ppbv
RT: 5.57 min Scan# 865
Delta R.T. 0.00 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 61 Resp: 671606
Ion Ratio Lower Upper
61 100
96 62.2 49.7 74.5
98 37.2 31.9 47.9

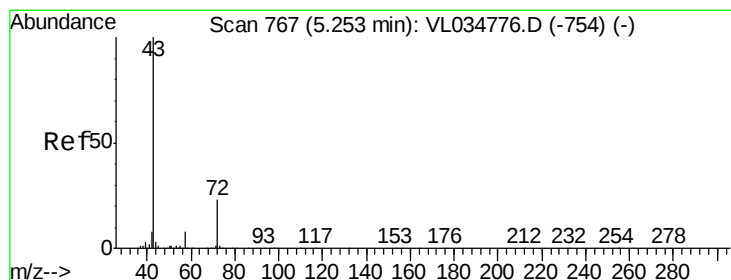
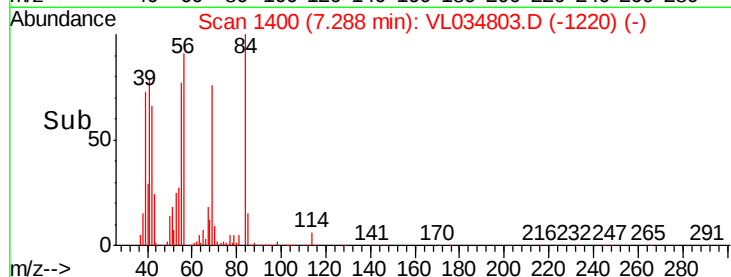
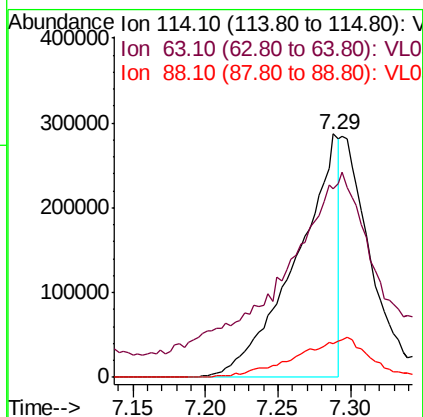
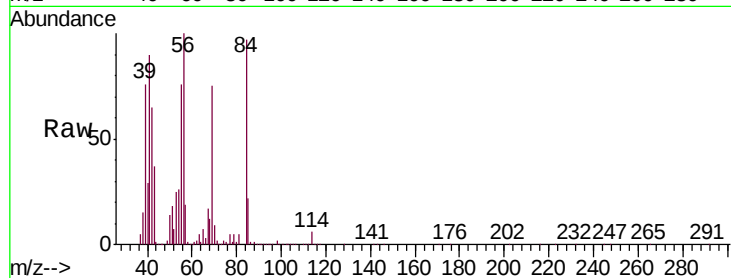




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1400
 Delta R.T. 0.08 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

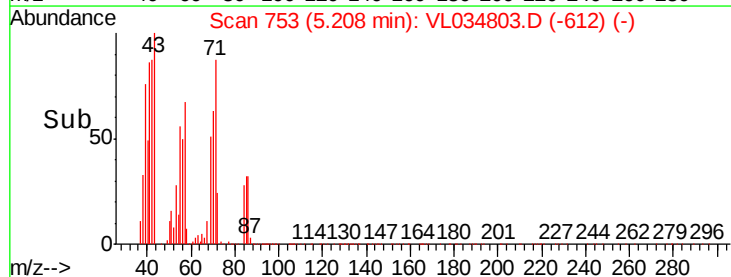
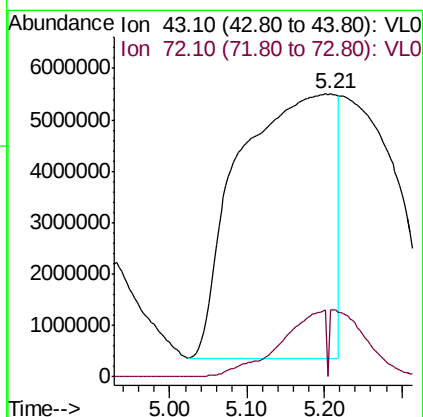
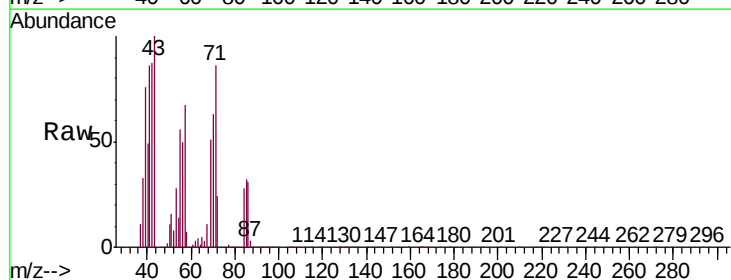
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4

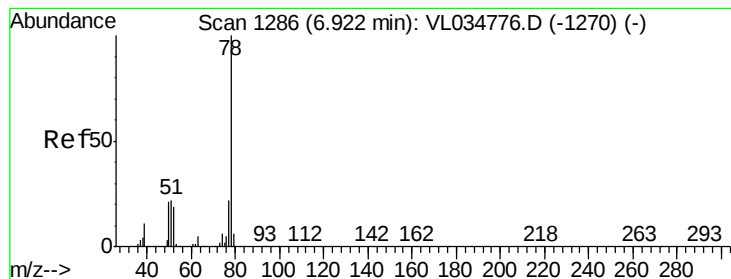
Tgt Ion:114 Resp: 578707
 Ion Ratio Lower Upper
 114 100
 63 0.0 23.6 35.4#
 88 0.0 15.8 23.8#



#34
 2-Butanone
 Concen: 1175.809 ppbv
 RT: 5.21 min Scan# 753
 Delta R.T. -0.05 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

Tgt Ion: 43 Resp:44268307
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.5 26.3





#36

Benzene

Concen: 710.323 ppbv

RT: 7.02 min Scan# 1316

Delta R.T. 0.10 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

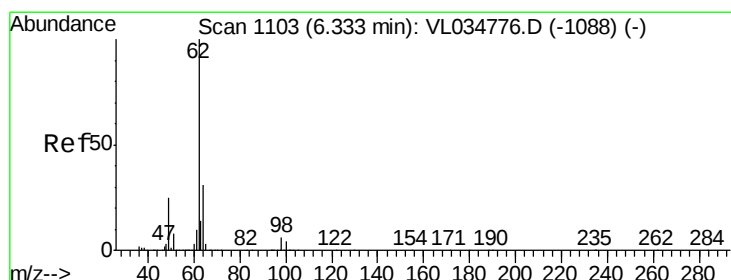
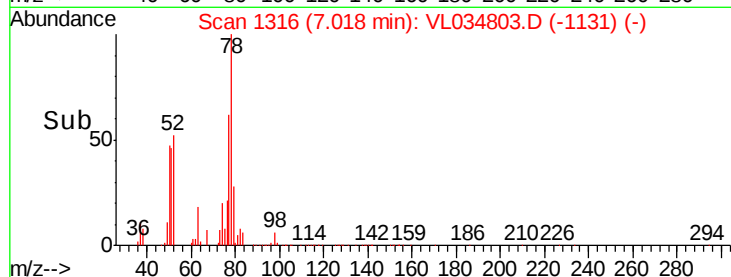
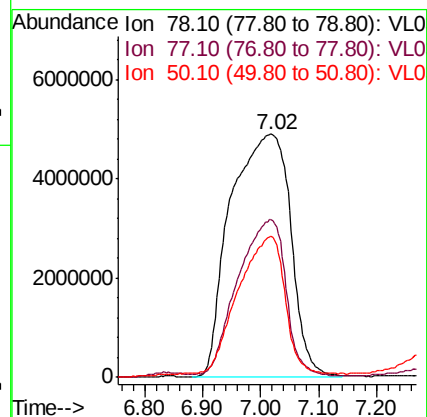
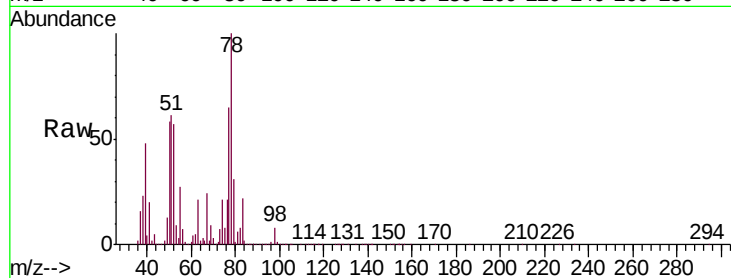
Tgt Ion: 78 Resp:35126154

Ion Ratio Lower Upper

78 100

77 64.3 18.0 27.0#

50 56.5 16.9 25.3#



#37

1,2-Dichloroethane

Concen: 6.775 ppbv

RT: 6.43 min Scan# 1133

Delta R.T. 0.10 min

Lab File: VL034803.D

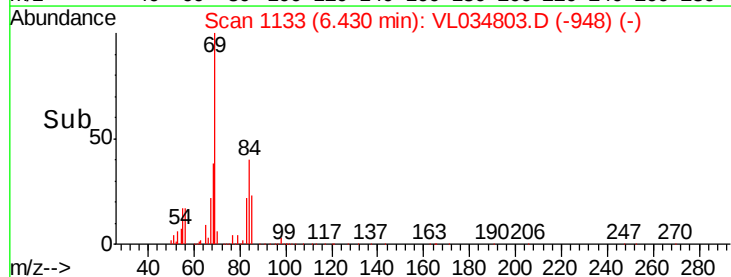
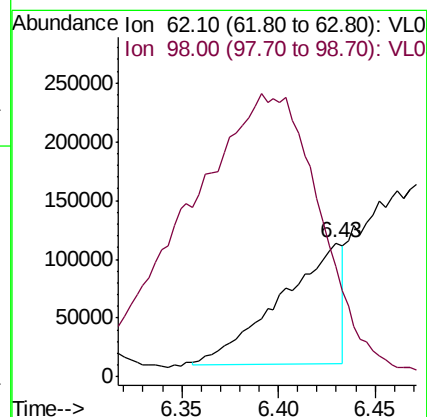
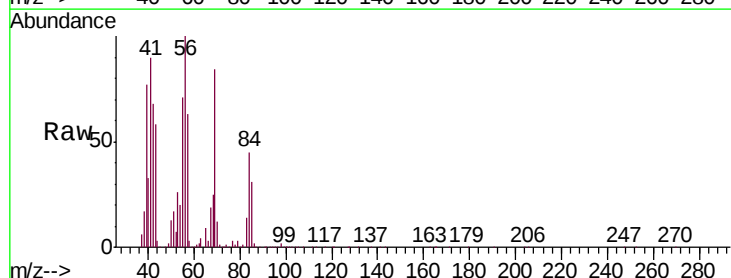
Acq: 5 Mar 2020 19:48

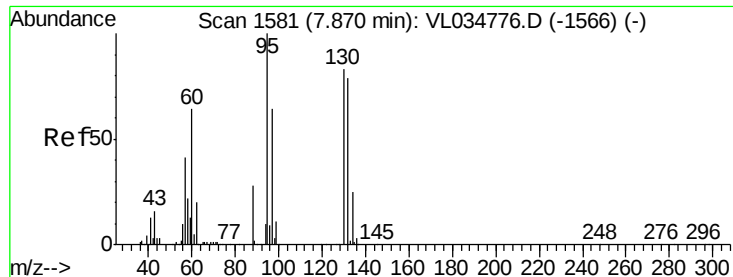
Tgt Ion: 62 Resp: 228852

Ion Ratio Lower Upper

62 100

98 525.8 4.4 6.6#





#38

Trichloroethene

Concen: 0.920 ppbv

RT: 7.97 min Scan# 1612

Delta R.T. 0.10 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

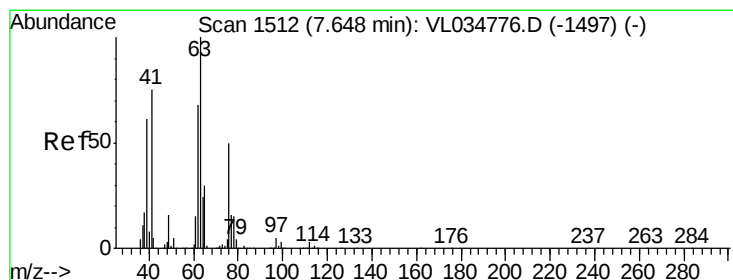
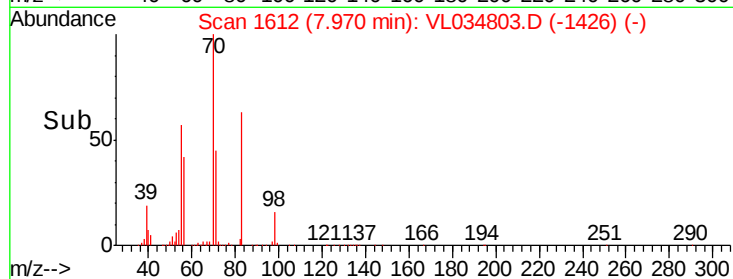
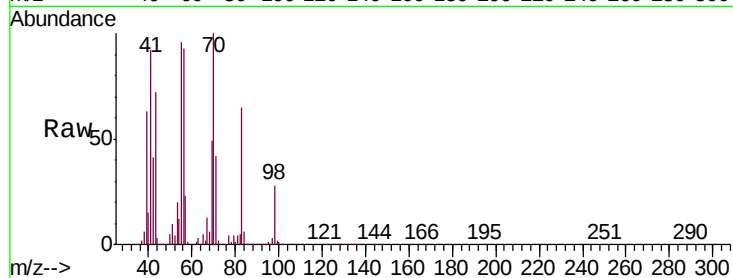
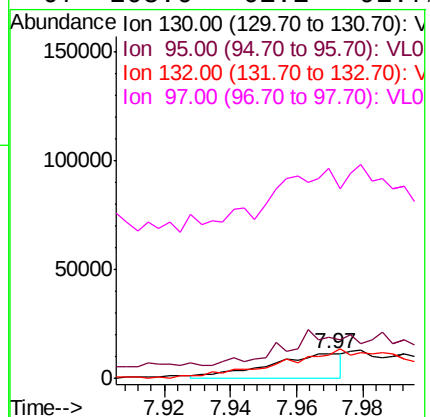
Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

Tgt Ion:	130	Resp:	17723
Ion	Ratio	Lower	Upper
130	100		
95	114.2	95.8	143.8
132	91.6	76.1	114.1
97	208.6	61.1	91.7#



#39

1,2-Dichloropropane

Concen: 0.376 ppbv

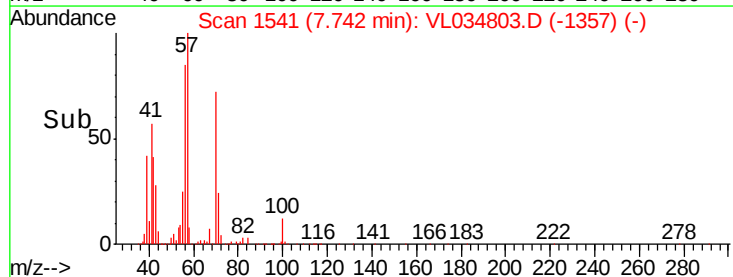
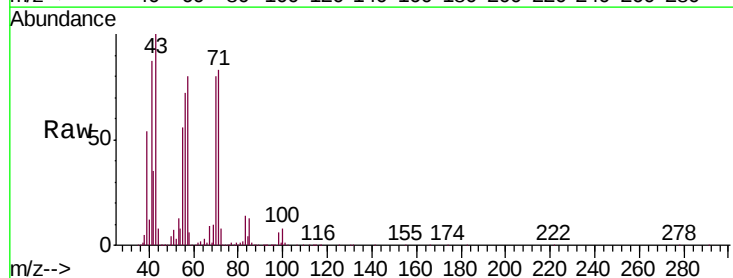
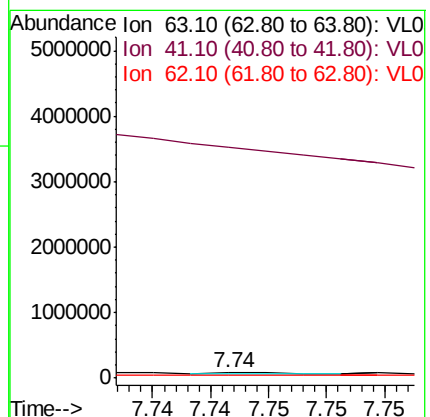
RT: 7.74 min Scan# 1541

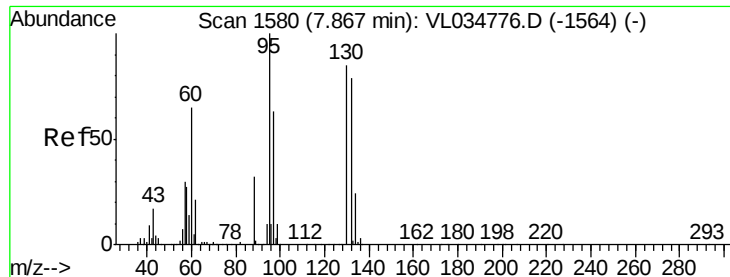
Delta R.T. 0.09 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Tgt Ion:	63	Resp:	7501
Ion	Ratio	Lower	Upper
63	100		
41	1916.7	60.3	90.5#
62	69.4	54.5	81.7

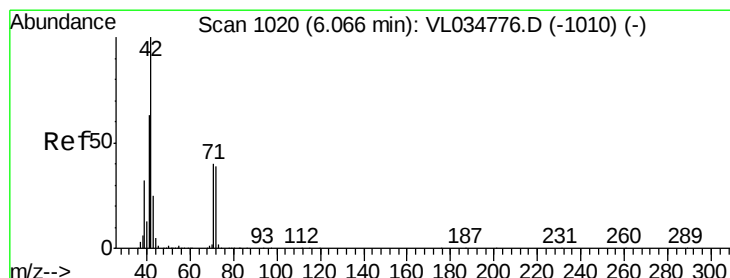
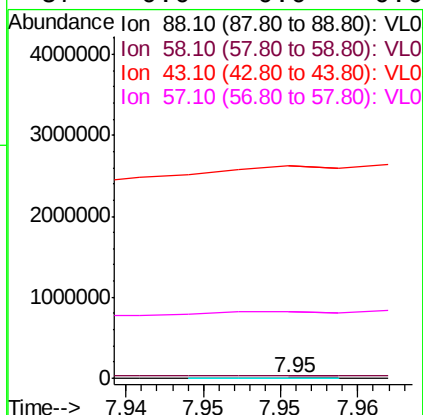
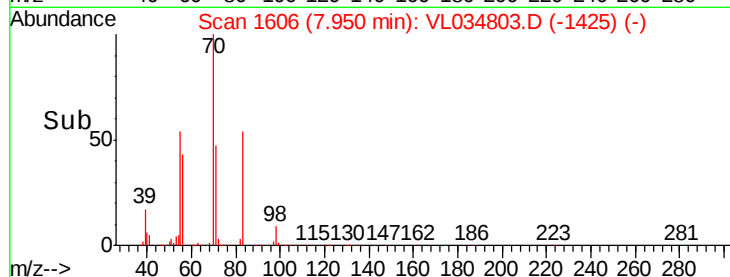
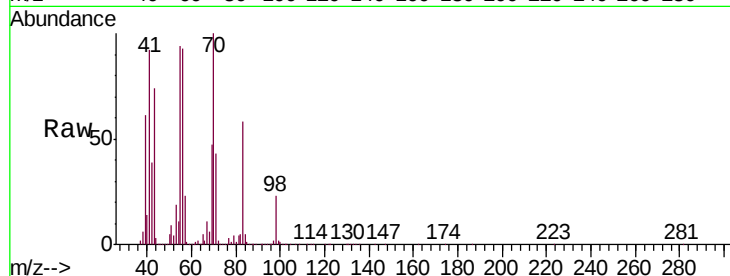




#40
1,4-Dioxane
Concen: 0.065 ppbv
RT: 7.95 min Scan# 1606
Delta R.T. 0.08 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

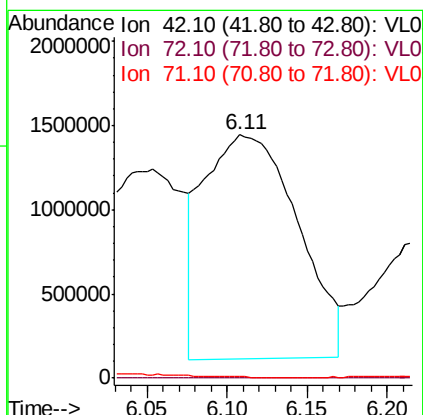
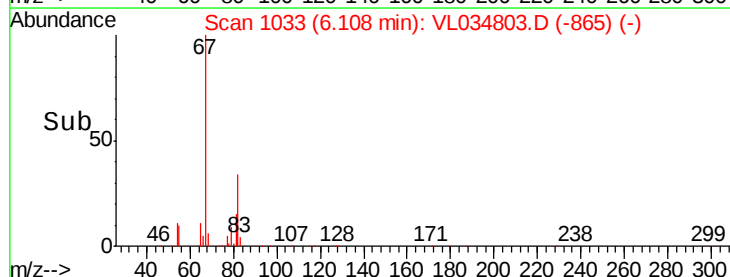
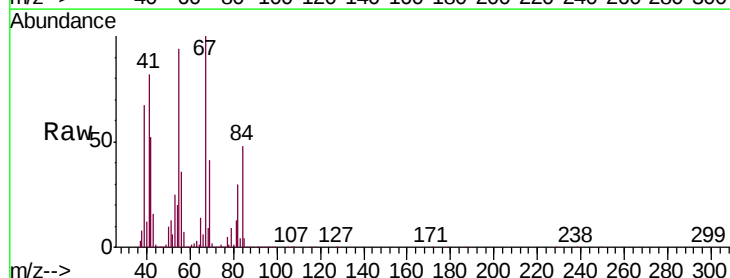
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

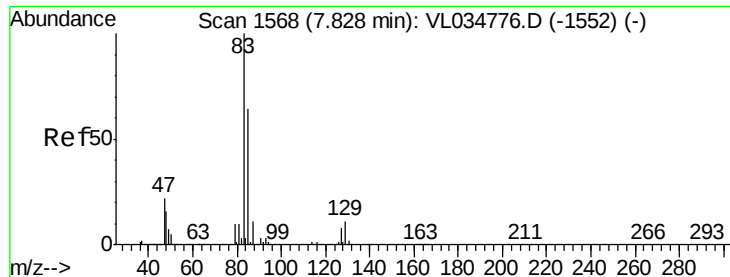
Tgt Ion: 88 Resp: 447
Ion Ratio Lower Upper
88 100
58 0.0 110.6 166.0#
43 0.0 0.0 0.0
57 0.0 0.0 0.0



#41
Tetrahydrofuran
Concen: 282.058 ppbv
RT: 6.11 min Scan# 1033
Delta R.T. 0.04 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 42 Resp: 5418324
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 0.0 31.3 46.9#





#42

Bromodichloromethane

Concen: 34.821 ppbv

RT: 7.90 min Scan# 1589

Delta R.T. 0.07 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

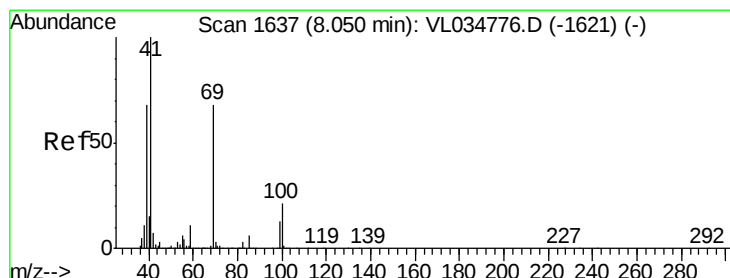
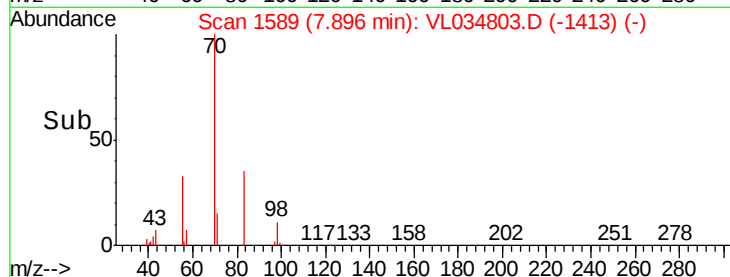
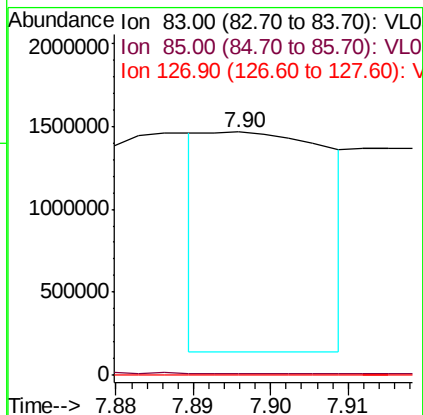
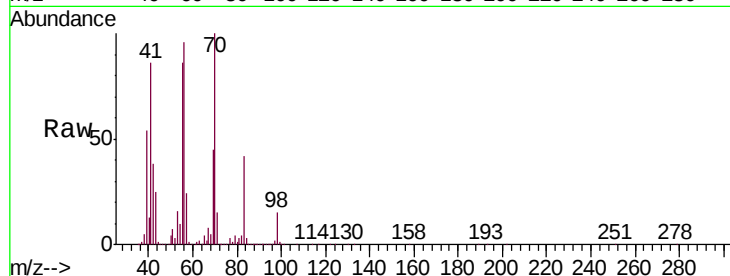
Tgt Ion: 83 Resp: 1488173

Ion Ratio Lower Upper

83 100

85 2.7 50.8 76.2#

127 0.0 6.5 9.7#



#43

Methyl Methacrylate

Concen: 19.331 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.09 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

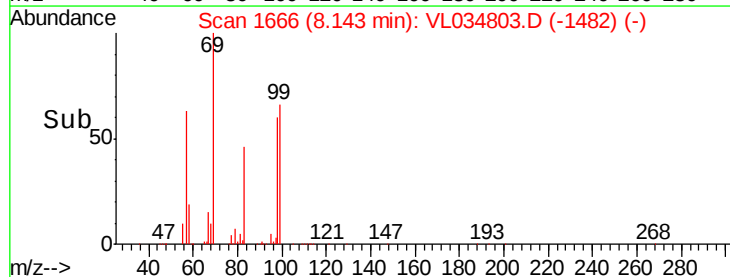
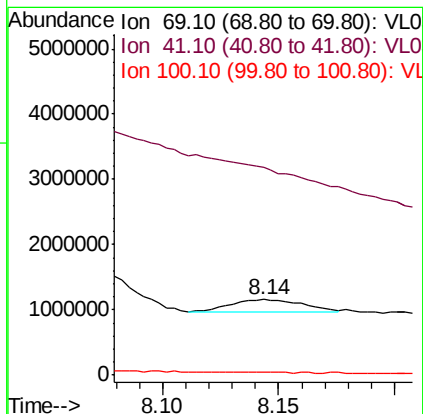
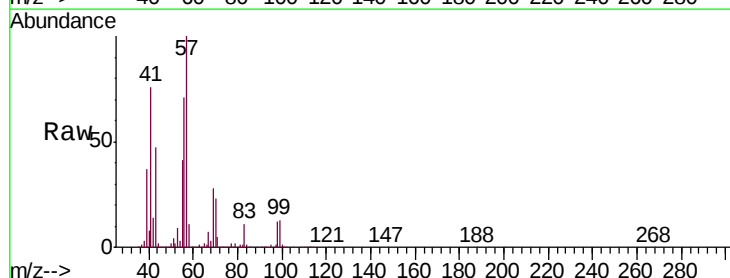
Tgt Ion: 69 Resp: 405084

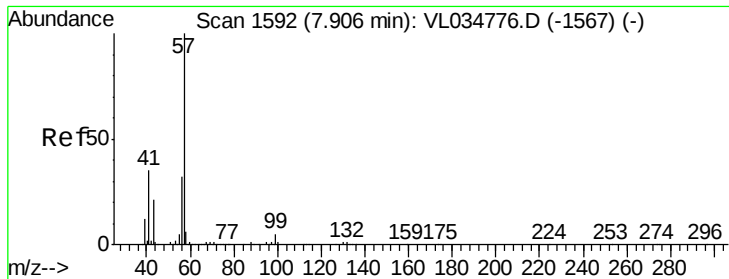
Ion Ratio Lower Upper

69 100

41 0.0 121.6 182.4#

100 0.0 23.8 35.8#





#44

2,2,4-Trimethylpentane

Concen: 171.835 ppbv

RT: 8.08 min Scan# 1646

Delta R.T. 0.17 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

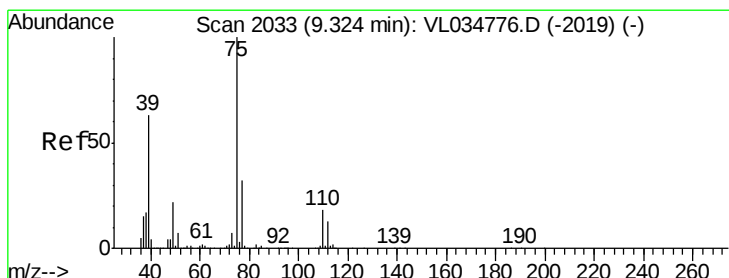
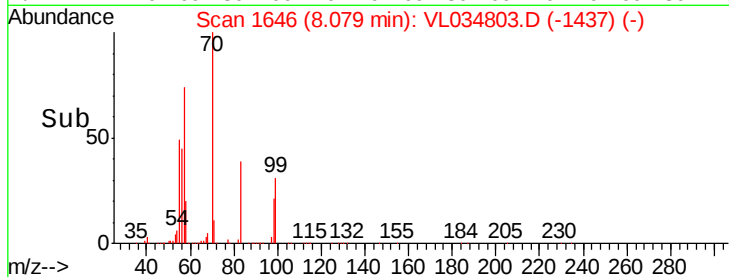
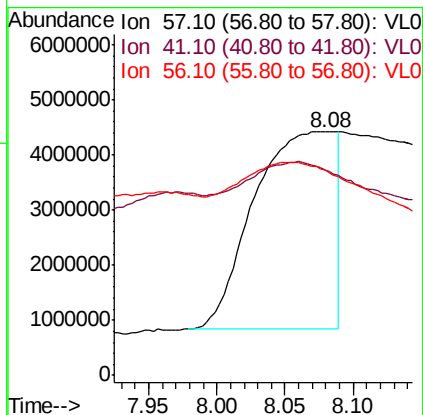
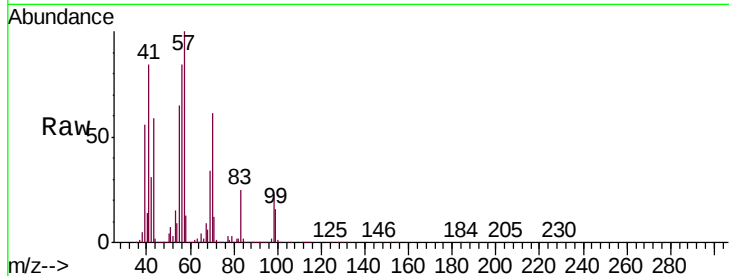
Tgt Ion: 57 Resp:14849457

Ion Ratio Lower Upper

57 100

41 94.6 27.4 41.0#

56 145.0 25.0 37.6#



#45

t-1,3-Dichloropropene

Concen: 0.045 ppbv

RT: 9.42 min Scan# 2063

Delta R.T. 0.10 min

Lab File: VL034803.D

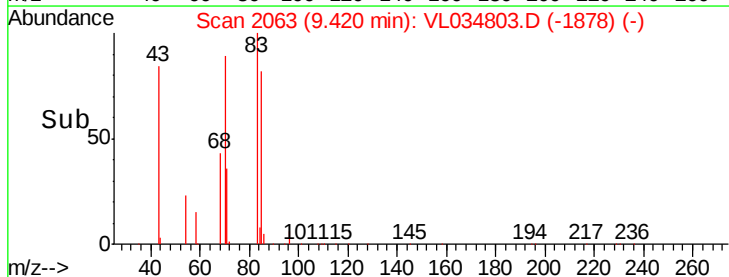
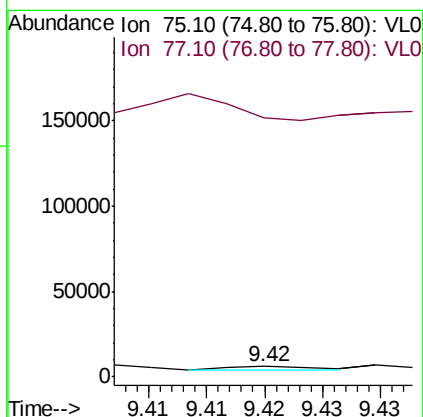
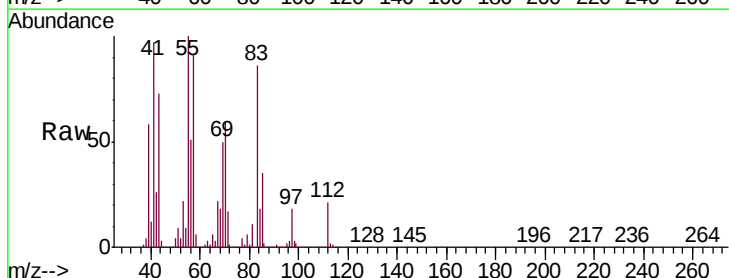
Acq: 5 Mar 2020 19:48

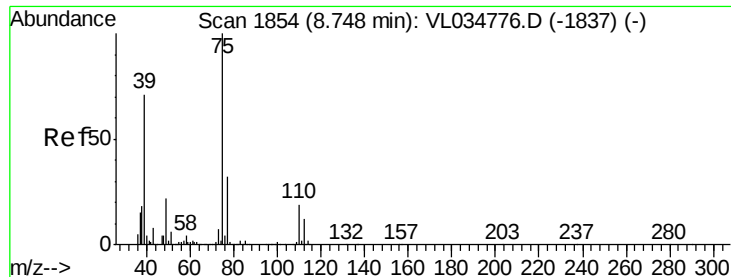
Tgt Ion: 75 Resp: 989

Ion Ratio Lower Upper

75 100

77 2518.3 25.6 38.4#





#46

cis-1,3-Dichloropropene

Concen: 0.947 ppbv

RT: 8.85 min Scan# 1885

Delta R.T. 0.10 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

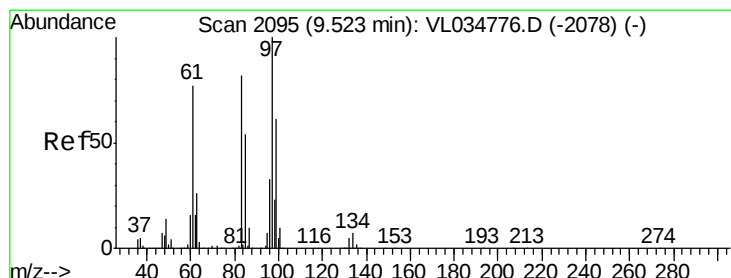
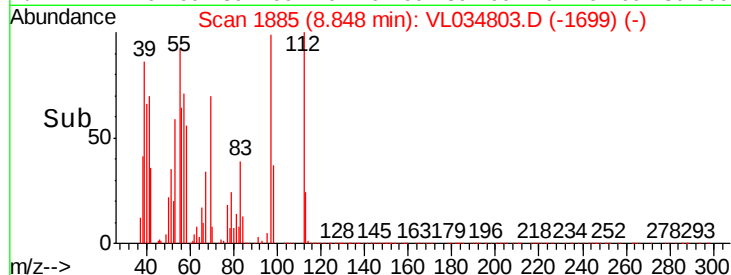
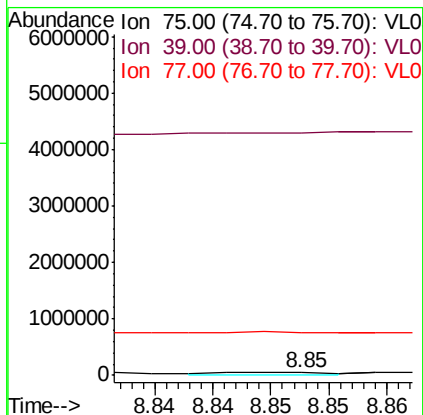
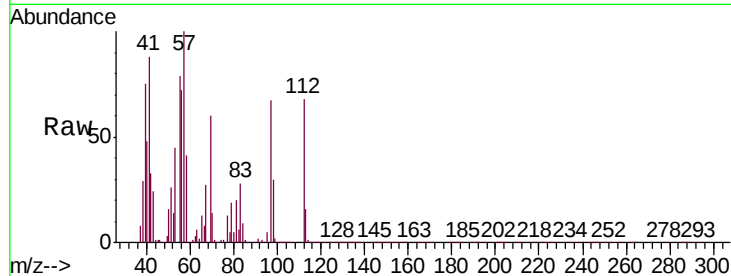
Tgt Ion: 75 Resp: 25426

Ion Ratio Lower Upper

75 100

39 228.3 56.9 85.3#

77 0.0 25.7 38.5#



#47

1,1,2-Trichloroethane

Concen: 239.926 ppbv

RT: 9.69 min Scan# 2147

Delta R.T. 0.17 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Tgt Ion: 97 Resp: 5055102

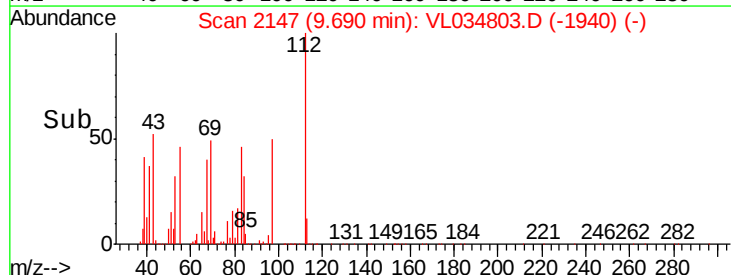
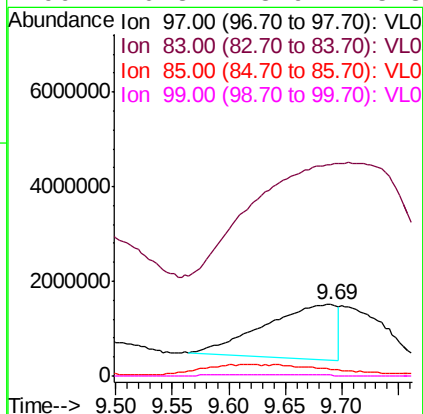
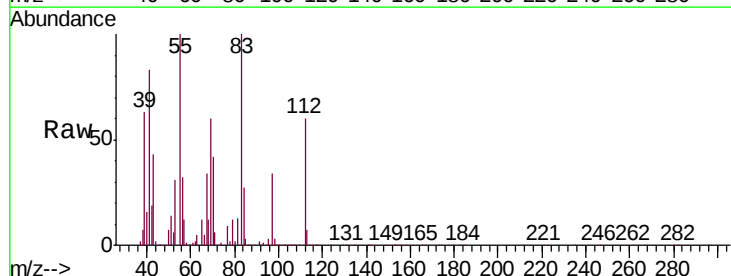
Ion Ratio Lower Upper

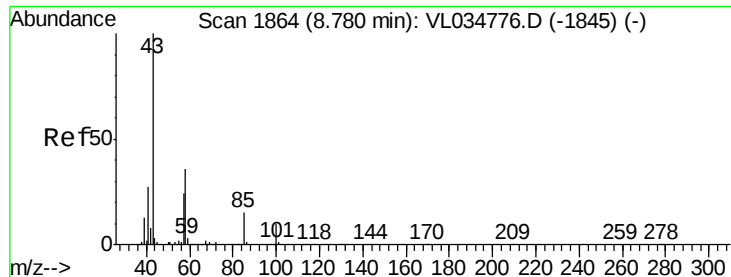
97 100

83 233.8 65.2 97.8#

85 4.0 43.6 65.4#

99 0.3 48.9 73.3#

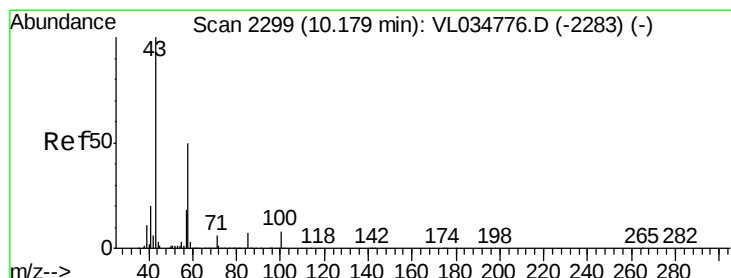
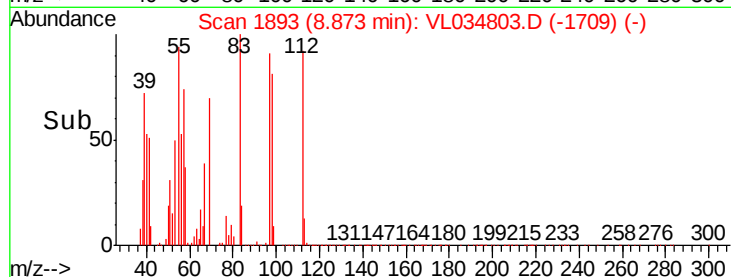
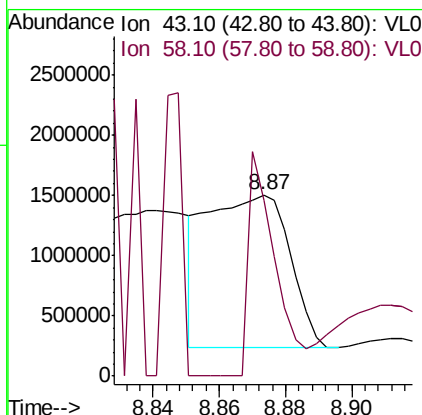
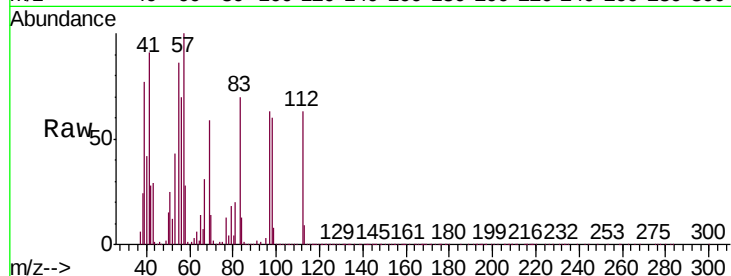




#50
4-Methyl-2-Pentanone
Concen: 40.584 ppbv
RT: 8.87 min Scan# 1893
Delta R.T. 0.09 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

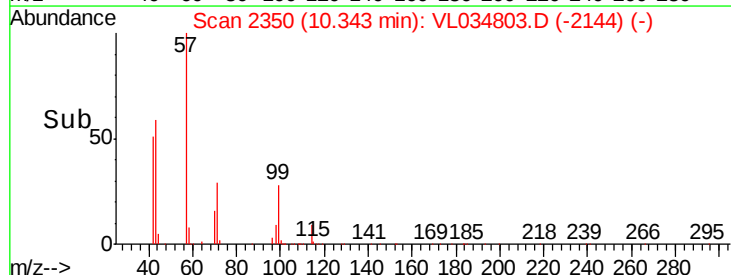
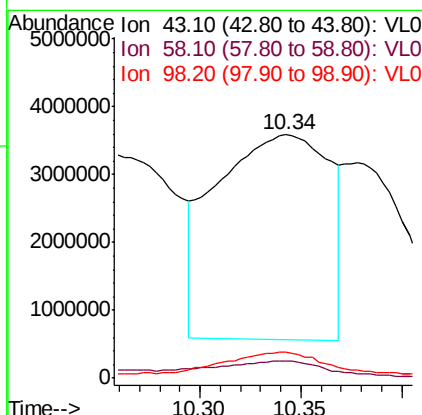
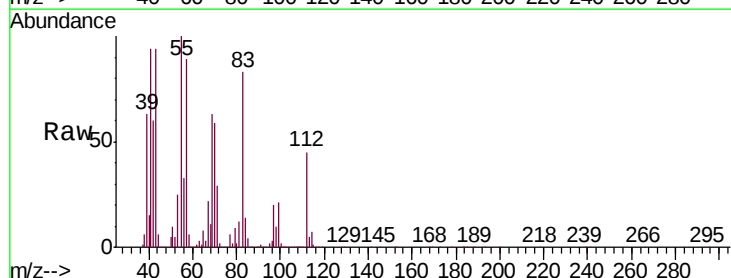
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

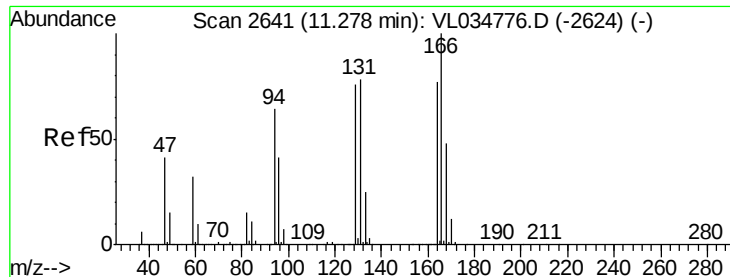
Tgt Ion: 43 Resp: 2189323
Ion Ratio Lower Upper
43 100
58 53.1 28.7 43.1#



#51
2-Hexanone
Concen: 278.944 ppbv
RT: 10.34 min Scan# 2350
Delta R.T. 0.16 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 43 Resp: 11804213
Ion Ratio Lower Upper
43 100
58 7.7 38.6 58.0#
98 14.4 0.2 0.4#





#52

Tetrachloroethene

Concen: 0.224 ppbv

RT: 11.41 min Scan# 2681

Delta R.T. 0.13 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

SS-4-4

Tgt Ion:164 Resp: 4099

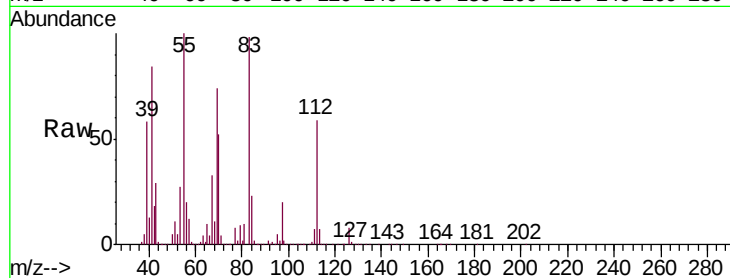
Ion Ratio Lower Upper

164 100

166 45.9 103.3 154.9#

129 19.7 79.0 118.4#

131 39.5 81.0 121.4#

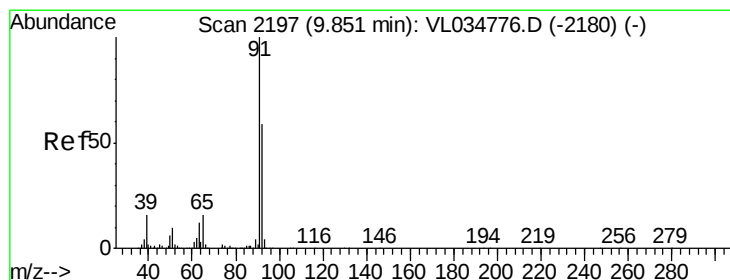
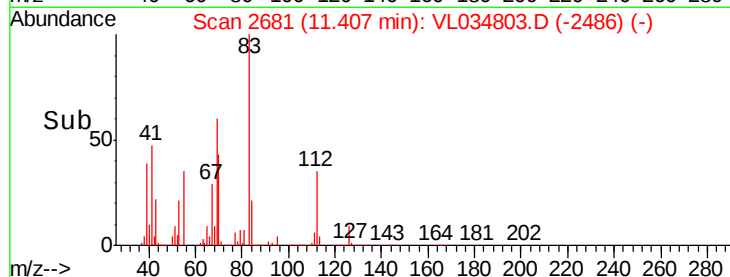
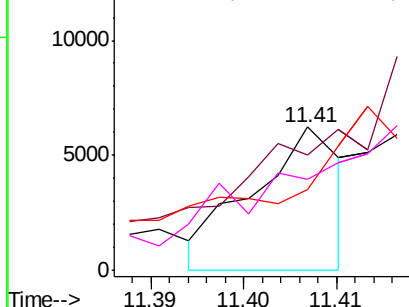


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 426.426 ppbv

RT: 10.03 min Scan# 2252

Delta R.T. 0.18 min

Lab File: VL034803.D

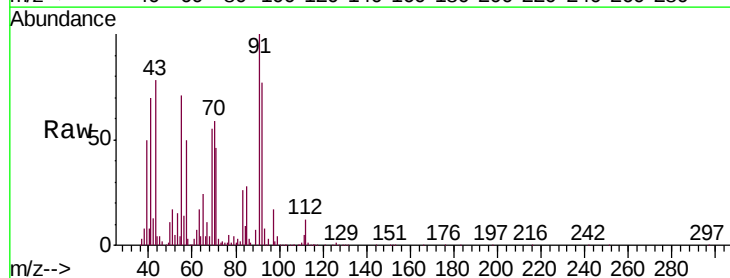
Acq: 5 Mar 2020 19:48

Tgt Ion: 91 Resp:22318065

Ion Ratio Lower Upper

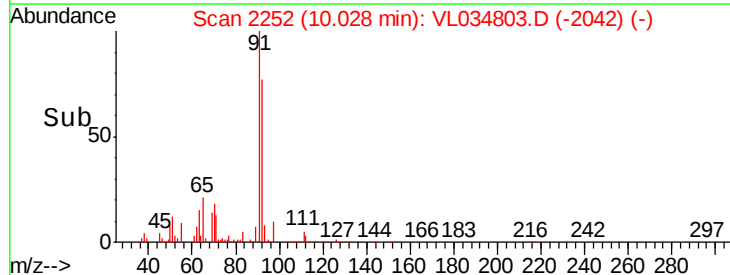
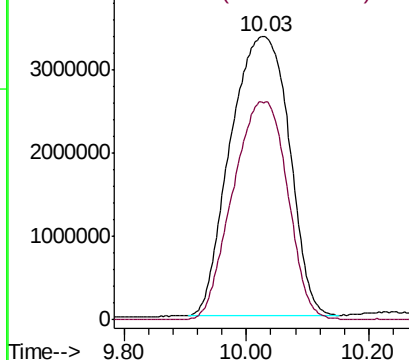
91 100

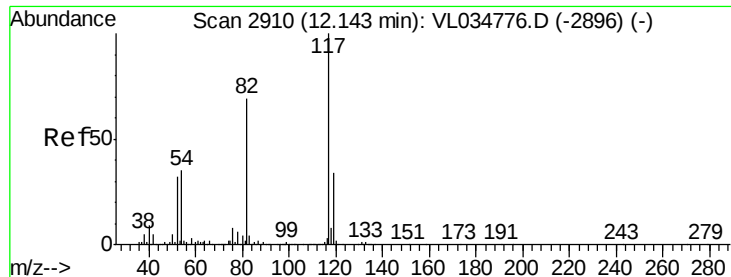
92 72.8 48.2 72.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

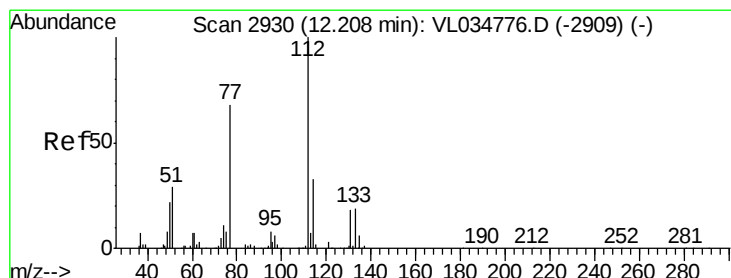
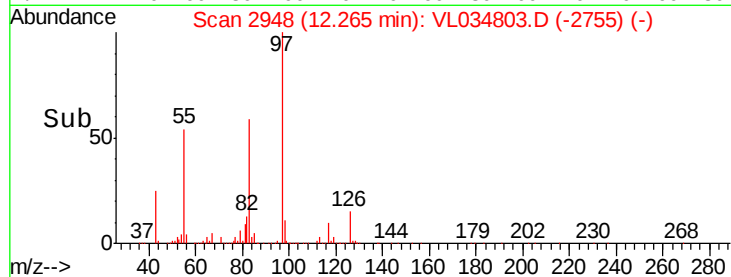
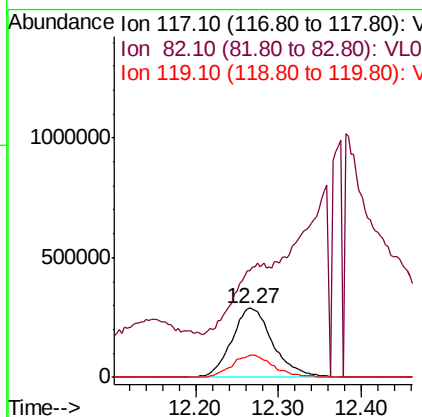
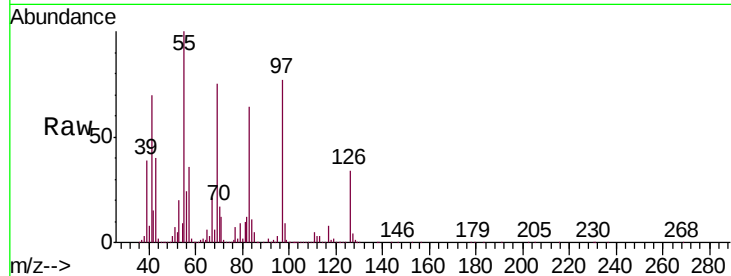




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2948
Delta R.T. 0.12 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

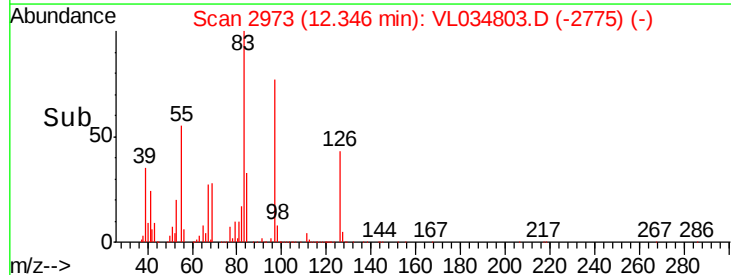
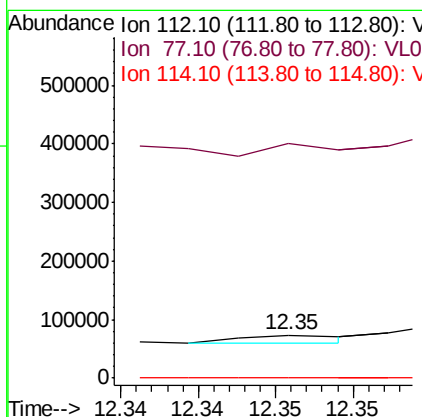
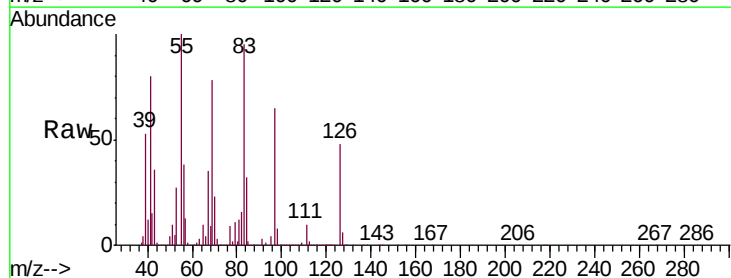
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

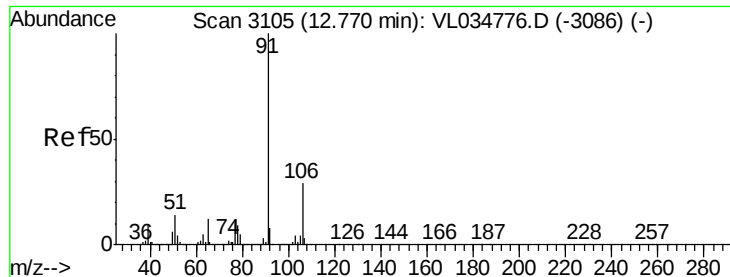
Tgt Ion:117 Resp: 989987
Ion Ratio Lower Upper
117 100
82 423.7 53.9 80.9#
119 33.2 25.0 37.4



#57
Chlorobenzene
Concen: 0.080 ppbv
RT: 12.35 min Scan# 2973
Delta R.T. 0.14 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion:112 Resp: 6041
Ion Ratio Lower Upper
112 100
77 91.1 55.6 83.4#
114 2.3 29.4 36.0#





#58

Ethyl Benzene

Concen: 10.403 ppbv

RT: 12.91 min Scan# 3149

Delta R.T. 0.14 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

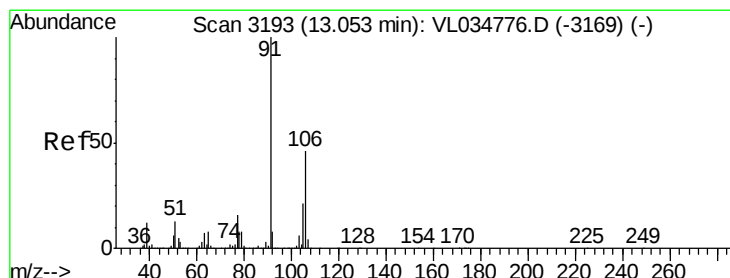
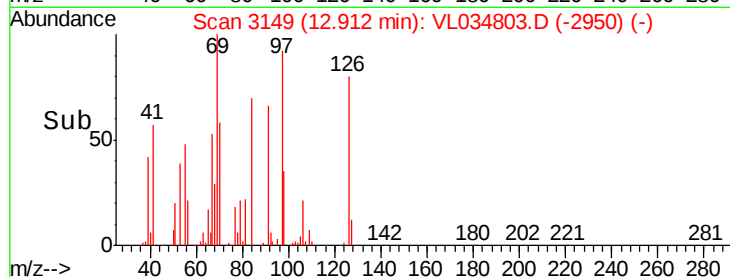
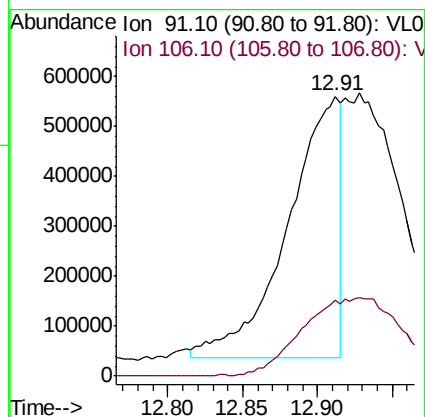
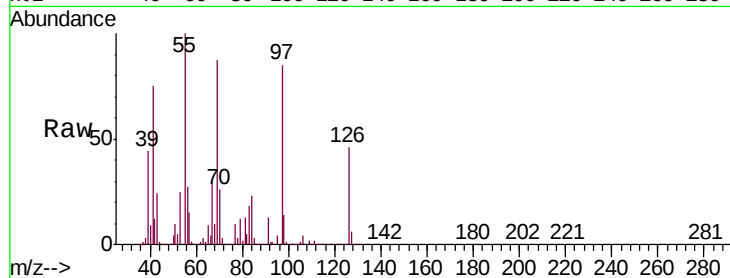
SS-4-4

Tgt Ion: 91 Resp: 1269171

Ion Ratio Lower Upper

91 100

106 29.8 22.8 34.2



#59

m/p-Xylene

Concen: 20.547 ppbv

RT: 13.18 min Scan# 3232

Delta R.T. 0.13 min

Lab File: VL034803.D

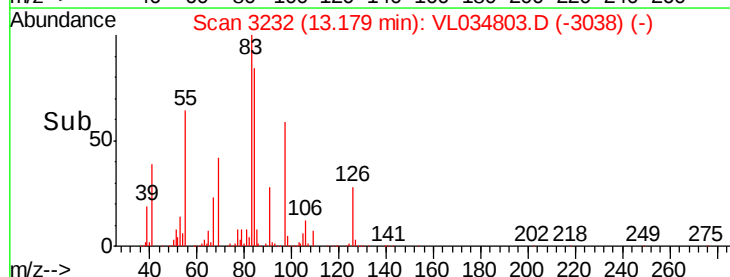
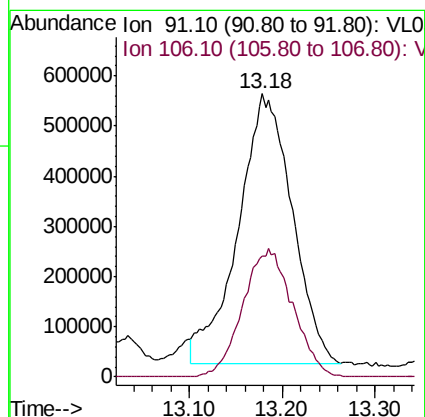
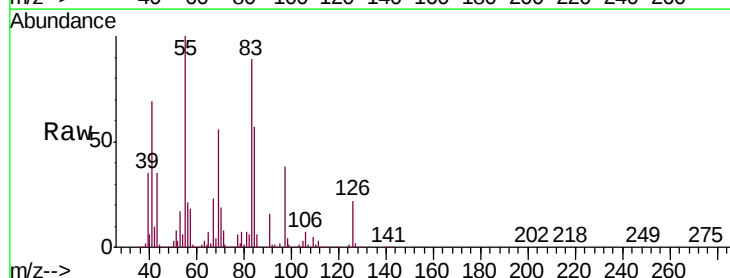
Acq: 5 Mar 2020 19:48

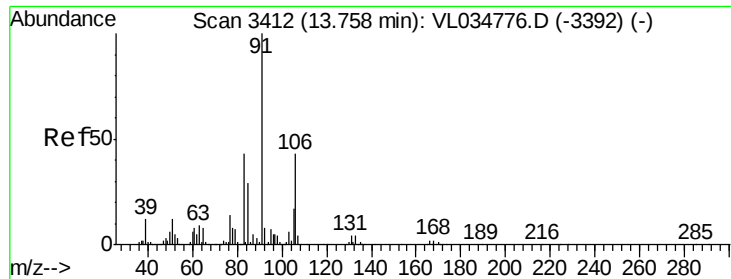
Tgt Ion: 91 Resp: 2169990

Ion Ratio Lower Upper

91 100

106 43.9 35.8 53.8

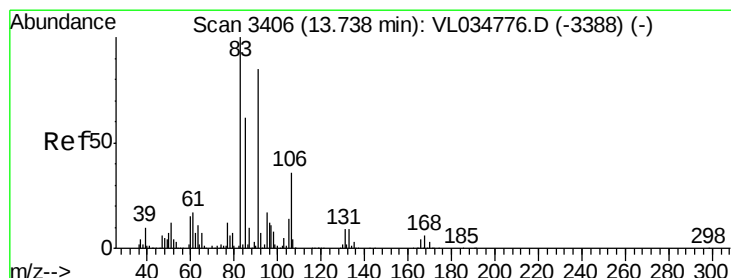
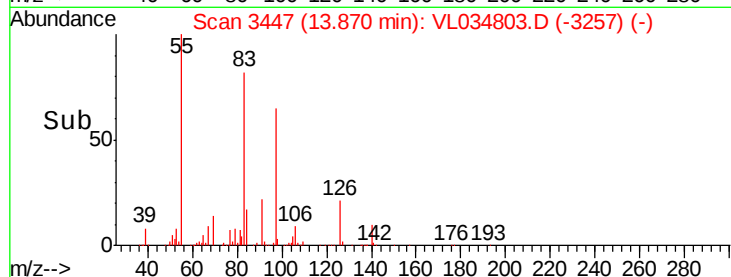
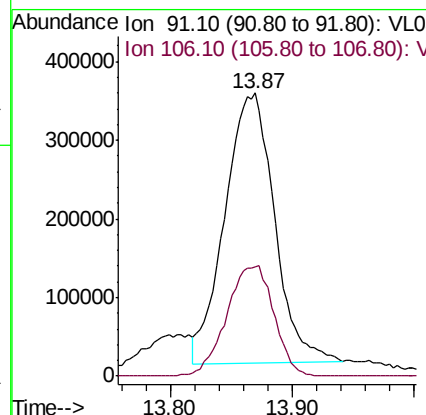
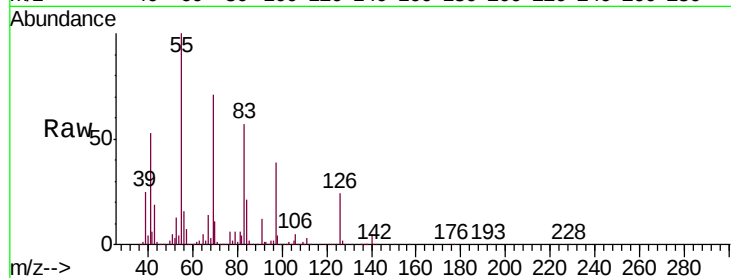




#60
o-Xylene
Concen: 9.070 ppbv
RT: 13.87 min Scan# 3447
Delta R.T. 0.11 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

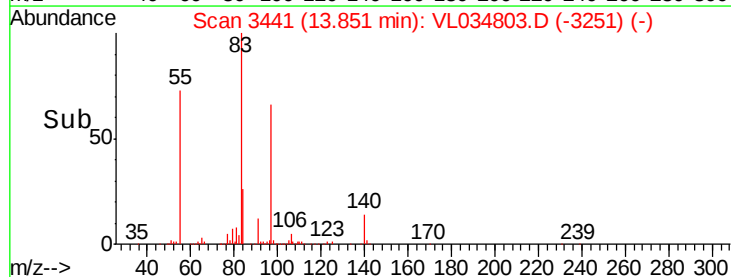
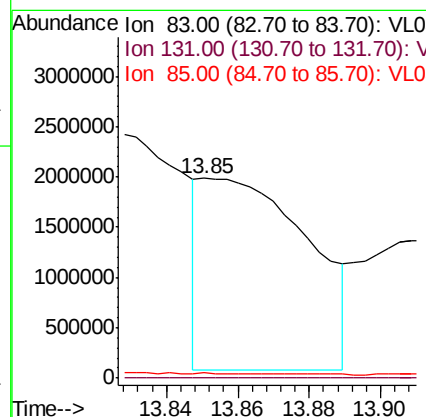
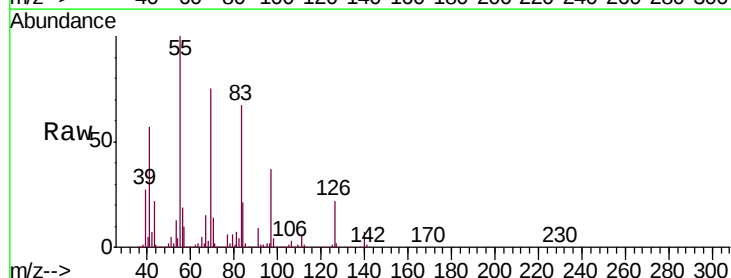
Instrument :
MSVOA_L
ClientSampled :
SS-4-4

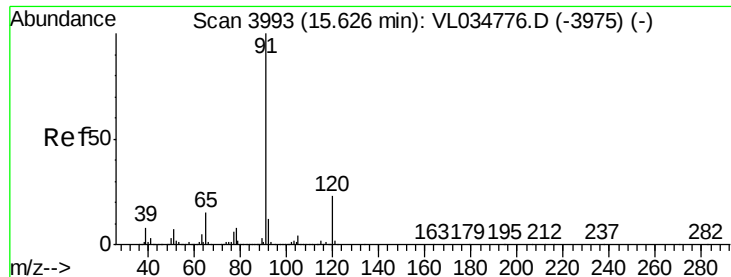
Tgt Ion: 91 Resp: 969195
Ion Ratio Lower Upper
91 100
106 39.2 21.7 65.1



#63
1,1,2,2-Tetrachloroethane
Concen: 46.643 ppbv
RT: 13.85 min Scan# 3441
Delta R.T. 0.11 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 83 Resp: 3928853
Ion Ratio Lower Upper
83 100
131 0.0 4.7 14.0#
85 0.0 32.9 98.7#





#64

n-propylbenzene

Concen: 0.083 ppbv

RT: 15.65 min Scan# 4002

Delta R.T. 0.03 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

Instrument :

MSVOA_L

ClientSampleId :

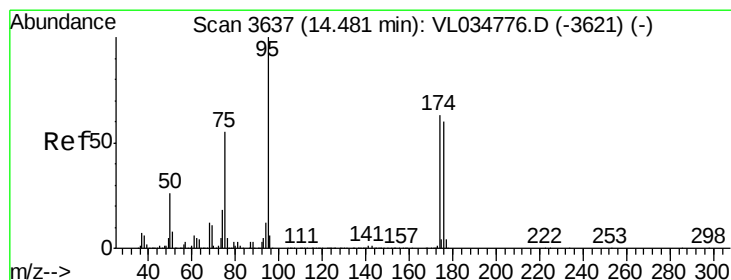
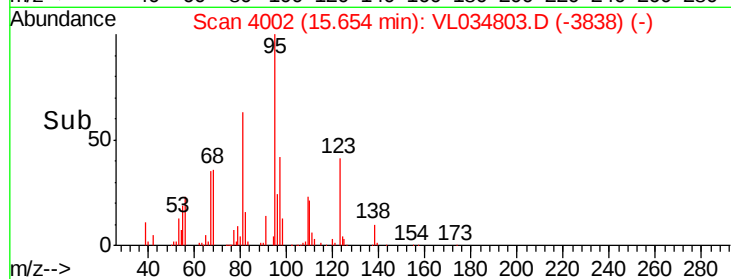
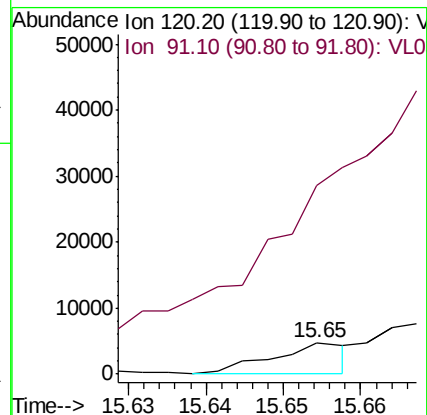
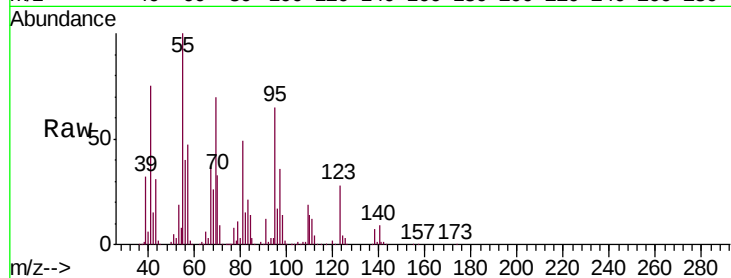
SS-4-4

Tgt Ion: 120 Resp: 3256

Ion Ratio Lower Upper

120 100

91 492.6 379.4 569.2



#68

1-Bromo-4-Fluorobenzene

Concen: 25.016 ppbv

RT: 14.56 min Scan# 3661

Delta R.T. 0.08 min

Lab File: VL034803.D

Acq: 5 Mar 2020 19:48

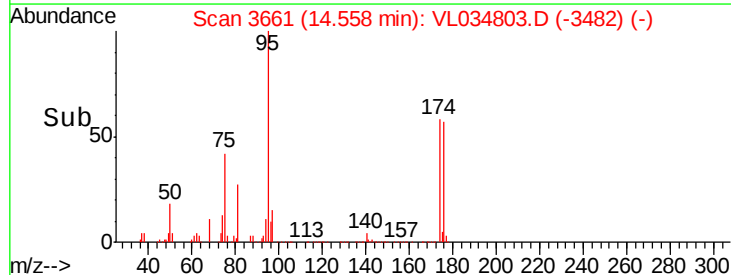
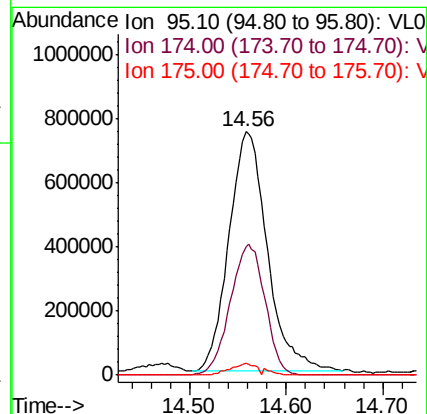
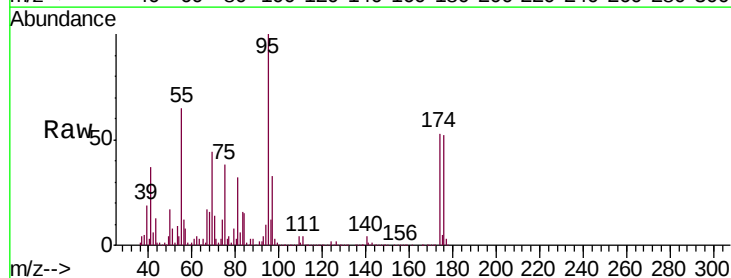
Tgt Ion: 95 Resp: 2065056

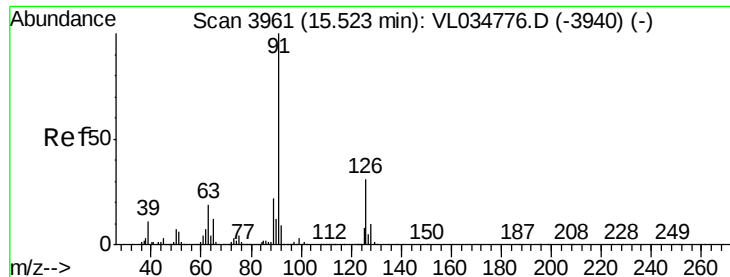
Ion Ratio Lower Upper

95 100

174 49.3 50.6 76.0#

175 3.8 3.8 5.6

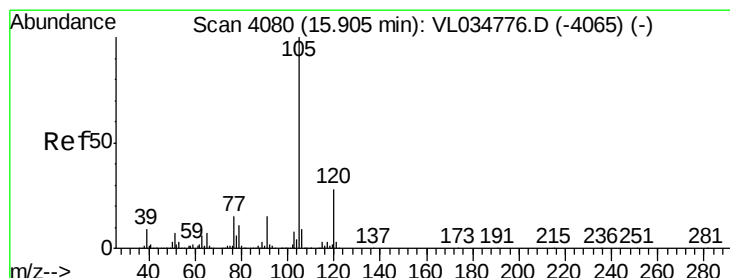
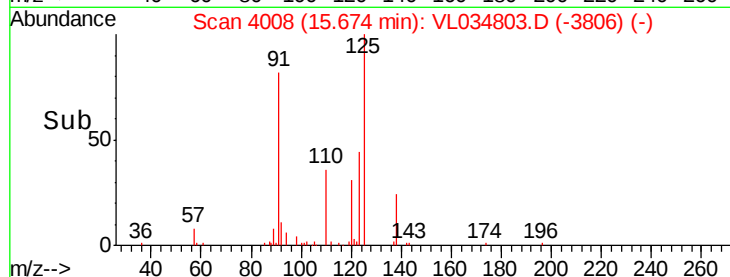
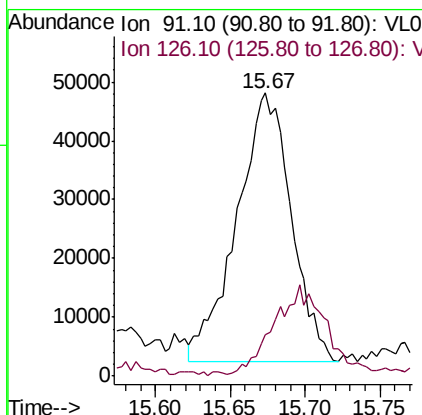
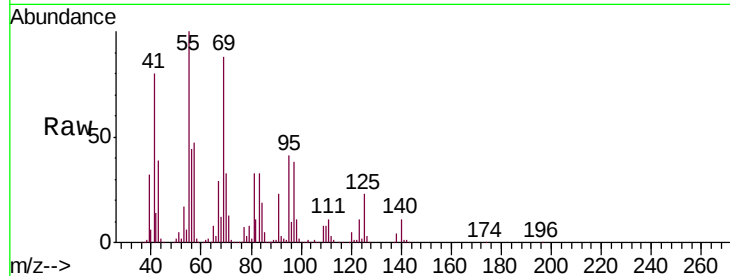




#71
2-Chlorotoluene
Concen: 0.981 ppbv
RT: 15.67 min Scan# 4008
Delta R.T. 0.15 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

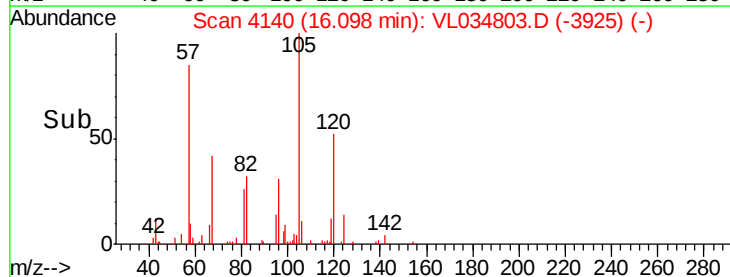
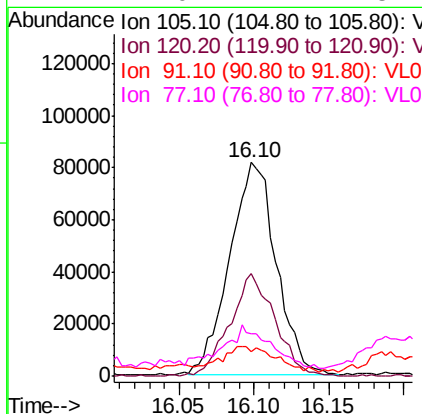
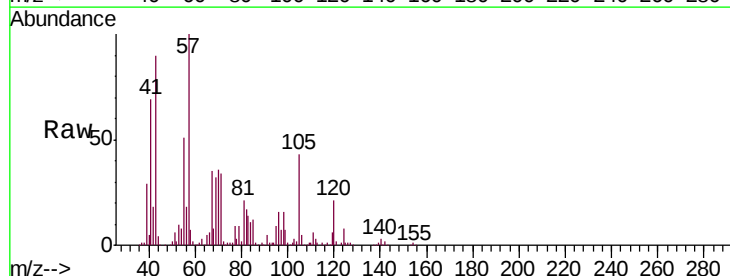
Instrument :
MSVOA_L
ClientSampleId :
SS-4-4

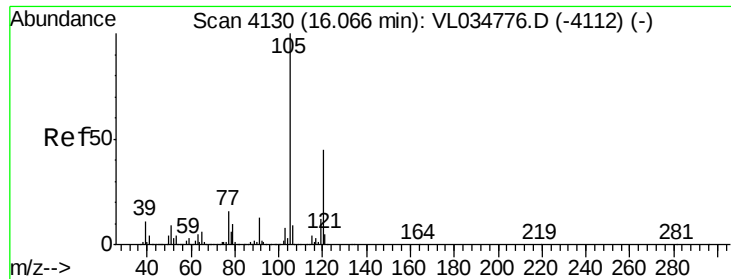
Tgt Ion: 91 Resp: 116468
Ion Ratio Lower Upper
91 100
126 31.6 11.7 46.7



#72
4-Ethyltoluene
Concen: 1.482 ppbv
RT: 16.10 min Scan# 4140
Delta R.T. 0.19 min
Lab File: VL034803.D
Acq: 5 Mar 2020 19:48

Tgt Ion: 105 Resp: 176297
Ion Ratio Lower Upper
105 100
120 46.5 23.0 34.6#
91 15.1 11.1 16.7
77 21.0 12.2 18.4#

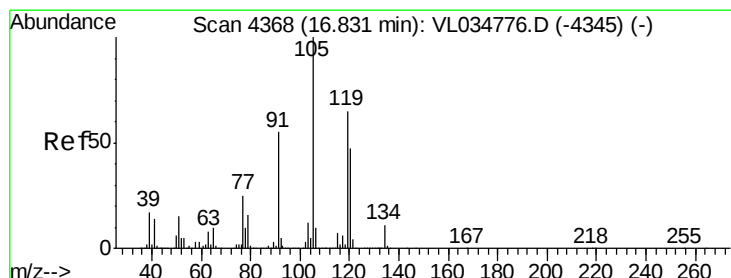
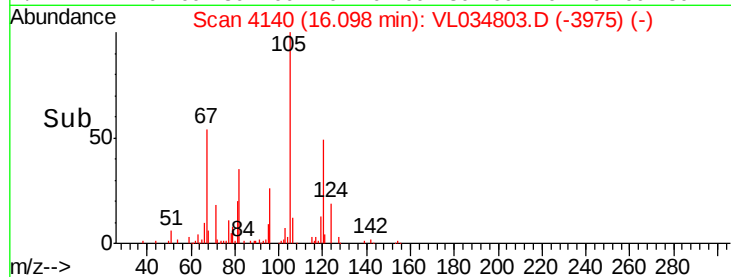
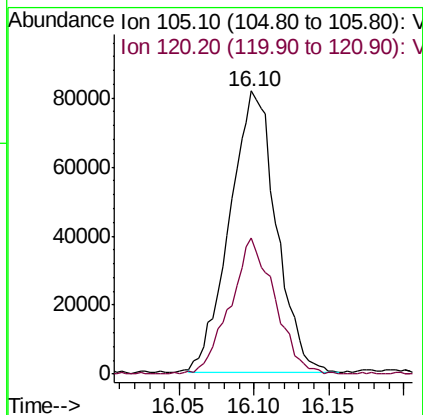
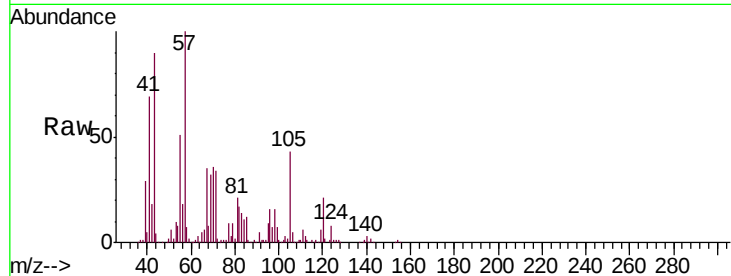




#73
 1,3,5-Trimethylbenzene
 Concen: 1.545 ppbv
 RT: 16.10 min Scan# 4140
 Delta R.T. 0.03 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-4-4

Tgt Ion:105 Resp: 176297
 Ion Ratio Lower Upper
 105 100
 120 48.5 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 1.710 ppbv
 RT: 16.85 min Scan# 4375
 Delta R.T. 0.02 min
 Lab File: VL034803.D
 Acq: 5 Mar 2020 19:48

Tgt Ion:105 Resp: 212077
 Ion Ratio Lower Upper
 105 100
 120 41.4 37.8 56.6
 91 11.0 43.8 65.8#
 77 15.6 19.9 29.9#

