

Data File : VL034032.D
Acq On : 12 Jul 2019 8:51
Operator : SY/AP
Sample : VL0711ABS01
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Quant Time: Jul 12 15:41:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1079031	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.25	114	2808681	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.20	117	3535501	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.53	95	2190191	7.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	72.60%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.06	85	1716189	7.707	ppbv	99
3) Chlorodifluoromethane	2.99	51	1279404	9.602	ppbv	95
4) Chloromethane	3.15	50	686383	8.959	ppbv	96
5) Vinyl Chloride	3.27	62	743558	8.631	ppbv	99
6) Bromomethane	3.49	94	486151	9.569	ppbv	97
7) Chloroethane	3.58	64	288864	9.381	ppbv	98
8) Dichlorotetrafluoroethane	3.20	85	1834474	8.450	ppbv	99
9) Propene	3.02	41	517781	10.563	ppbv	96
10) Heptane	8.21	43	1467019	11.953	ppbv	99
11) Trichlorofluoromethane	3.98	101	1941669	7.755	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.52	101	1559351	8.798	ppbv	100
13) Ethanol	3.63	45	181895	11.945	ppbv	93
14) Bromoethene	3.76	108	611157	9.234	ppbv	98
15) Acetone	3.88	43	1439875	7.937	ppbv	97
16) 1,3-Butadiene	3.34	39	639076	9.976	ppbv	98
17) tert-Butyl alcohol	4.33	59	1622969	11.221	ppbv	100
18) 1,1-Dichloroethene	4.32	96	732575	9.281	ppbv	99
19) Isopropyl Alcohol	4.00	45	1171537	9.620	ppbv #	99
20) Methylene Chloride	4.38	84	625915	7.911	ppbv	95
21) Allyl Chloride	4.45	41	1106668	9.783	ppbv	97
22) trans-1,2-Dichloroethene	4.93	96	665206	8.844	ppbv	92
23) Vinyl Acetate	5.12	43	1984907	10.962	ppbv	99
24) 1,1-Dichloroethane	5.06	63	1568799	9.776	ppbv	98
25) Ethyl Acetate	5.73	43	2659943	10.720	ppbv	100
26) Hexane	5.74	57	1264369	11.135	ppbv	95
27) Carbon Disulfide	4.59	76	1831259	9.487	ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	2127048	11.061	ppbv	98
29) Chloroform	5.81	83	1994176	9.345	ppbv	96
30) Cyclohexane	7.21	84	1054565	12.026	ppbv	98
31) cis-1,2-Dichloroethene	5.61	61	1257719	11.465	ppbv	98
32) 1,1,1-Trichloroethane	6.58	97	2029011	9.381	ppbv	99
34) 2-Butanone	5.29	43	1623949	10.925	ppbv	100
35) Carbon Tetrachloride	7.09	117	2085841	9.381	ppbv	99
36) Benzene	6.97	78	2540652	11.560	ppbv	98
37) 1,2-Dichloroethane	6.38	62	1523389	9.409	ppbv	98
38) Trichloroethene	7.92	130	1052564	10.764	ppbv	99
39) 1,2-Dichloropropane	7.70	63	948271	11.604	ppbv	99
40) 1,4-Dioxane	7.91	88	381818	10.120	ppbv #	92
41) Tetrahydrofuran	6.11	42	910545	12.490	ppbv	98
42) Bromodichloromethane	7.88	83	2272528	10.461	ppbv	99
43) Methyl Methacrylate	8.10	69	1034254	12.403	ppbv	99

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Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Quant Time: Jul 12 15:41:41 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4343308	11.449	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1257315	11.531	ppbv	99
46) cis-1,3-Dichloropropene	8.80	75	1487167	11.777	ppbv	98
47) 1,1,2-Trichloroethane	9.57	97	1079096	10.502	ppbv	98
48) Dibromochloromethane	10.41	129	1942569	9.908	ppbv	99
49) Bromoform	13.16	173	1708390	10.200	ppbv	99
50) 4-Methyl-2-Pentanone	8.83	43	2534473	11.490	ppbv	99
51) 2-Hexanone	10.23	43	2055278	11.554	ppbv #	99
52) Tetrachloroethene	11.33	164	990263	10.469	ppbv	96
53) Toluene	9.90	91	3066483	12.189	ppbv	99
54) 1,2-Dibromoethane	10.71	107	1670372	11.016	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.24	131	1315228	8.323	ppbv	99
57) Chlorobenzene	12.26	112	2291148	8.140	ppbv	99
58) Ethyl Benzene	12.82	91	4067019	9.566	ppbv	99
59) m/p-Xylene	13.11	91	3883995	10.089	ppbv #	48
60) o-Xylene	13.80	91	3334643	8.659	ppbv	99
61) Styrene	13.64	104	2407889	9.448	ppbv	99
62) Isopropylbenzene	14.79	105	4565913	7.712	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.79	83	2339609	7.848	ppbv	99
64) n-propylbenzene	15.68	120	1162728	7.574	ppbv	98
65) tert-Butylbenzene	16.87	119	4096821	8.138	ppbv	99
66) Benzyl Chloride	17.11	91	1682957	6.534	ppbv	99
67) sec-Butylbenzene	17.42	105	5808261	8.219	ppbv	99
69) p-Isopropyltoluene	17.77	119	4773703	8.193	ppbv	100
70) n-Butylbenzene	18.67	91	4991769	8.156	ppbv	99
71) 2-Chlorotoluene	15.57	91	3464116	7.995	ppbv	100
72) 4-Ethyltoluene	15.96	105	3900338	7.886	ppbv	98
73) 1,3,5-Trimethylbenzene	16.12	105	3750714	8.151	ppbv	99
74) 1,2,4-Trimethylbenzene	16.88	105	3877749	7.608	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2236137	6.907	ppbv	100
76) 1,4-Dichlorobenzene	17.26	146	2192646	7.191	ppbv	99
77) 1,2-Dichlorobenzene	17.94	146	2198136	7.332	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1521299	5.964	ppbv	99
79) Naphthalene	22.36	128	3173426	7.406	ppbv	98
80) Naphthalene,2-methyl-	25.08	142	593456	3.806	ppbv	97
81) 1,2,4-Trichlorobenzene	22.08	180	1859316	6.756	ppbv	100

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

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Misc : 400mL/MSV0A_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

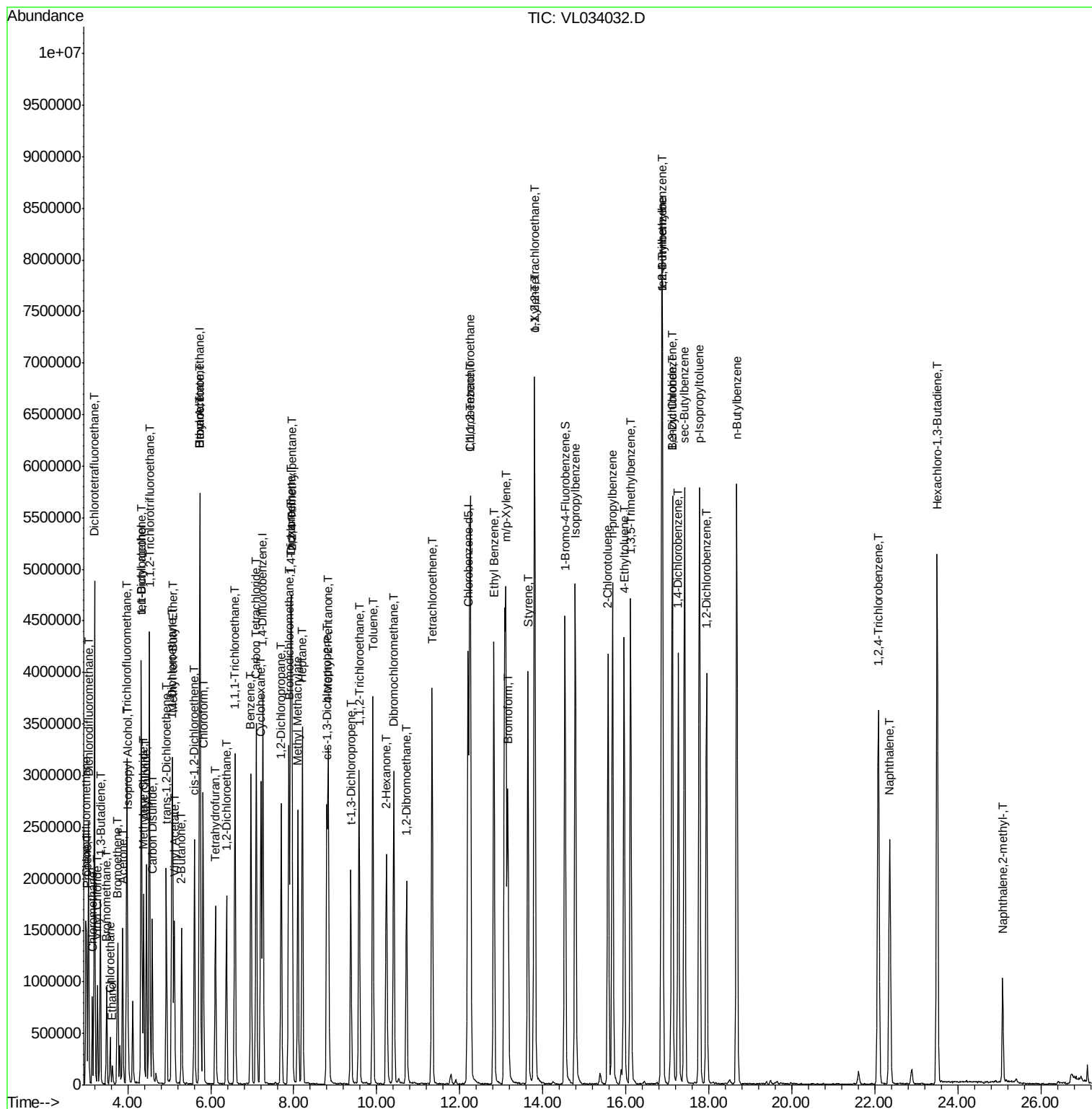
Quant Time: Jul 12 15:41:41 2019

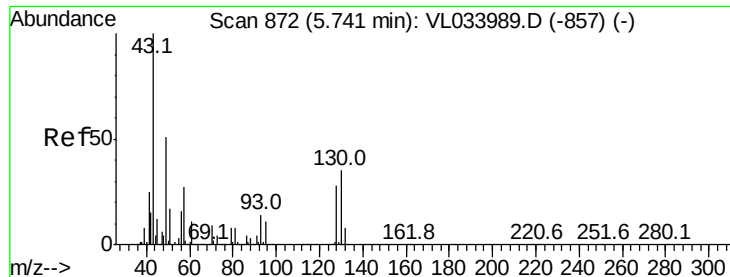
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL070219AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LTue Jul 02 19:31:31 2019

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 868

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VL0711ABS02

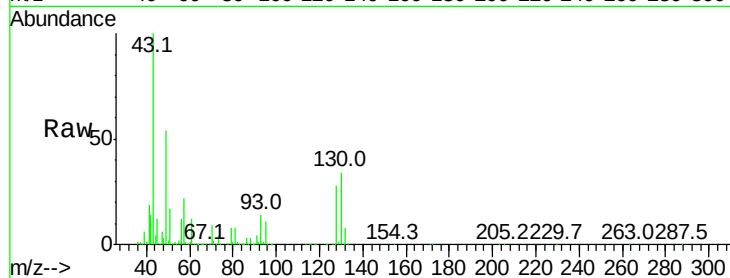
Tgt Ion: 49 Resp: 1079031

Ion Ratio Lower Upper

49 100

128 53.3 27.9 83.6

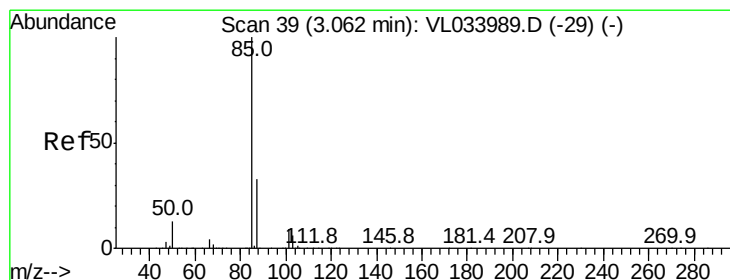
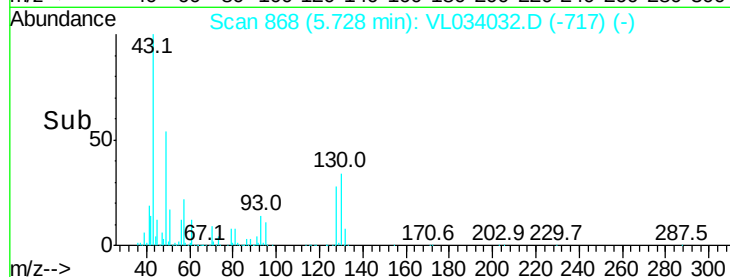
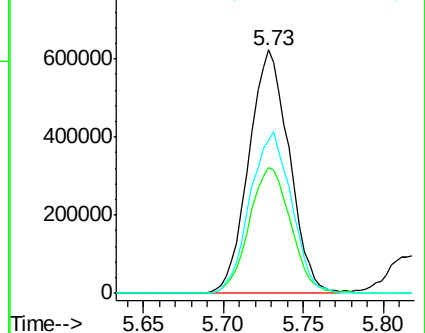
130 68.2 35.8 107.4



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: 7.707 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL034032.D

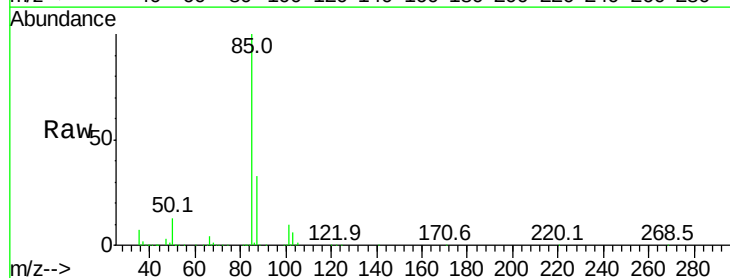
Acq: 12 Jul 2019 8:51

Tgt Ion: 85 Resp: 1716189

Ion Ratio Lower Upper

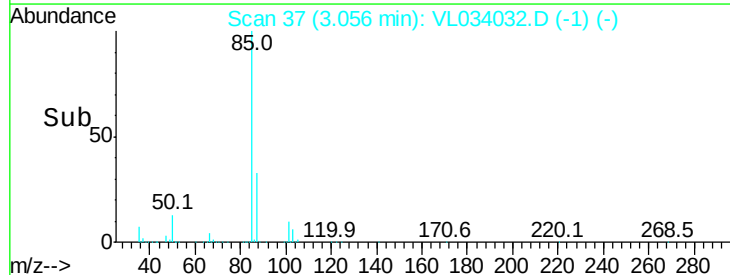
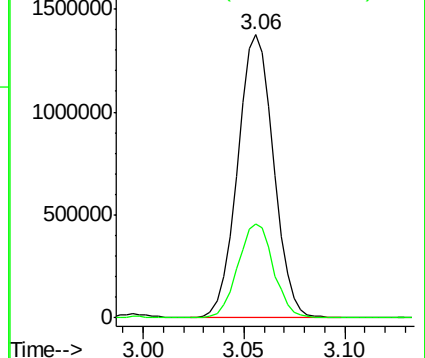
85 100

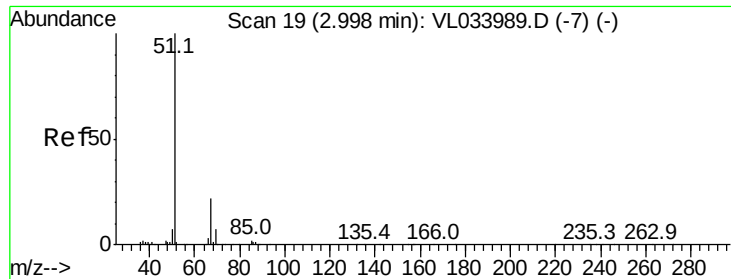
87 33.1 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

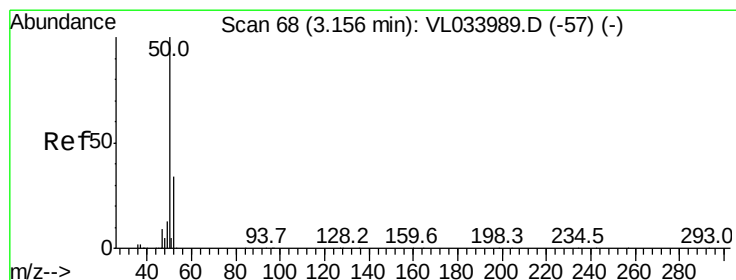
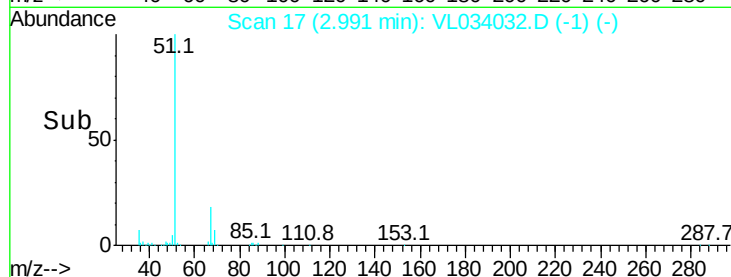
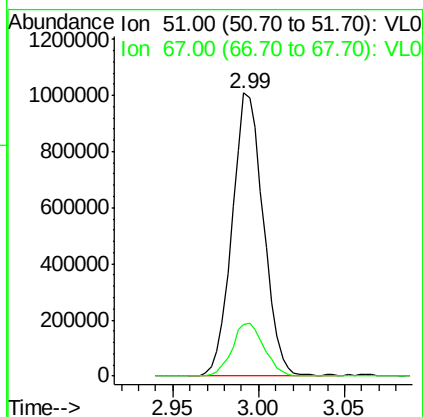
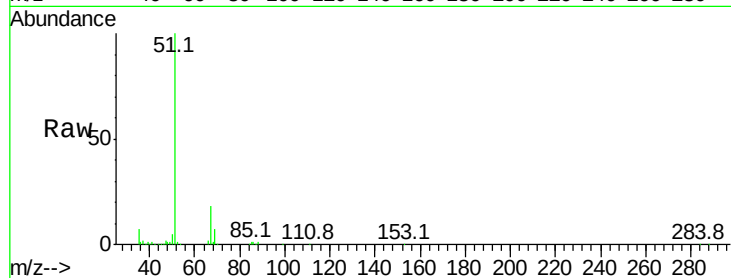




#3
 Chlorodifluoromethane
 Concen: 9.602 ppbv
 RT: 2.99 min Scan# 17
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

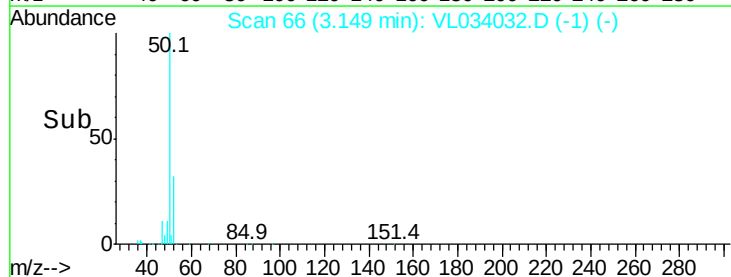
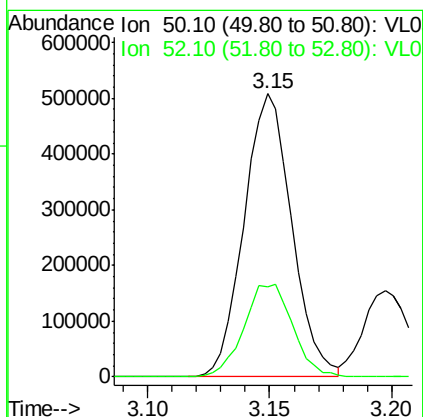
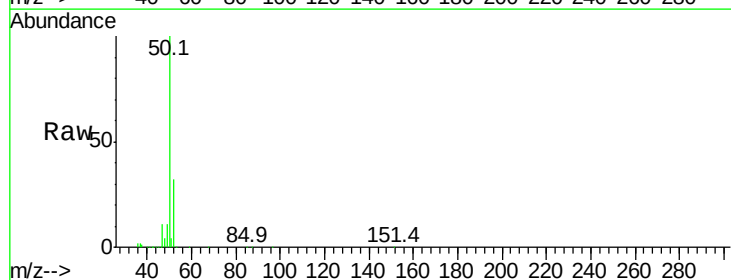
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

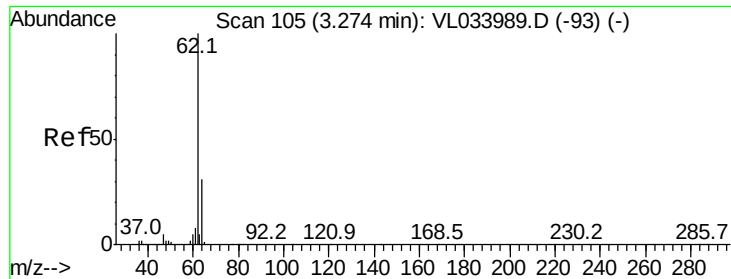
Tgt Ion: 51 Resp: 1279404
 Ion Ratio Lower Upper
 51 100
 67 19.1 17.3 25.9



#4
 Chloromethane
 Concen: 8.959 ppbv
 RT: 3.15 min Scan# 66
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 50 Resp: 686383
 Ion Ratio Lower Upper
 50 100
 52 31.7 27.4 41.0





#5

Vinyl Chloride

Concen: 8.631 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

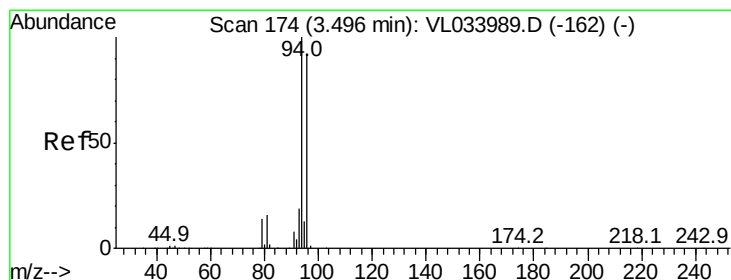
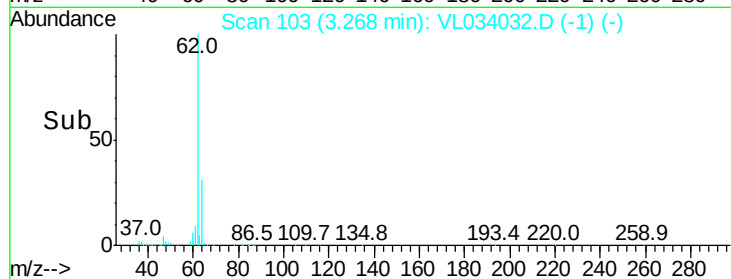
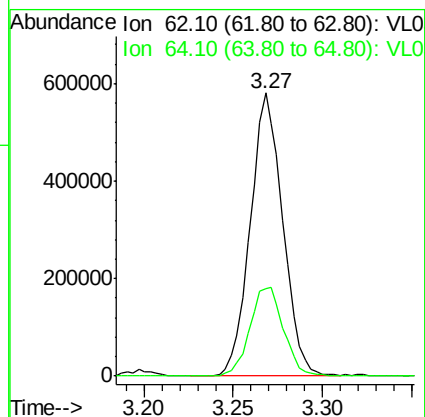
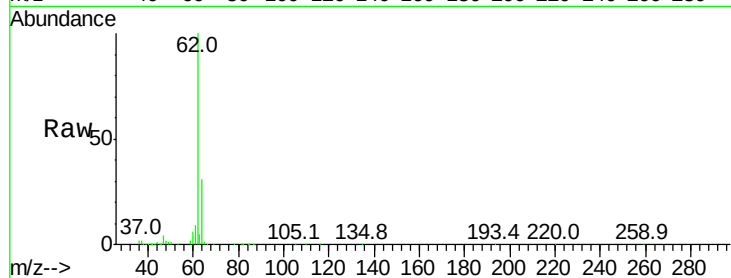
VL0711ABS02

Tgt Ion: 62 Resp: 743558

Ion Ratio Lower Upper

62 100

64 30.8 24.4 36.6



#6

Bromomethane

Concen: 9.569 ppbv

RT: 3.49 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL034032.D

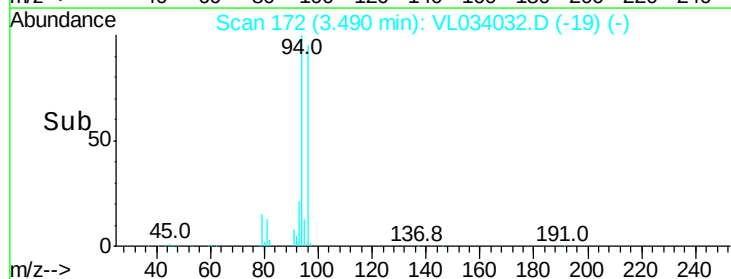
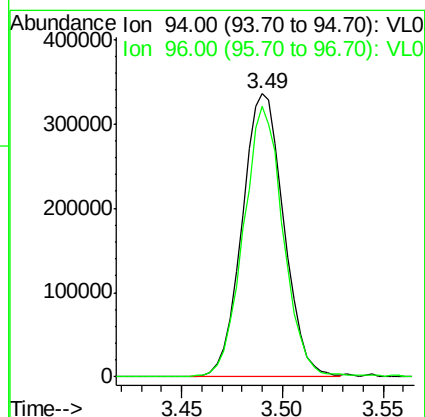
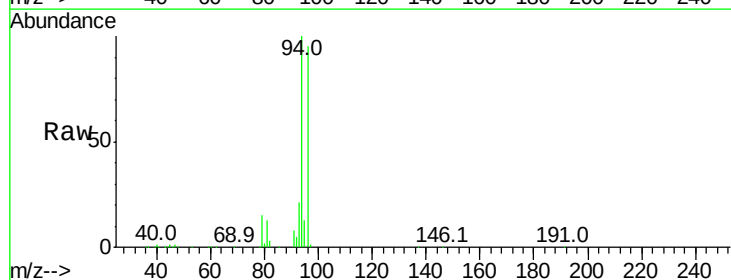
Acq: 12 Jul 2019 8:51

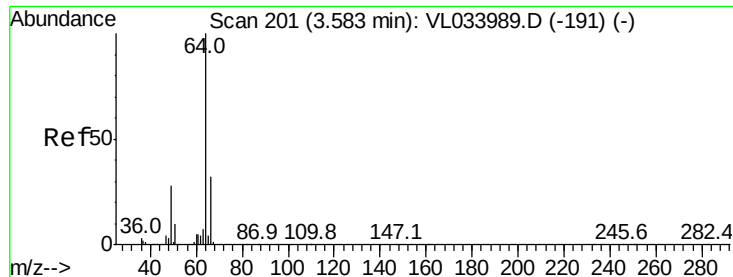
Tgt Ion: 94 Resp: 486151

Ion Ratio Lower Upper

94 100

96 95.5 73.8 110.8





#7

Chloroethane

Concen: 9.381 ppbv

RT: 3.58 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

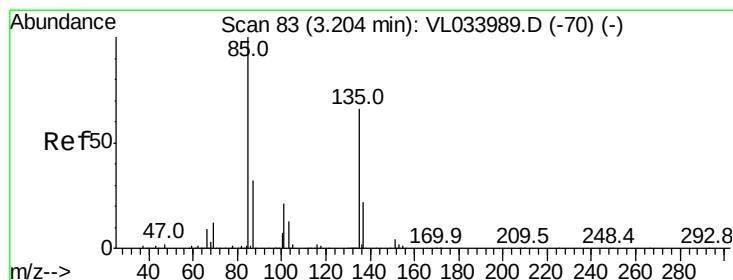
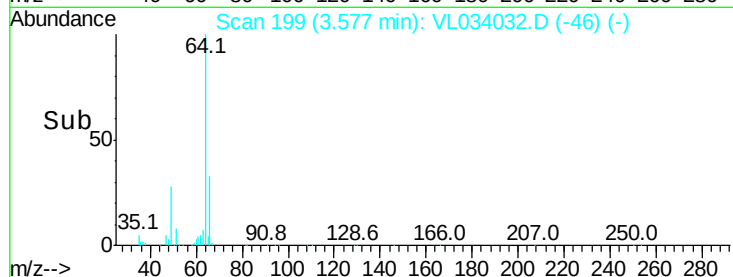
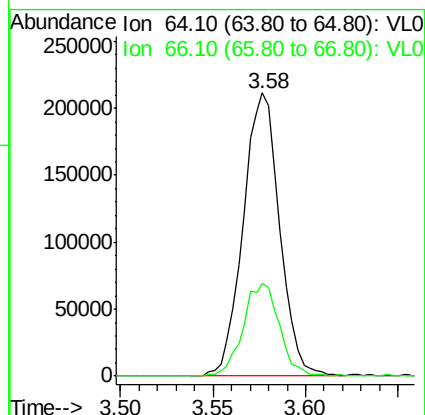
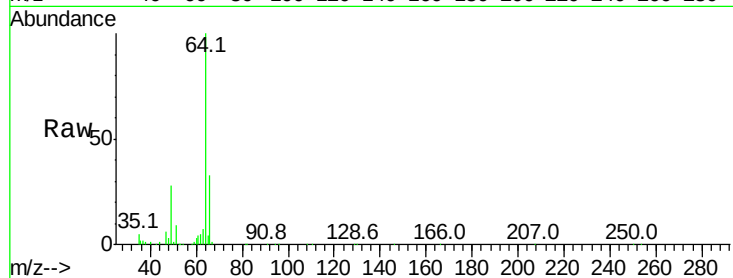
VL0711ABS02

Tgt Ion: 64 Resp: 288864

Ion Ratio Lower Upper

64 100

66 32.8 25.3 37.9



#8

Dichlorotetrafluoroethane

Concen: 8.450 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034032.D

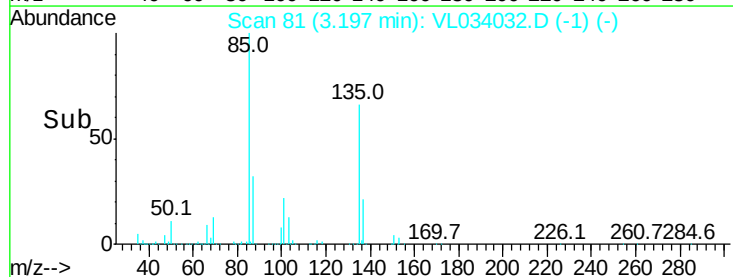
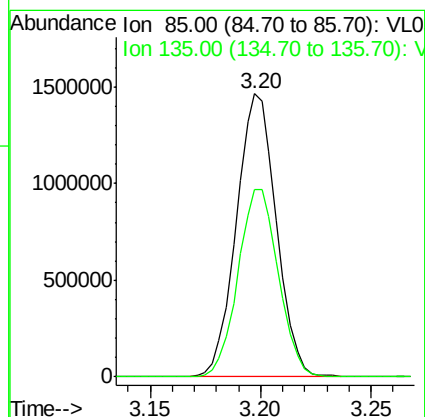
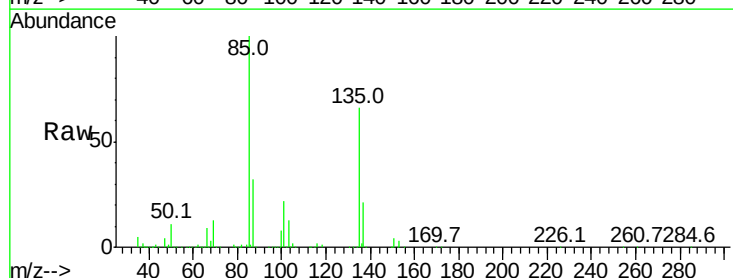
Acq: 12 Jul 2019 8:51

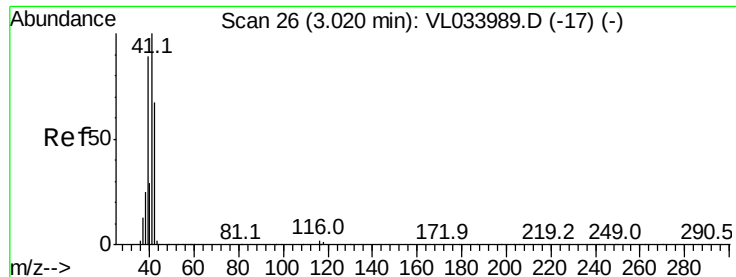
Tgt Ion: 85 Resp: 1834474

Ion Ratio Lower Upper

85 100

135 67.6 55.0 82.4





#9

Propene

Concen: 10.563 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

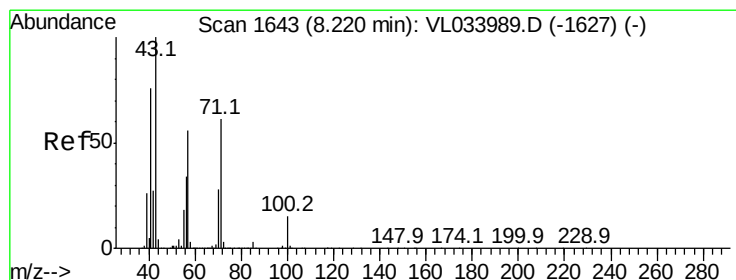
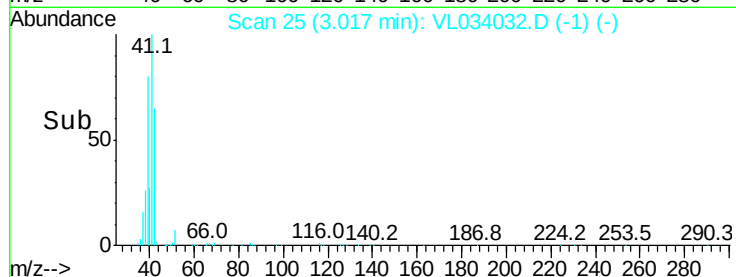
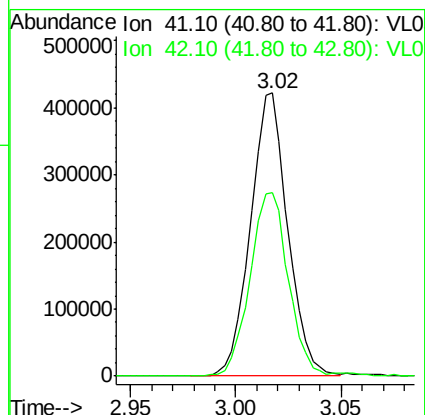
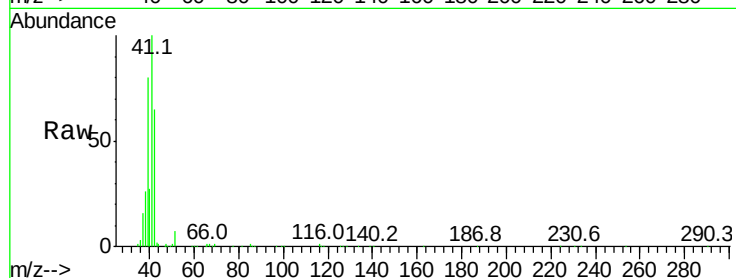
VL0711ABS02

Tgt Ion: 41 Resp: 517781

Ion Ratio Lower Upper

41 100

42 67.7 57.1 85.7



#10

Heptane

Concen: 11.953 ppbv

RT: 8.21 min Scan# 1639

Delta R.T. -0.01 min

Lab File: VL034032.D

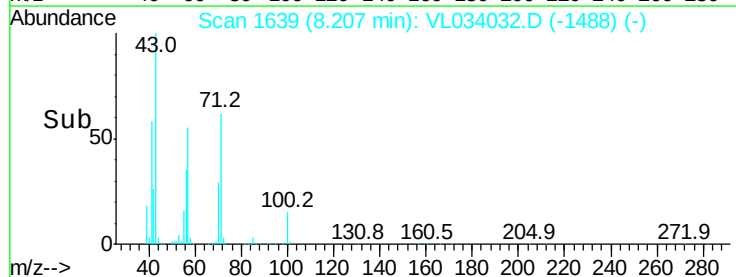
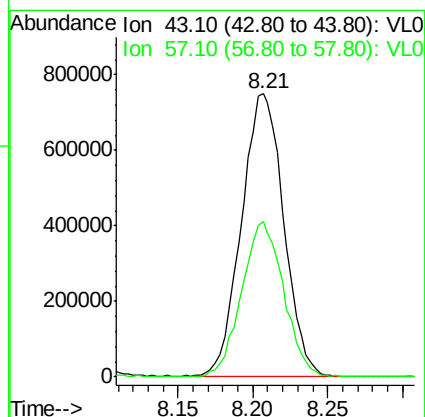
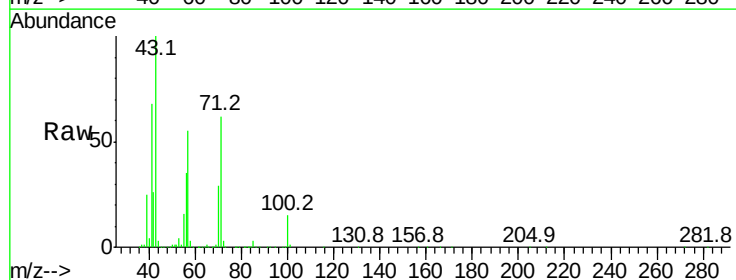
Acq: 12 Jul 2019 8:51

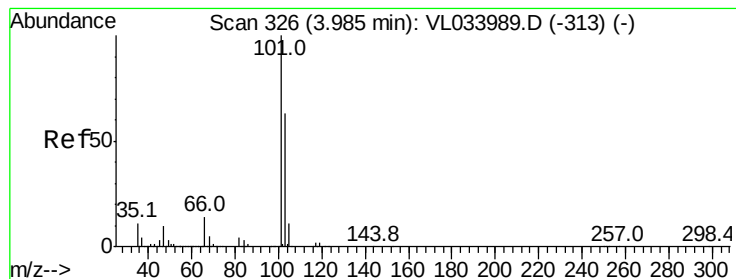
Tgt Ion: 43 Resp: 1467019

Ion Ratio Lower Upper

43 100

57 54.9 44.6 66.8





#11

Trichlorofluoromethane

Concen: 7.755 ppbv

RT: 3.98 min Scan# 323

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

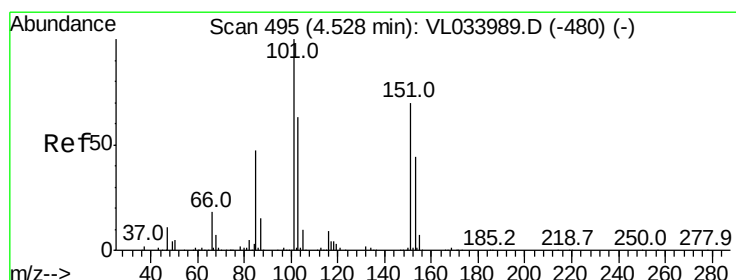
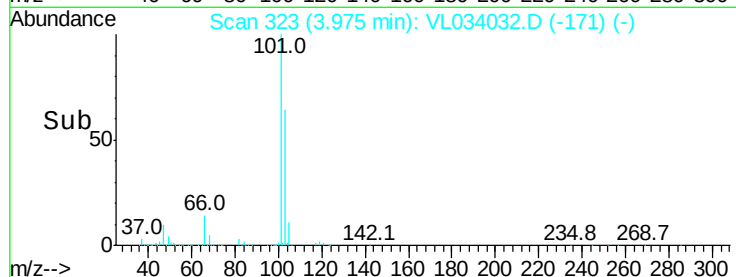
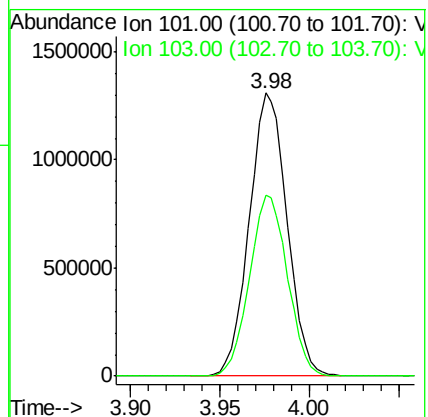
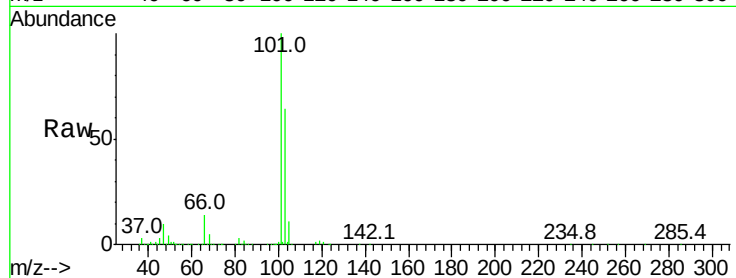
VL0711ABS02

Tgt Ion:101 Resp: 1941669

Ion Ratio Lower Upper

101 100

103 63.8 50.8 76.2



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.798 ppbv

RT: 4.52 min Scan# 493

Delta R.T. -0.01 min

Lab File: VL034032.D

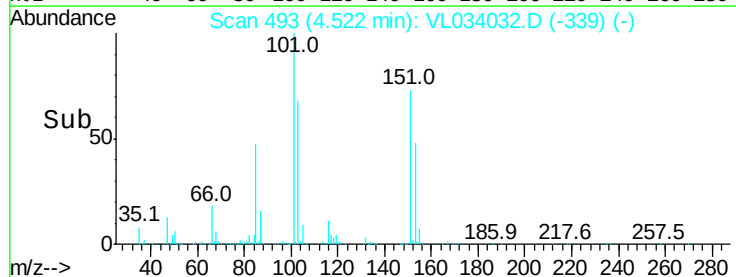
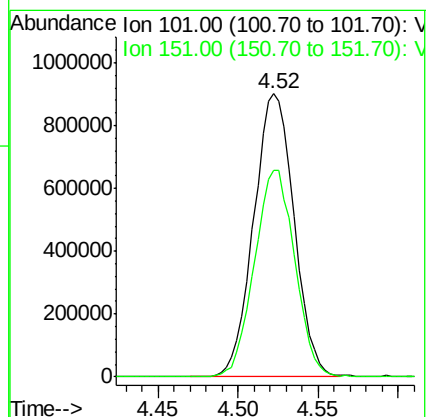
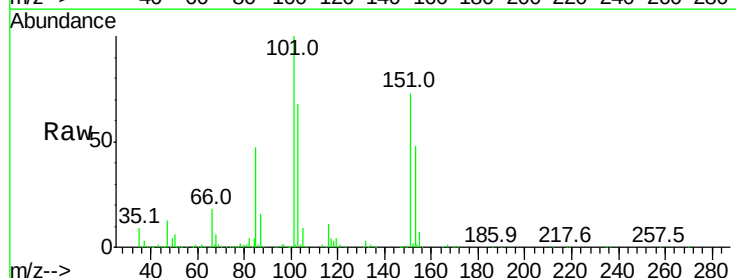
Acq: 12 Jul 2019 8:51

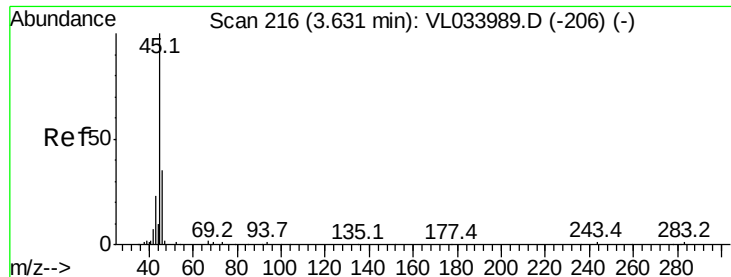
Tgt Ion:101 Resp: 1559351

Ion Ratio Lower Upper

101 100

151 73.5 59.0 88.4





#13

Ethanol

Concen: 11.945 ppbv

RT: 3.63 min Scan# 215

Delta R.T. -0.00 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

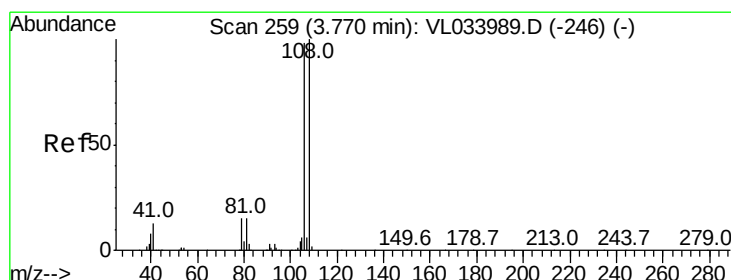
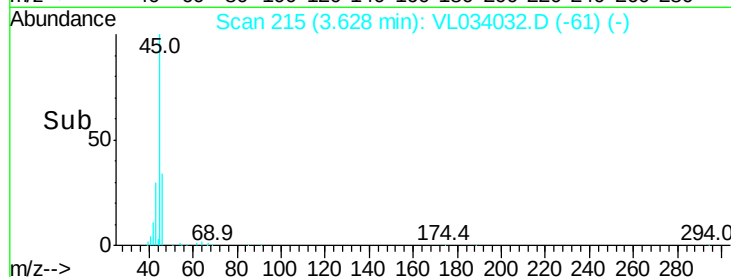
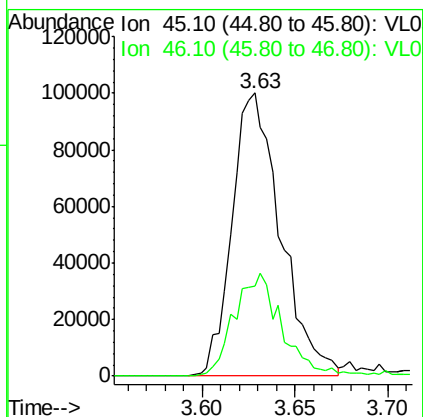
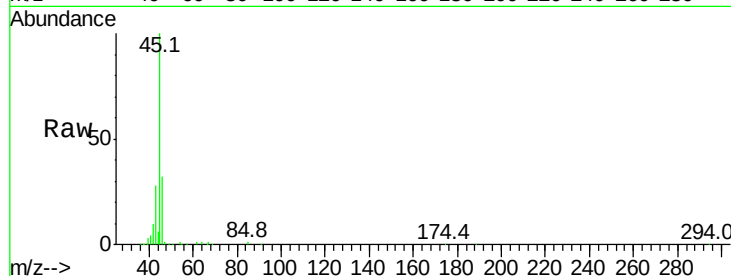
VL0711ABS02

Tgt Ion: 45 Resp: 181895

Ion Ratio Lower Upper

45 100

46 35.9 16.2 64.6



#14

Bromoethene

Concen: 9.234 ppbv

RT: 3.76 min Scan# 257

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

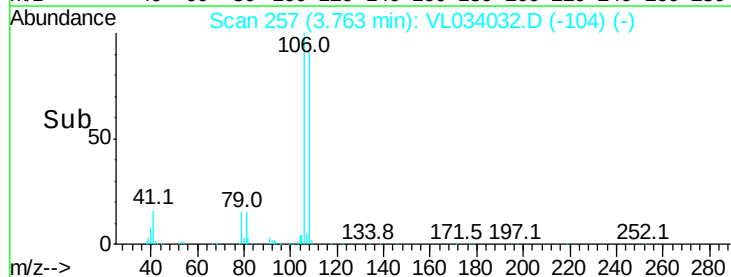
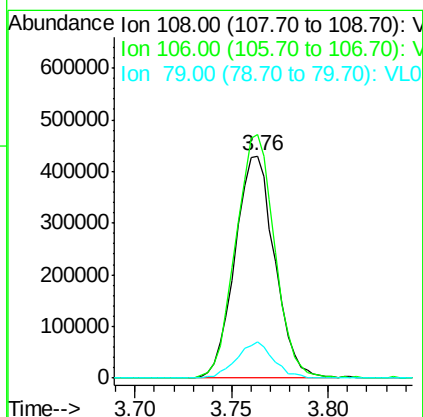
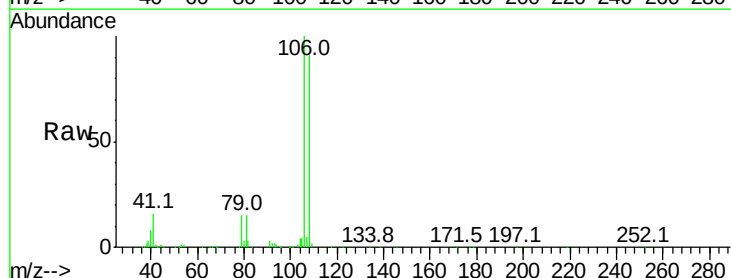
Tgt Ion: 108 Resp: 611157

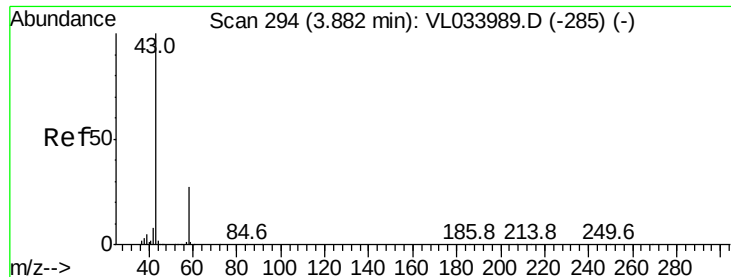
Ion Ratio Lower Upper

108 100

106 108.6 85.6 128.4

79 15.5 14.0 21.0





#15

Acetone

Concen: 7.937 ppbv

RT: 3.88 min Scan# 292

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

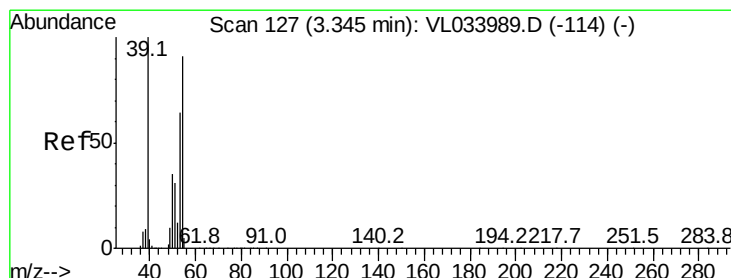
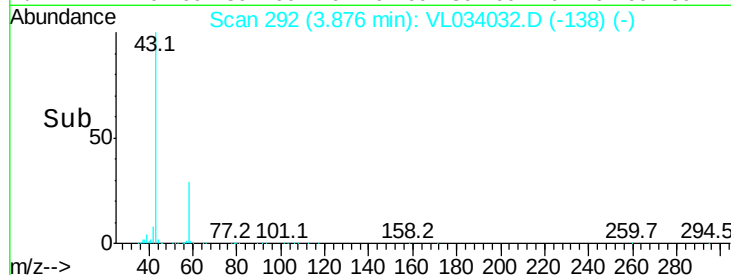
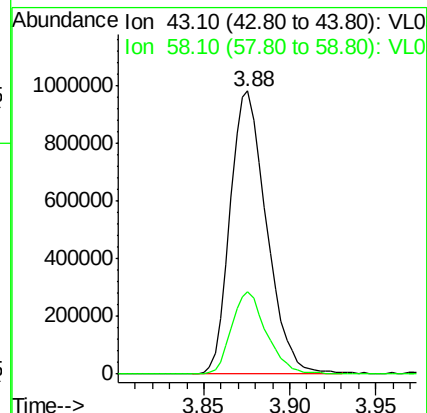
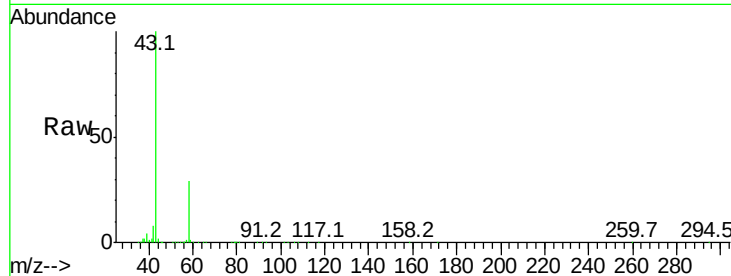
VL0711ABS02

Tgt Ion: 43 Resp: 1439875

Ion Ratio Lower Upper

43 100

58 28.2 21.4 32.0



#16

1,3-Butadiene

Concen: 9.976 ppbv

RT: 3.34 min Scan# 126

Delta R.T. -0.00 min

Lab File: VL034032.D

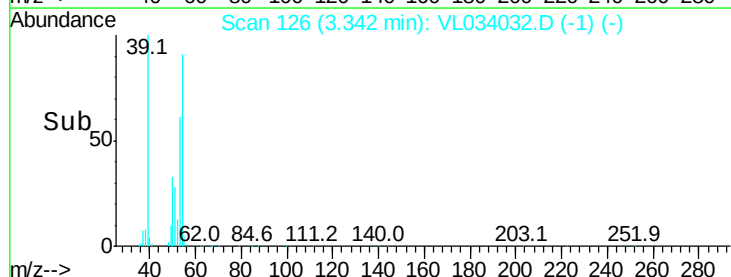
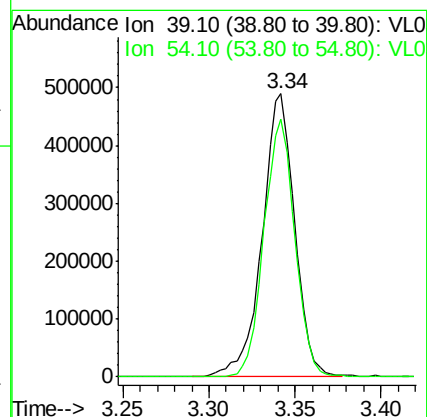
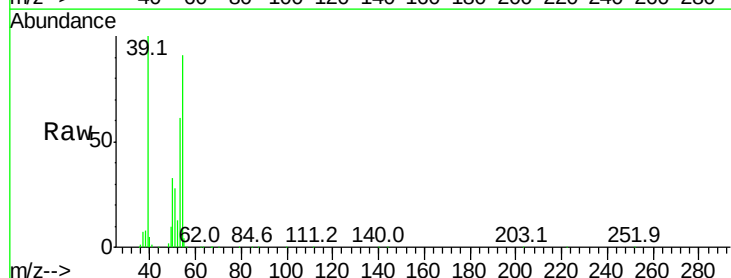
Acq: 12 Jul 2019 8:51

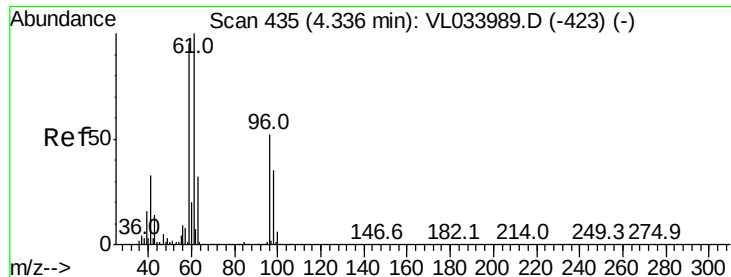
Tgt Ion: 39 Resp: 639076

Ion Ratio Lower Upper

39 100

54 87.1 71.4 107.2





#17

tert-Butyl alcohol

Concen: 11.221 ppbv

RT: 4.33 min Scan# 433

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

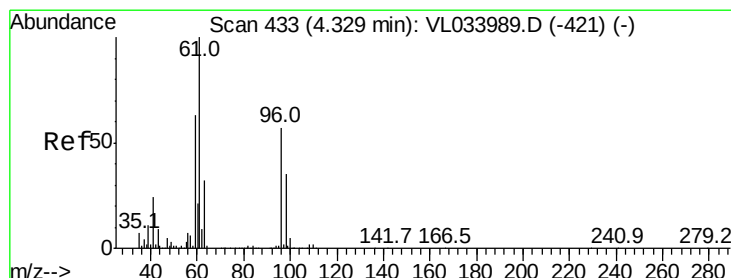
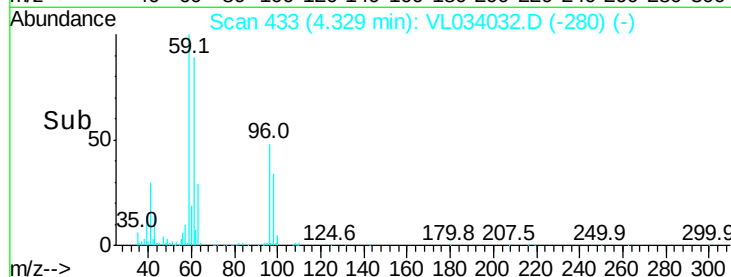
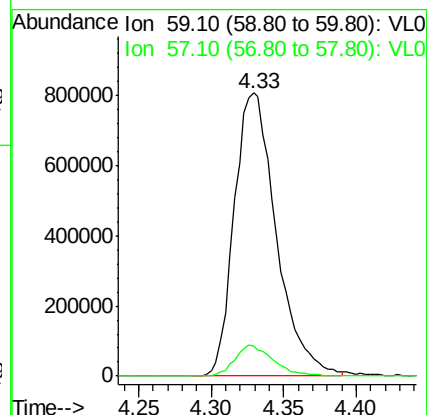
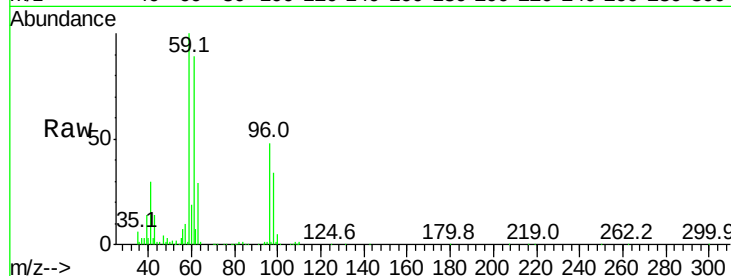
VL0711ABS02

Tgt Ion: 59 Resp: 1622969

Ion Ratio Lower Upper

59 100

57 10.1 8.2 12.2



#18

1,1-Dichloroethene

Concen: 9.281 ppbv

RT: 4.32 min Scan# 431

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

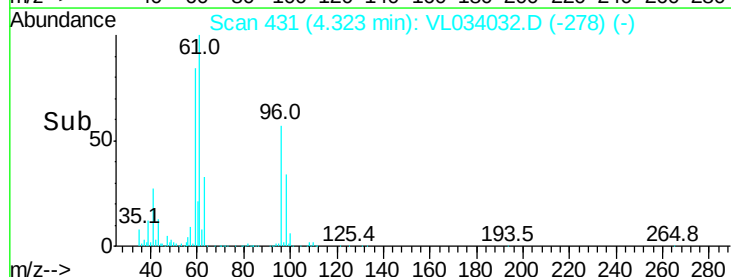
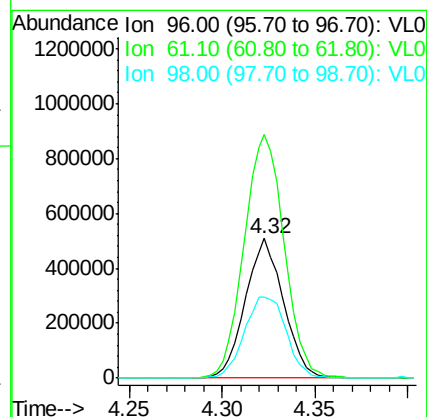
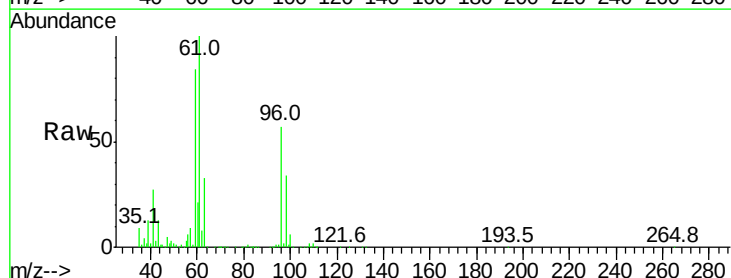
Tgt Ion: 96 Resp: 732575

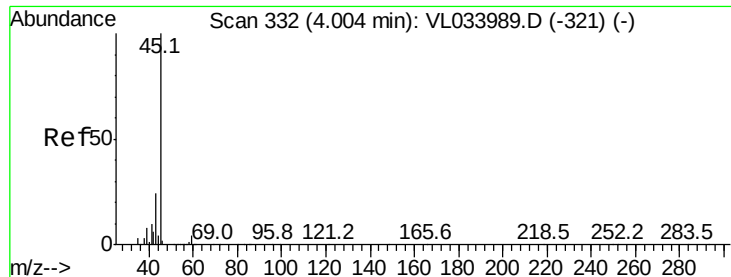
Ion Ratio Lower Upper

96 100

61 174.0 139.4 209.0

98 58.3 49.4 74.0





#19

Isopropyl Alcohol

Concen: 9.620 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

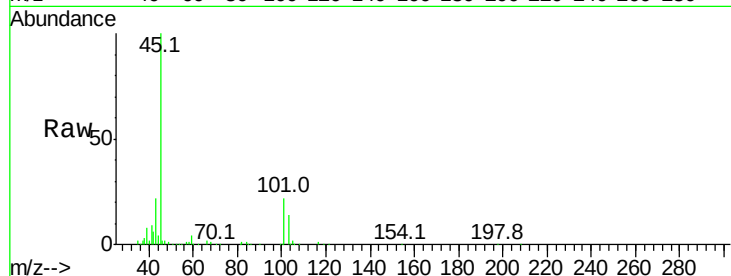
VL0711ABS02

Tgt Ion: 45 Resp: 1171537

Ion Ratio Lower Upper

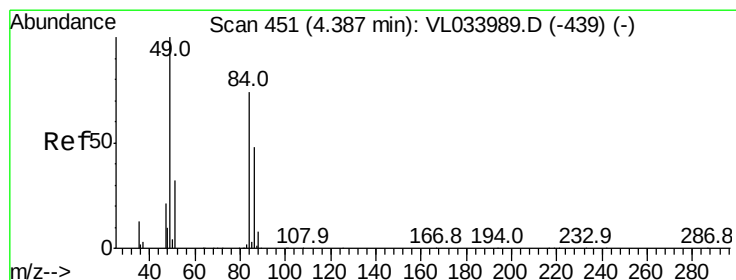
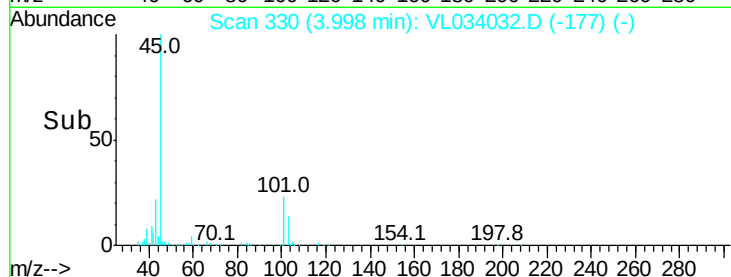
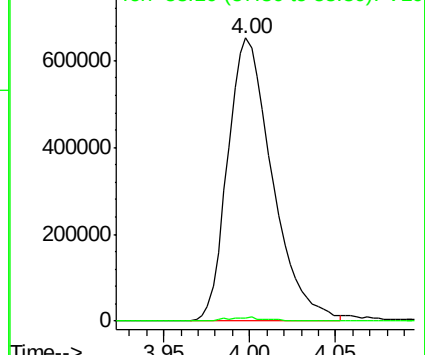
45 100

58 1.6 1.7 2.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 7.911 ppbv

RT: 4.38 min Scan# 449

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion: 84 Resp: 625915

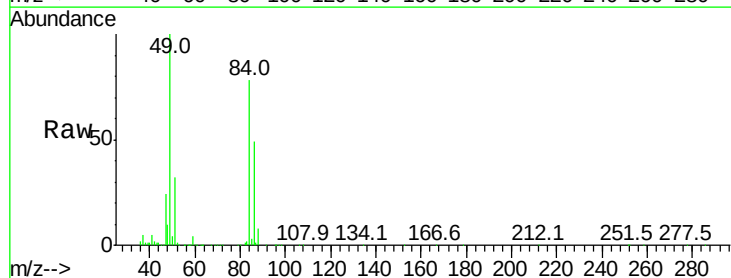
Ion Ratio Lower Upper

84 100

49 128.4 107.6 161.4

51 40.0 35.0 52.6

86 63.3 52.1 78.1

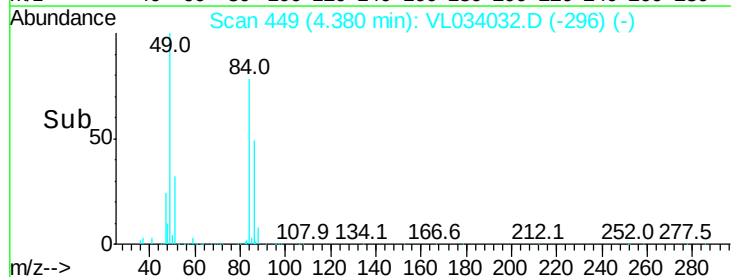
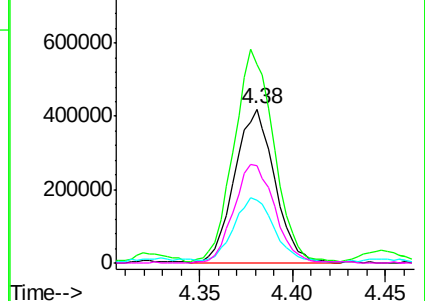


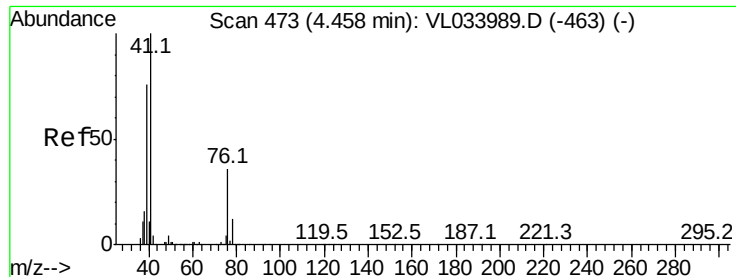
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 9.783 ppbv

RT: 4.45 min Scan# 470

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

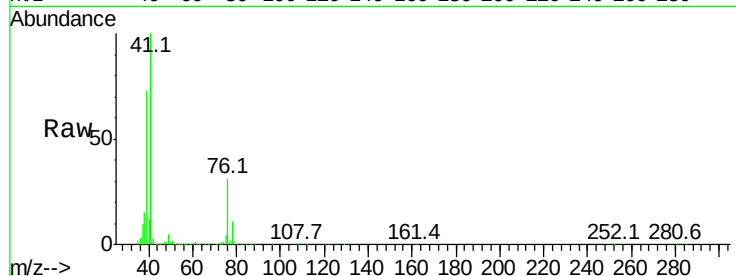
Tgt Ion: 41 Resp: 1106668

Ion Ratio Lower Upper

41 100

76 32.5 26.8 40.2

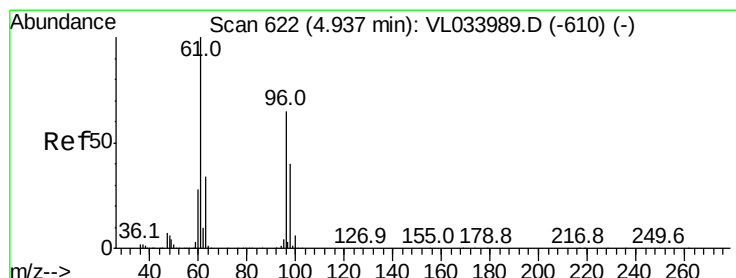
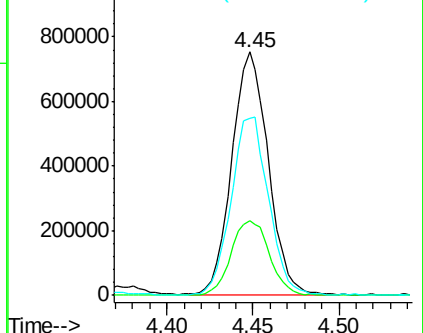
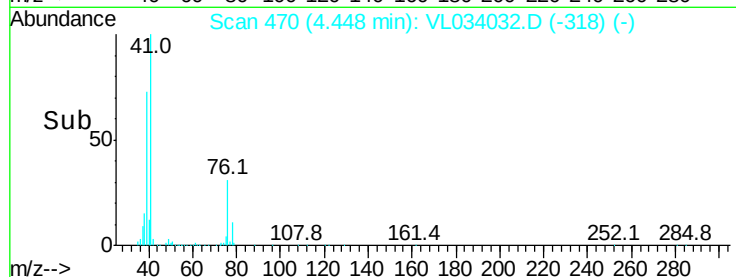
39 75.7 63.1 94.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 8.844 ppbv

RT: 4.93 min Scan# 620

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

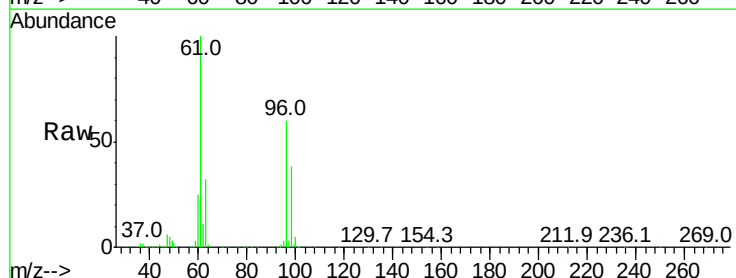
Tgt Ion: 96 Resp: 665206

Ion Ratio Lower Upper

96 100

61 167.2 122.9 184.3

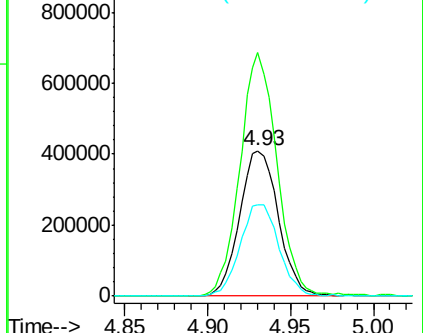
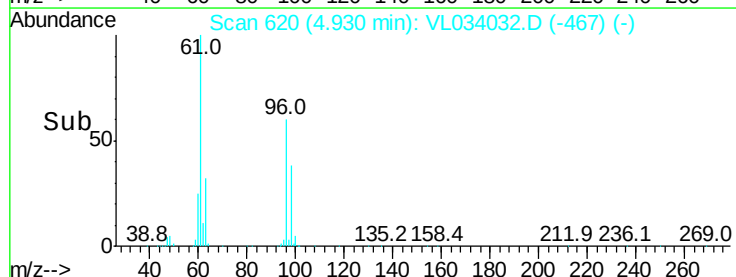
98 62.9 49.6 74.4

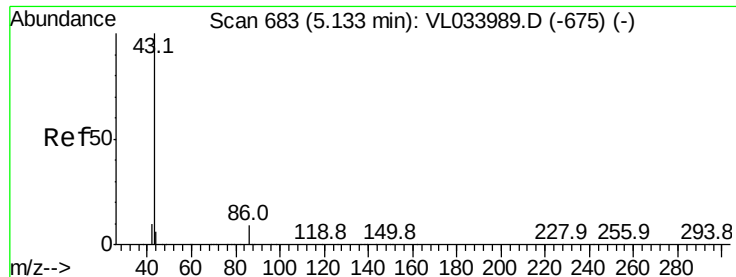


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 10.962 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

Tgt Ion: 43 Resp: 1984907

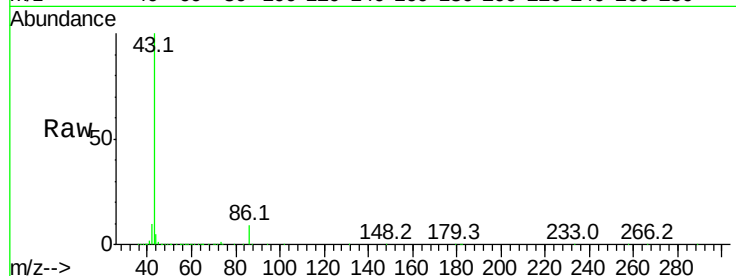
Ion Ratio Lower Upper

43 100

86 8.9 6.6 9.8

42 10.3 8.3 12.5

44 4.6 4.3 6.5

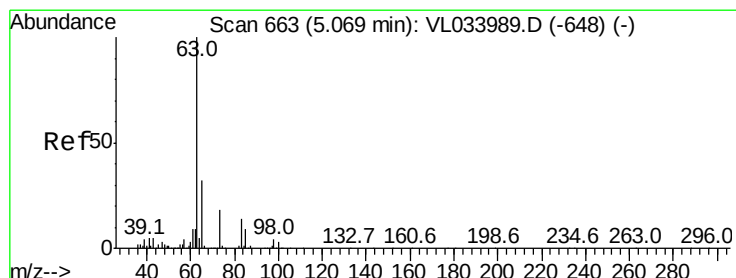
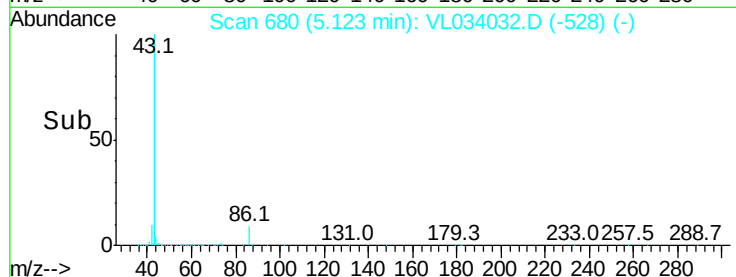
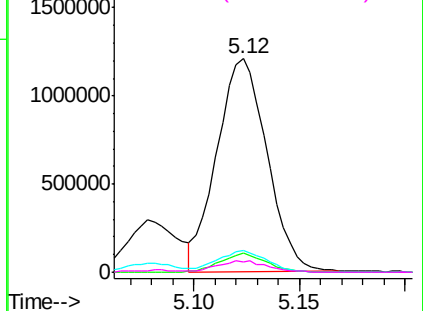


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.776 ppbv

RT: 5.06 min Scan# 661

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

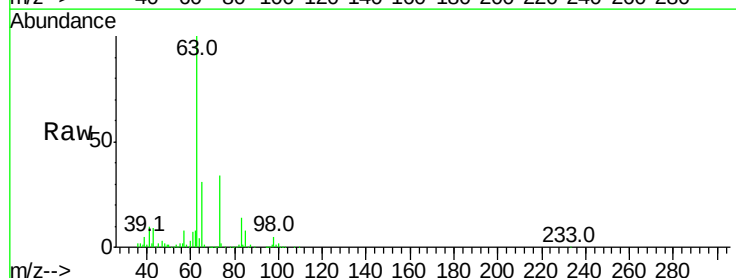
Tgt Ion: 63 Resp: 1568799

Ion Ratio Lower Upper

63 100

98 5.0 2.2 6.6

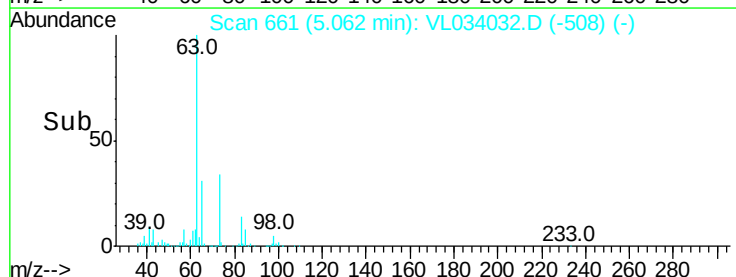
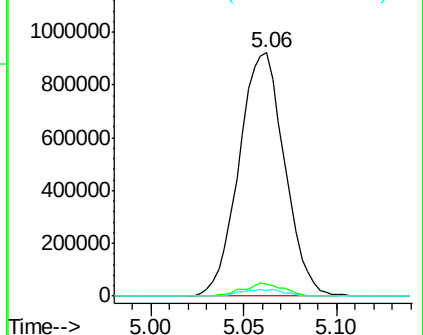
100 2.3 1.4 4.2

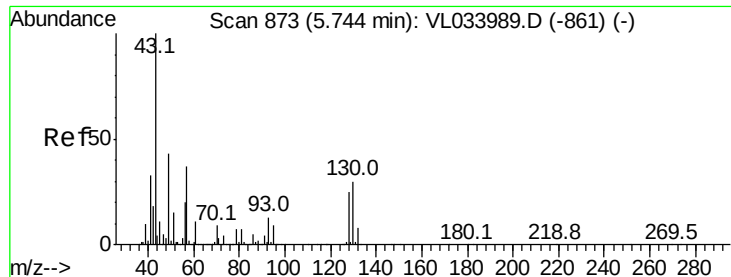


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



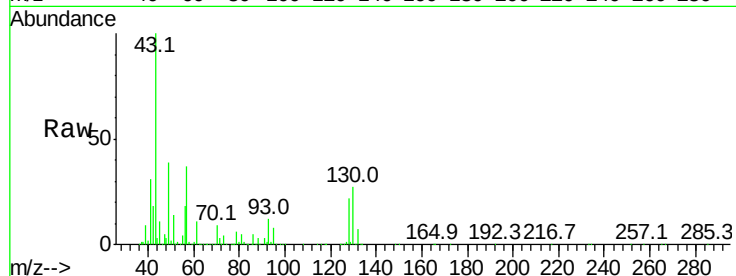


#25
Ethyl Acetate
Concen: 10.720 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

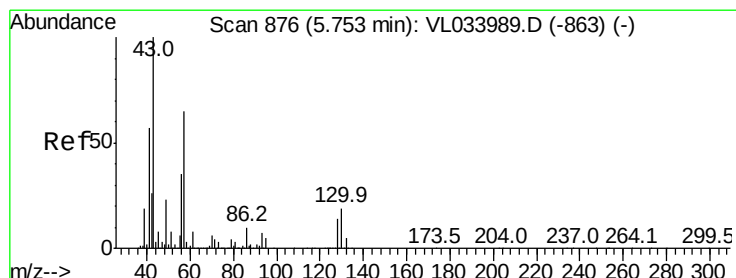
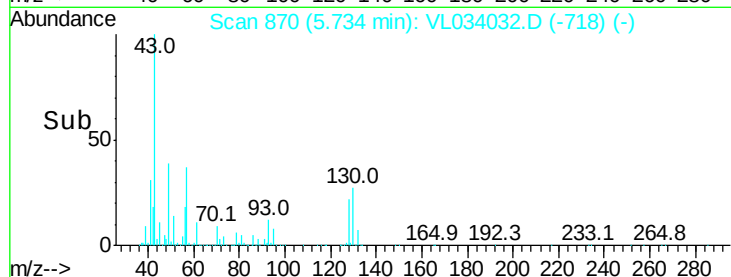
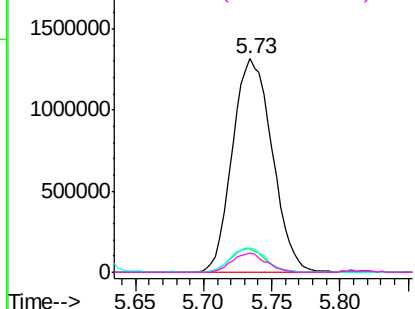
Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

Tgt Ion: 43 Resp: 2659943

Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.1	12.1
61	9.9	8.1	12.1
70	7.9	6.3	9.5



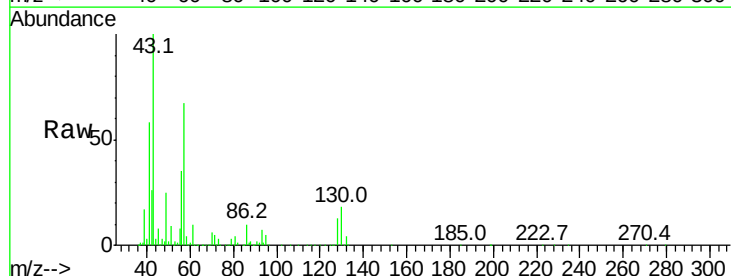
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



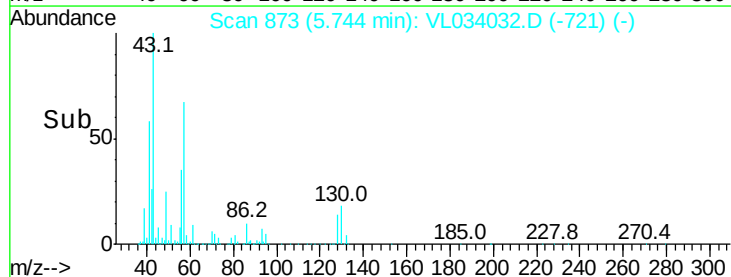
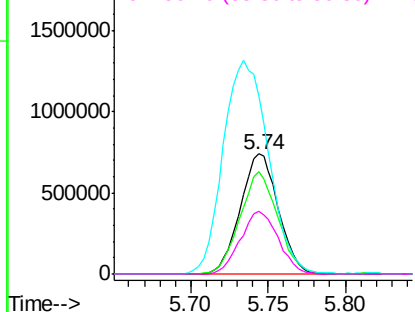
#26
Hexane
Concen: 11.135 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

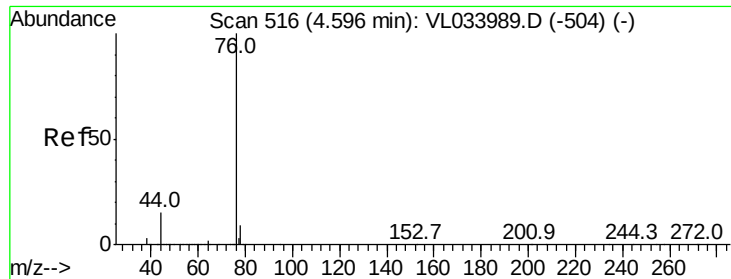
Tgt Ion: 57 Resp: 1264369

Ion	Ratio	Lower	Upper
57	100		
41	85.6	70.6	105.8
43	212.0	177.6	266.4
56	52.1	42.6	64.0



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: 9.487 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

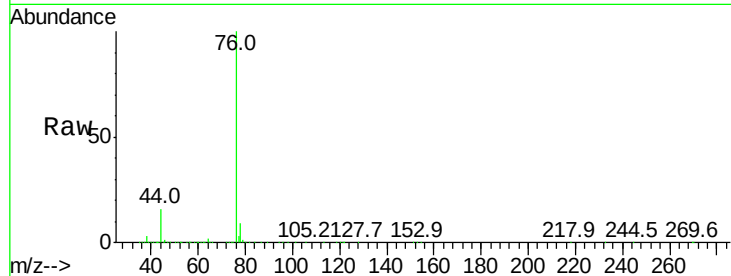
Tgt Ion: 76 Resp: 1831259

Ion Ratio Lower Upper

76 100

44 16.1 12.6 18.8

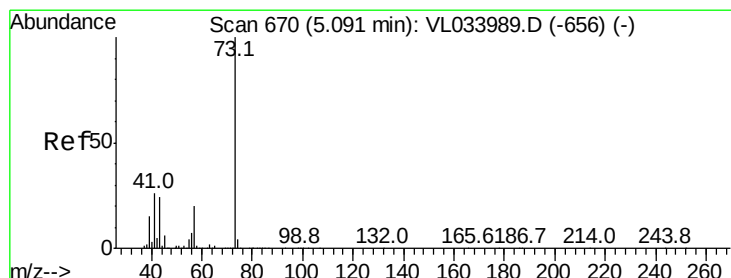
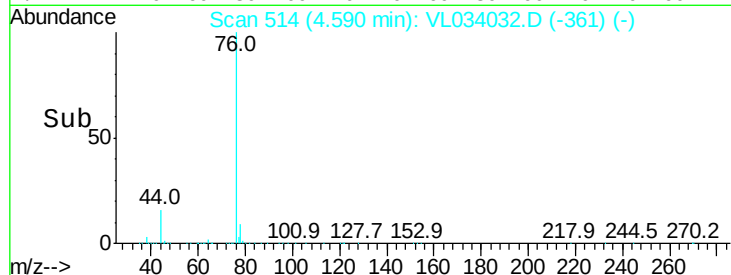
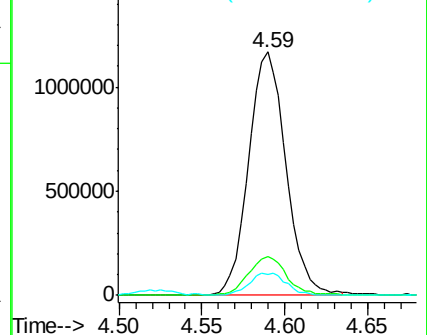
78 8.9 7.2 10.8



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: 11.061 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL034032.D

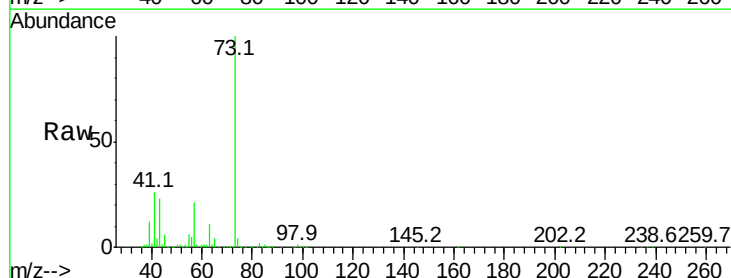
Acq: 12 Jul 2019 8:51

Tgt Ion: 73 Resp: 2127048

Ion Ratio Lower Upper

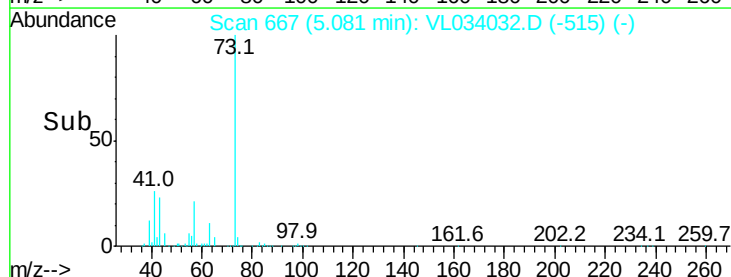
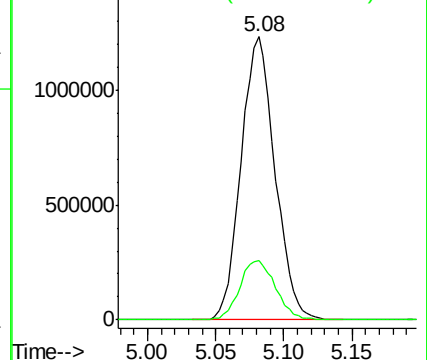
73 100

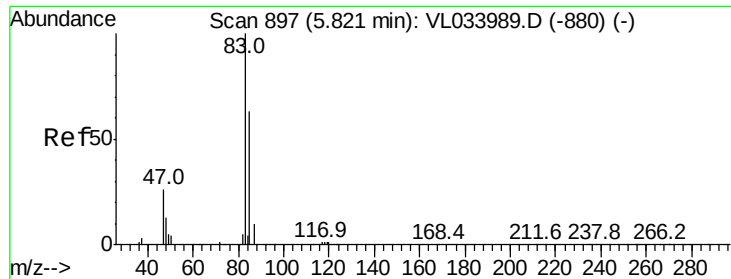
57 22.2 16.9 25.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

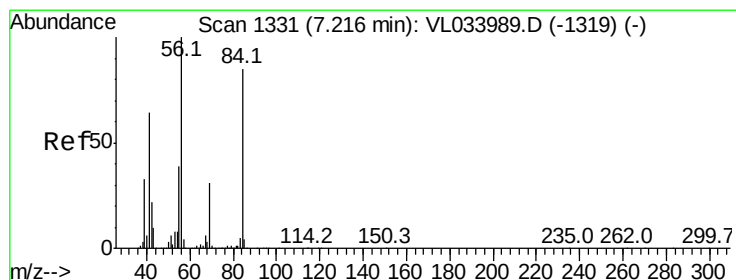
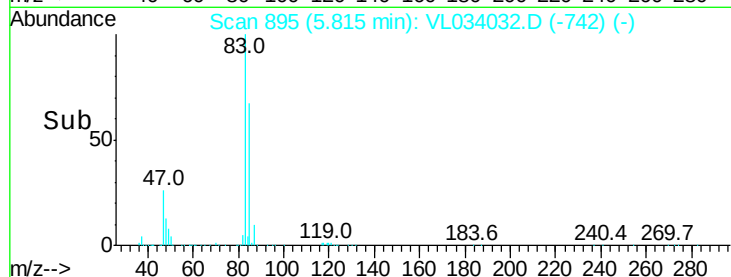
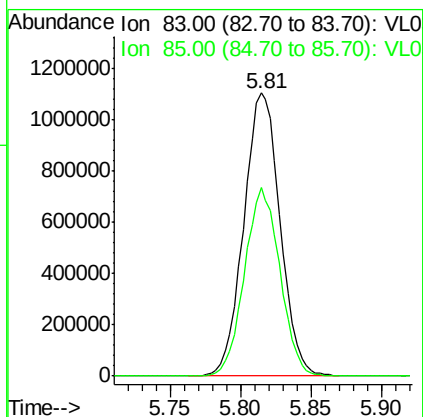
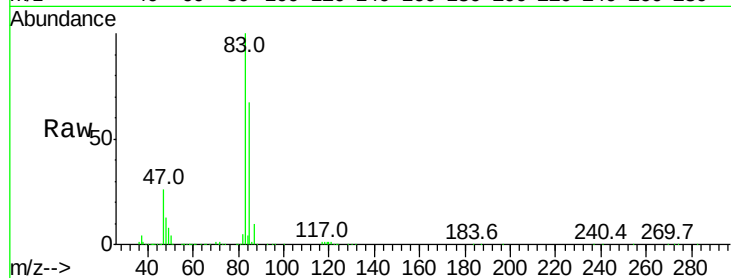




#29
Chloroform
Concen: 9.345 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

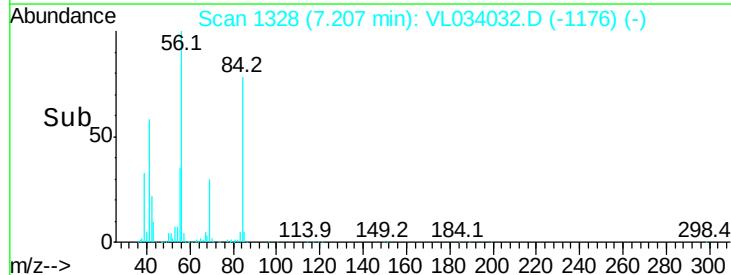
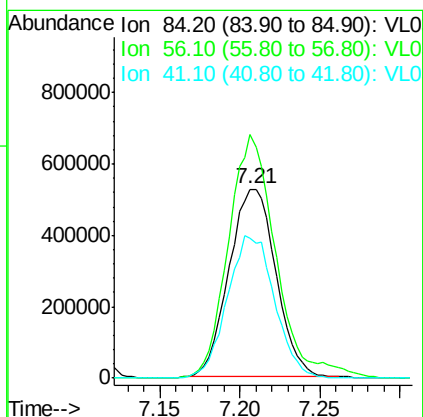
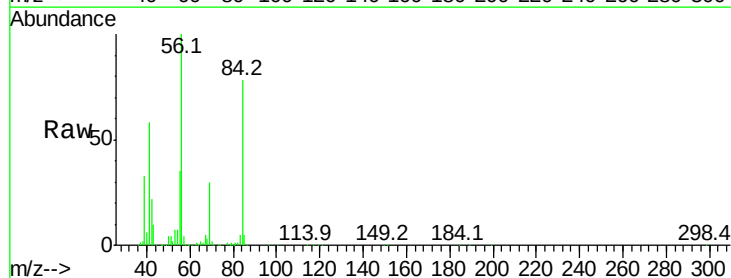
Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

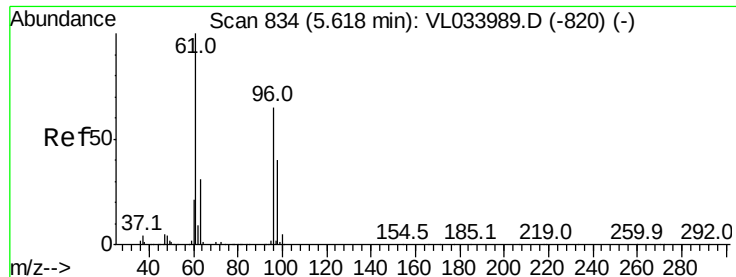
Tgt Ion: 83 Resp: 1994176
Ion Ratio Lower Upper
83 100
85 66.6 50.6 75.8



#30
Cyclohexane
Concen: 12.026 ppbv
RT: 7.21 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 84 Resp: 1054565
Ion Ratio Lower Upper
84 100
56 131.5 103.7 155.5
41 76.3 62.6 94.0



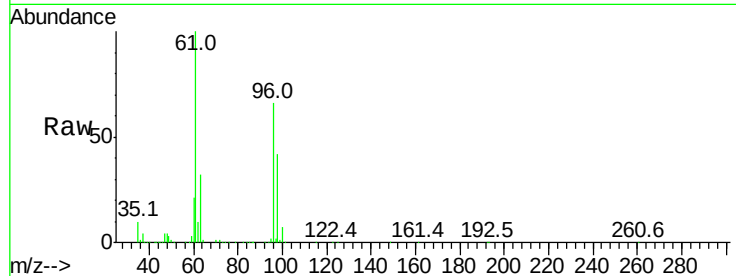


#31

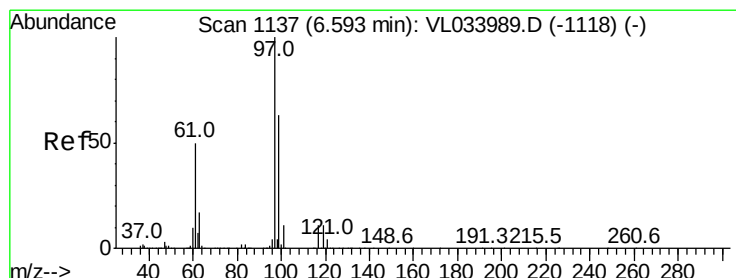
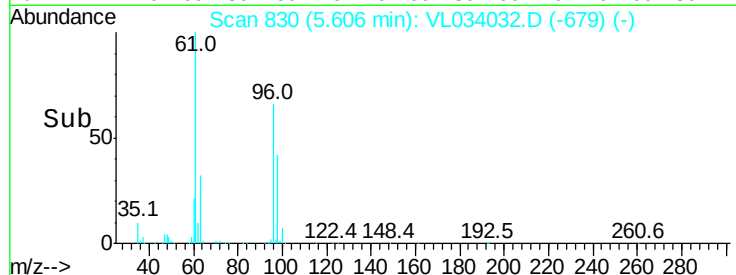
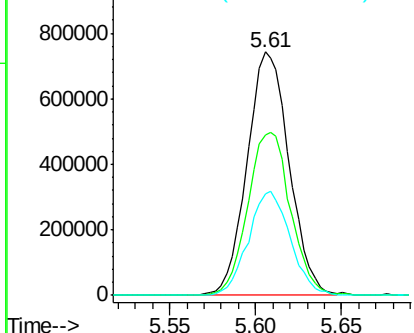
cis-1,2-Dichloroethene
 Concen: 11.465 ppbv
 RT: 5.61 min Scan# 830
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tgt Ion: 61 Resp: 1257719
 Ion Ratio Lower Upper
 61 100
 96 65.7 51.8 77.6
 98 41.7 32.1 48.1



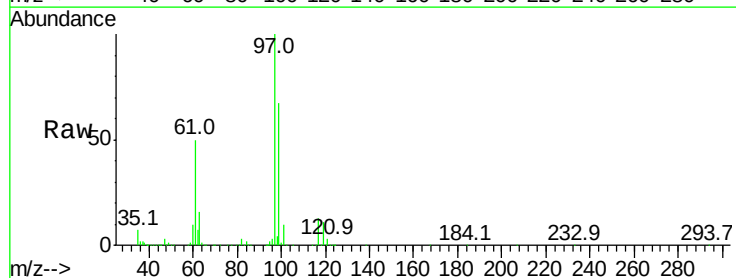
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



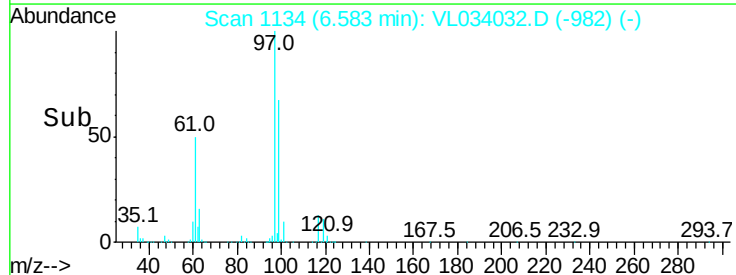
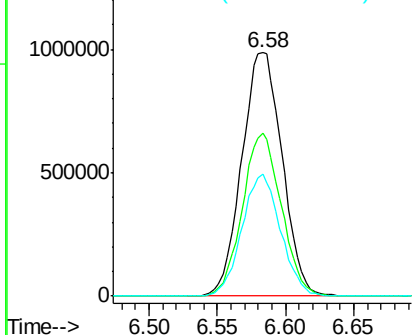
#32

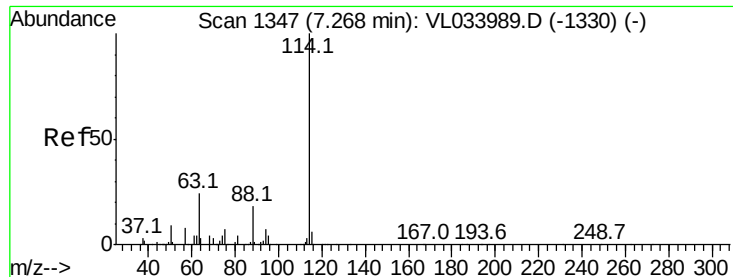
1,1,1-Trichloroethane
 Concen: 9.381 ppbv
 RT: 6.58 min Scan# 1134
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 97 Resp: 2029011
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.9 77.9
 61 47.9 39.8 59.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

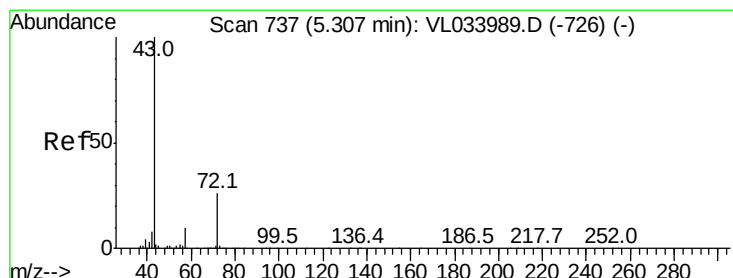
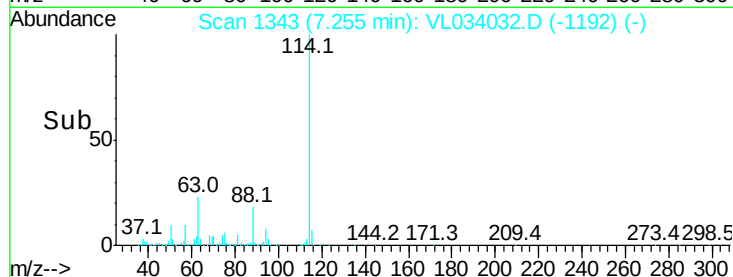
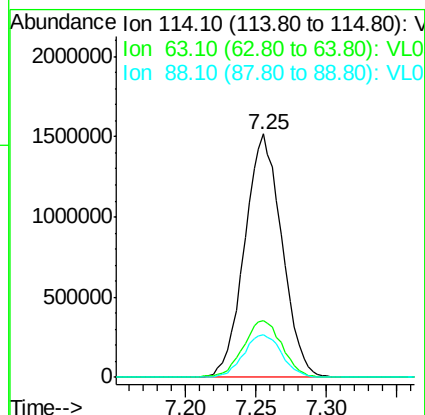
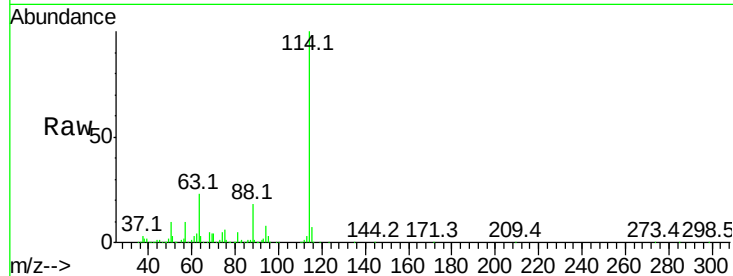




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

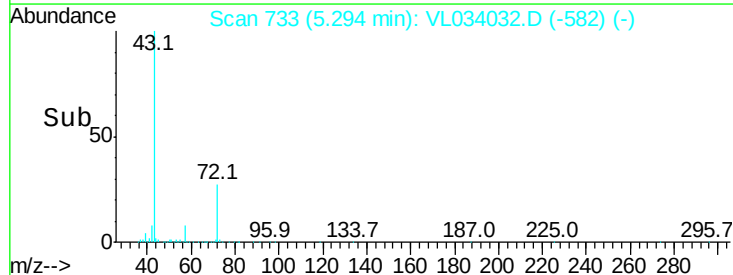
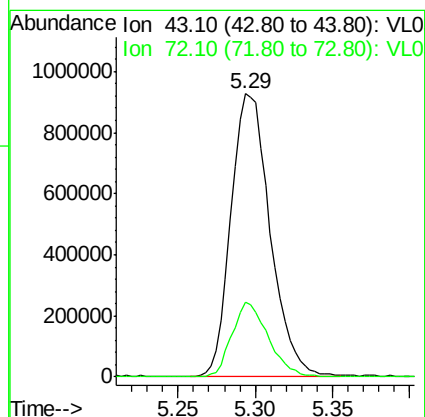
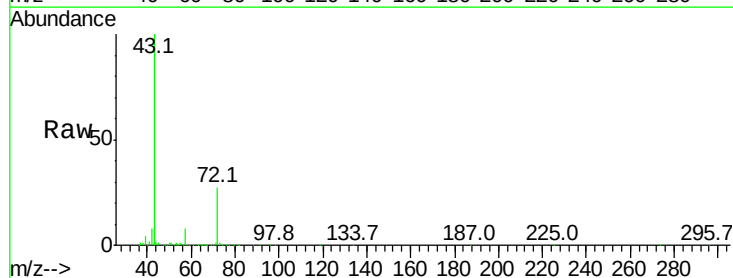
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

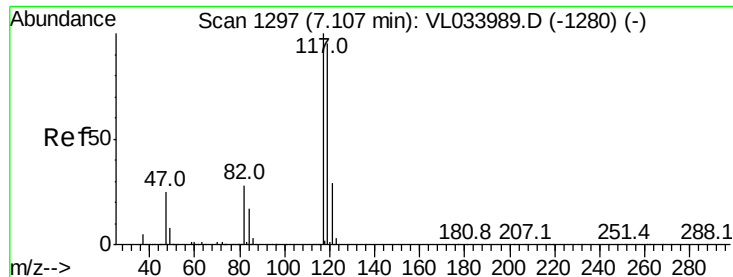
Tgt Ion:114 Resp: 2808681
 Ion Ratio Lower Upper
 114 100
 63 24.6 20.2 30.2
 88 17.9 14.1 21.1



#34
 2-Butanone
 Concen: 10.925 ppbv
 RT: 5.29 min Scan# 733
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 43 Resp: 1623949
 Ion Ratio Lower Upper
 43 100
 72 24.8 19.9 29.9





#35

Carbon Tetrachloride

Concen: 9.381 ppbv

RT: 7.09 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

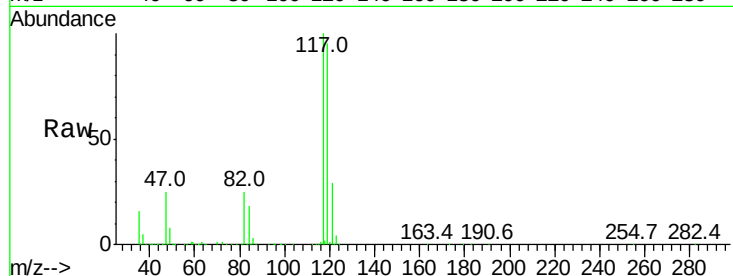
Tgt Ion: 117 Resp: 2085841

Ion Ratio Lower Upper

117 100

119 95.4 75.8 113.6

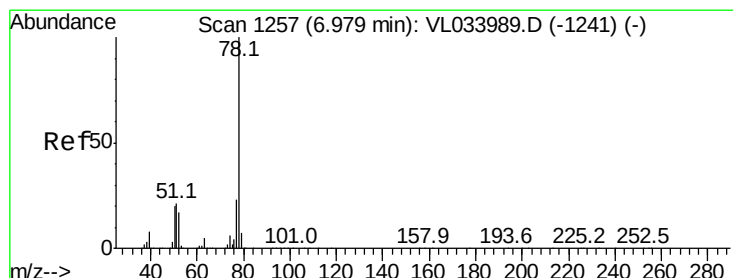
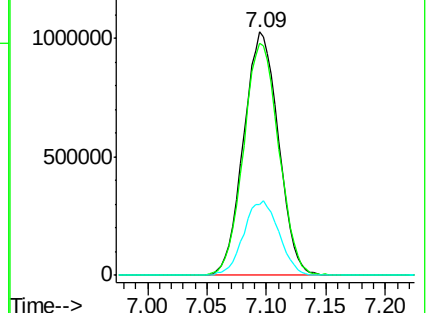
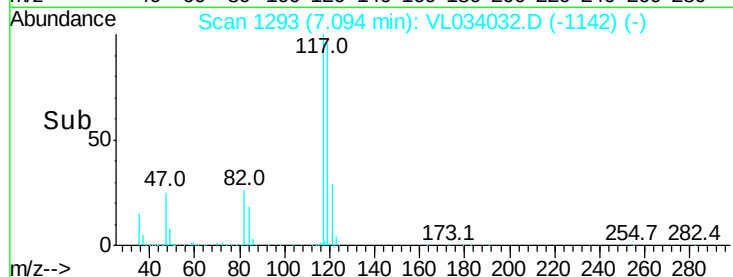
121 29.0 23.4 35.2



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: 11.560 ppbv

RT: 6.97 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

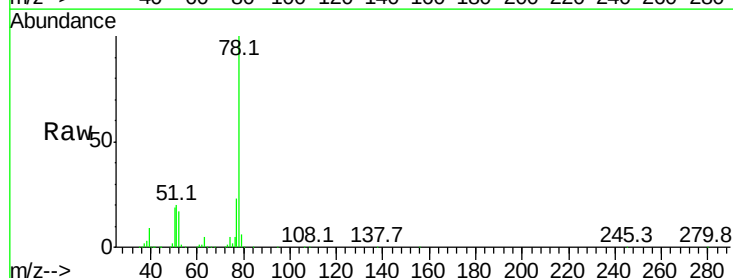
Tgt Ion: 78 Resp: 2540652

Ion Ratio Lower Upper

78 100

77 23.0 18.7 28.1

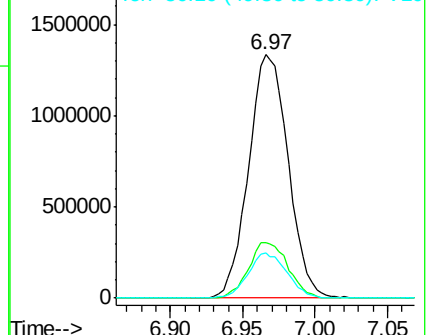
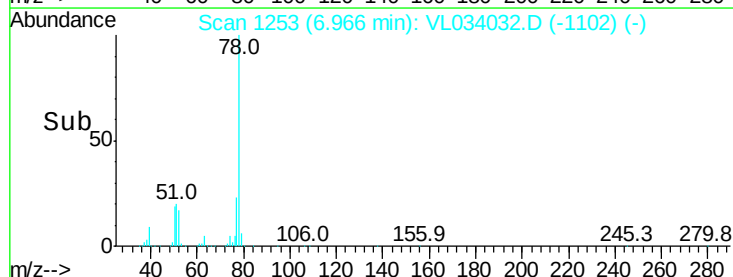
50 18.8 16.2 24.2

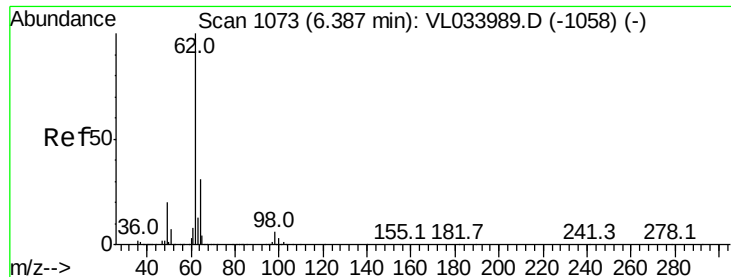


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

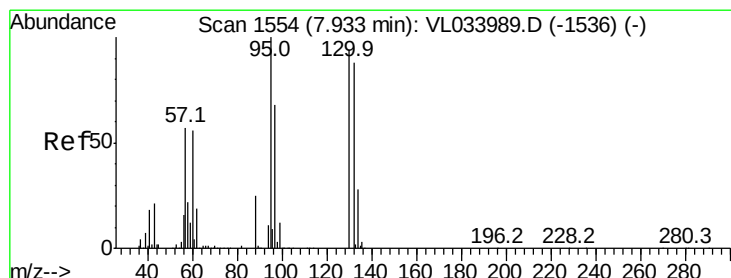
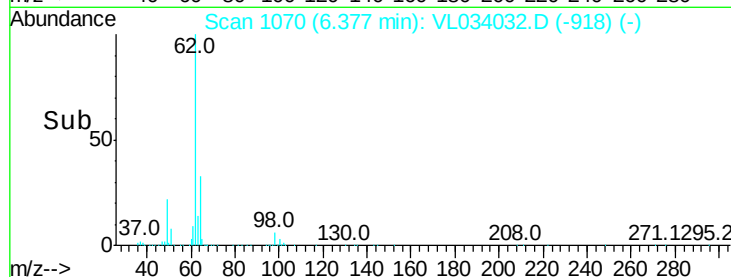
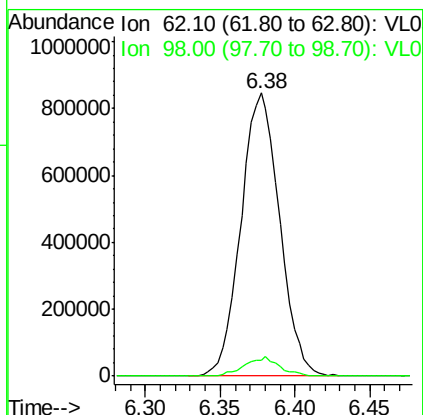
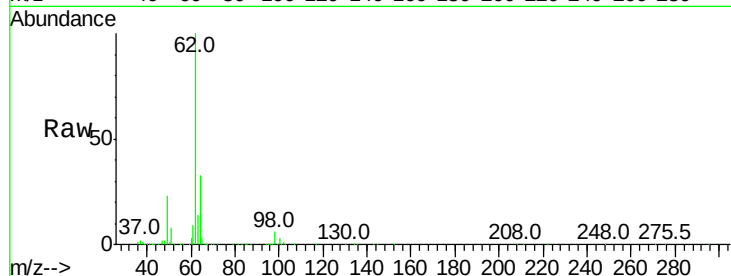




#37
 1,2-Dichloroethane
 Concen: 9.409 ppbv
 RT: 6.38 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

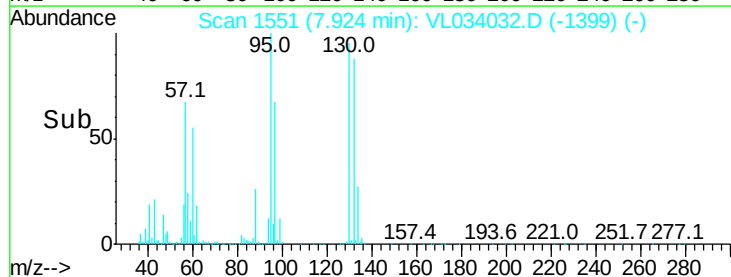
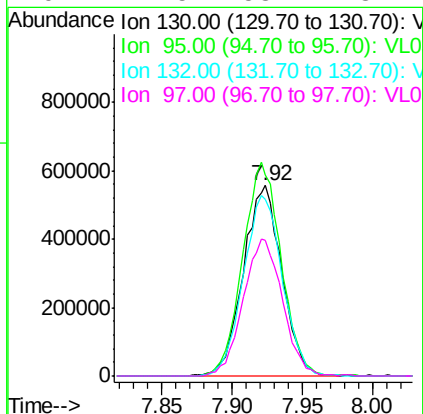
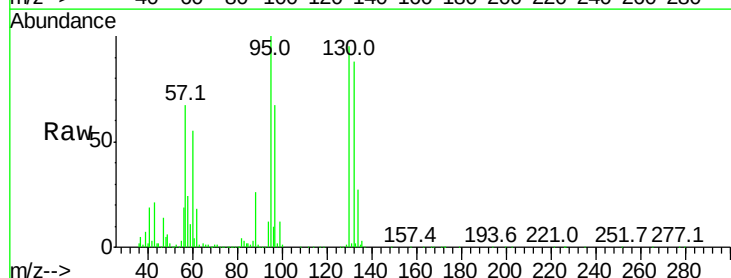
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

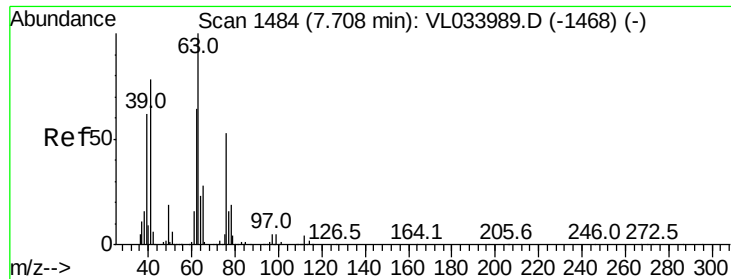
Tgt Ion: 62 Resp: 1523389
 Ion Ratio Lower Upper
 62 100
 98 6.1 4.4 6.6



#38
 Trichloroethene
 Concen: 10.764 ppbv
 RT: 7.92 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 130 Resp: 1052564
 Ion Ratio Lower Upper
 130 100
 95 105.9 85.5 128.3
 132 92.8 75.1 112.7
 97 71.5 58.1 87.1





#39

1,2-Dichloropropane

Concen: 11.604 ppbv

RT: 7.70 min Scan# 1480

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

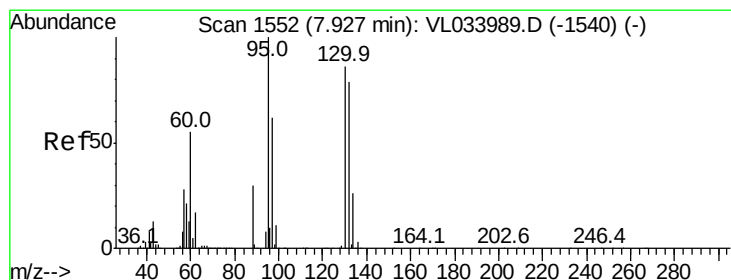
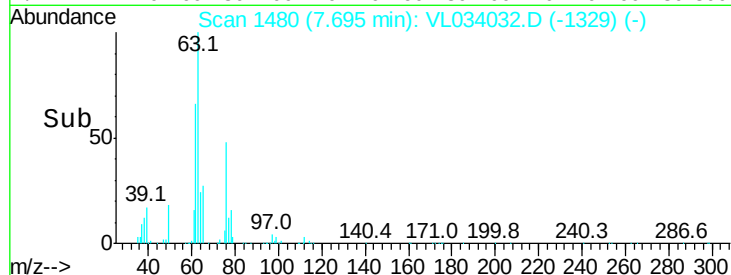
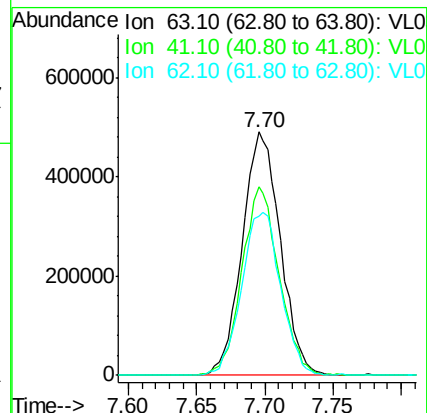
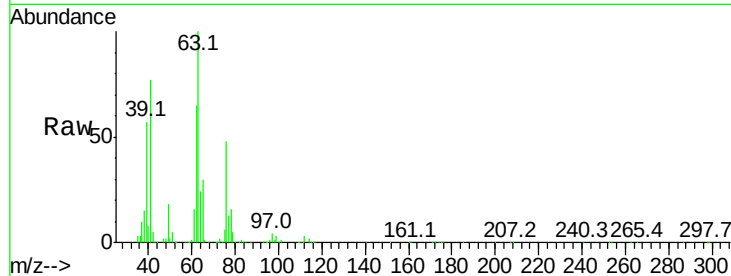
Tgt Ion: 63 Resp: 948271

Ion Ratio Lower Upper

63 100

41 77.2 62.3 93.5

62 65.4 51.4 77.2



#40

1,4-Dioxane

Concen: 10.120 ppbv

RT: 7.91 min Scan# 1548

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion: 88 Resp: 381818

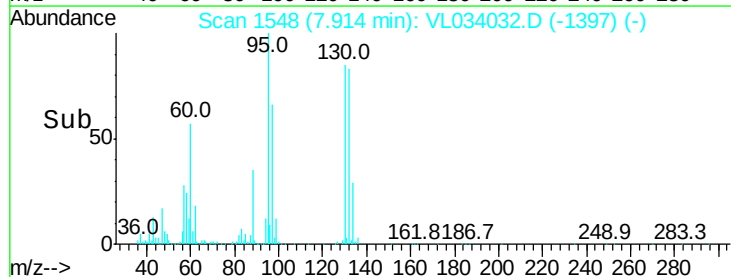
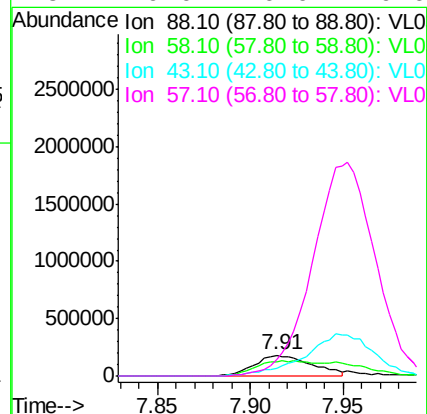
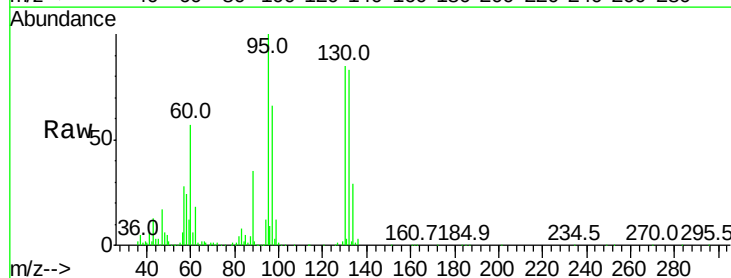
Ion Ratio Lower Upper

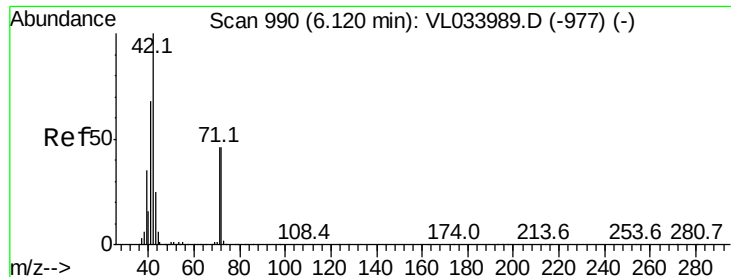
88 100

58 132.6 99.1 148.7

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 12.490 ppbv

RT: 6.11 min Scan# 987

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

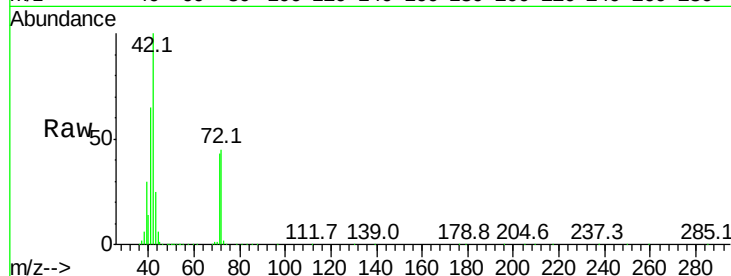
Tgt Ion: 42 Resp: 910545

Ion Ratio Lower Upper

42 100

72 45.7 37.3 55.9

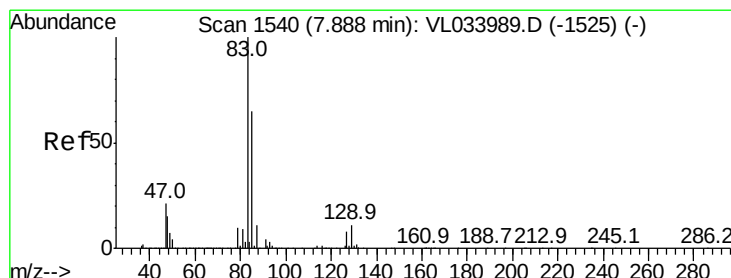
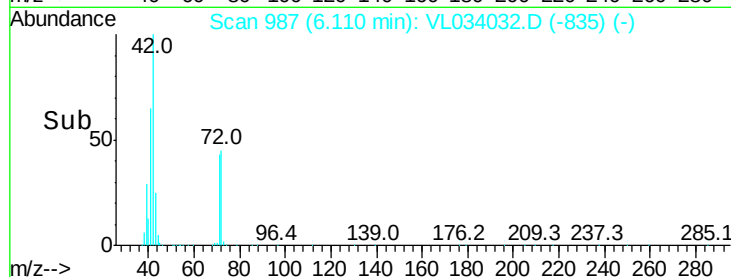
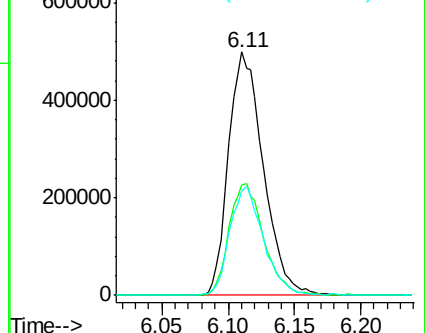
71 43.3 36.2 54.2



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: 10.461 ppbv

RT: 7.88 min Scan# 1537

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

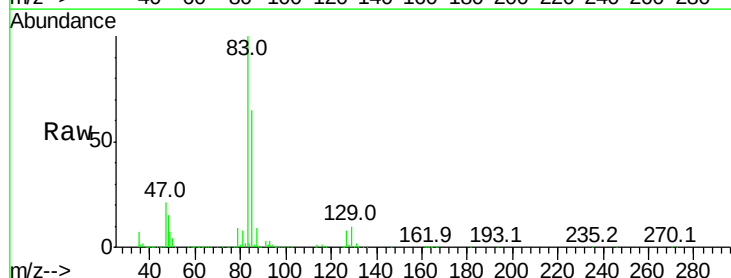
Tgt Ion: 83 Resp: 2272528

Ion Ratio Lower Upper

83 100

85 65.2 51.8 77.8

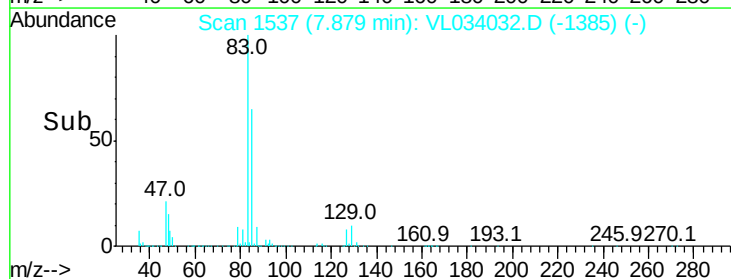
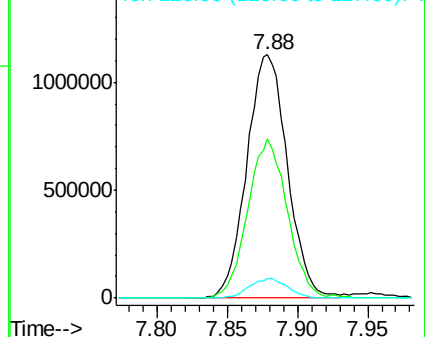
127 8.0 6.5 9.7

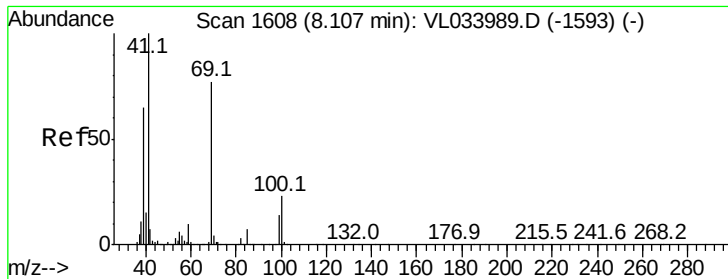


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

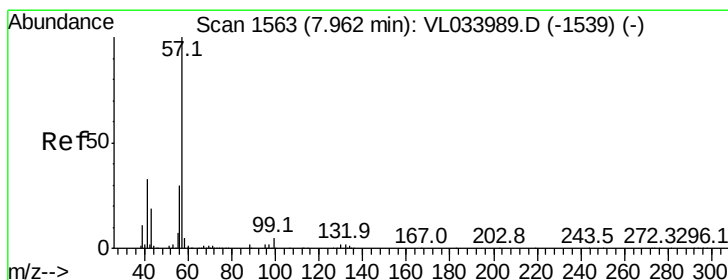
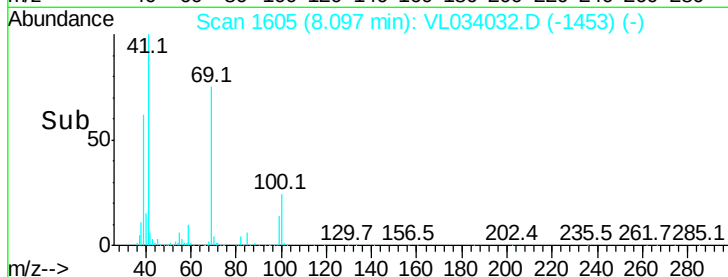
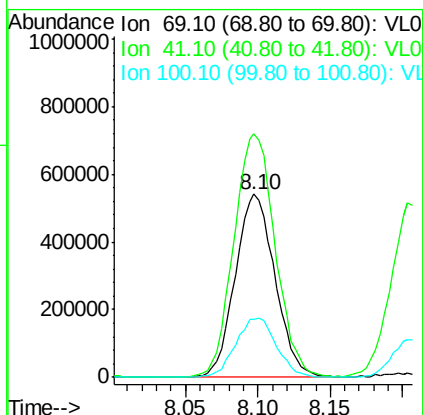
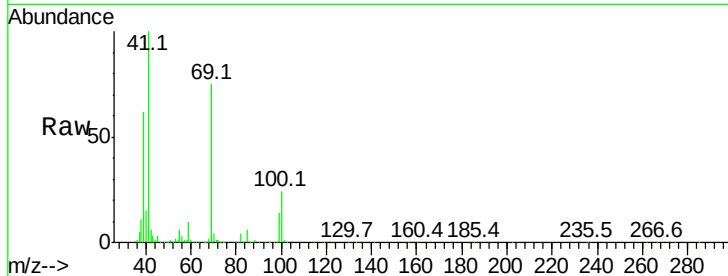




#43
Methyl Methacrylate
Concen: 12.403 ppbv
RT: 8.10 min Scan# 1605
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

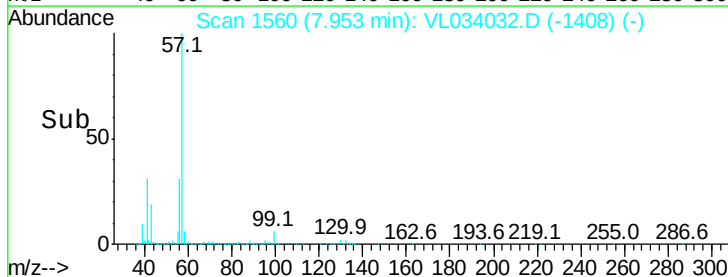
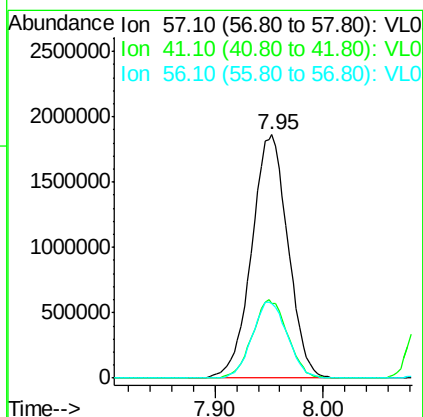
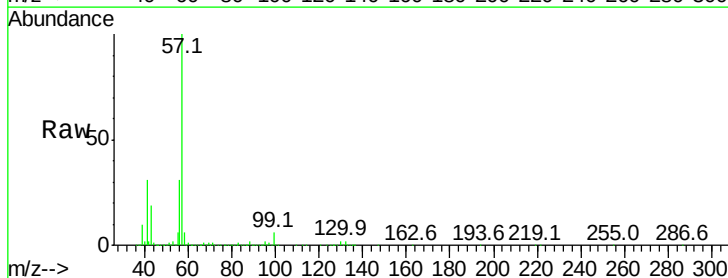
Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

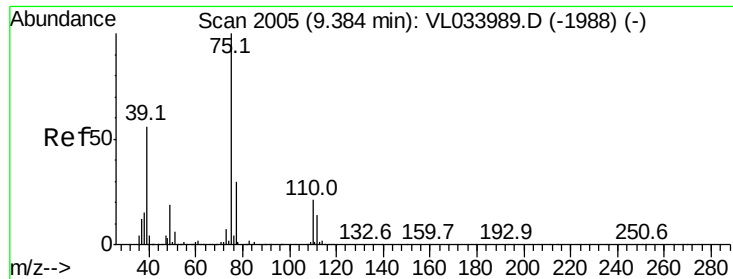
Tgt Ion: 69 Resp: 1034254
Ion Ratio Lower Upper
69 100
41 137.5 109.1 163.7
100 33.2 25.3 37.9



#44
2,2,4-Trimethylpentane
Concen: 11.449 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 57 Resp: 4343308
Ion Ratio Lower Upper
57 100
41 31.2 26.1 39.1
56 30.5 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 11.531 ppbv

RT: 9.37 min Scan# 2002

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

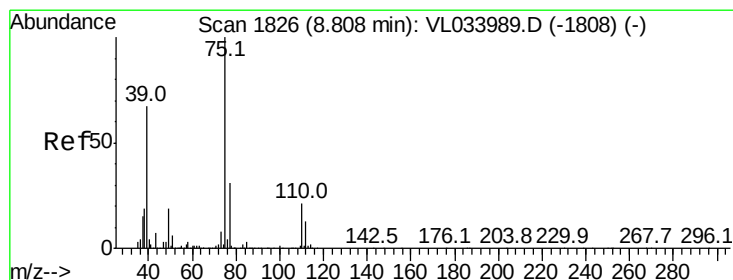
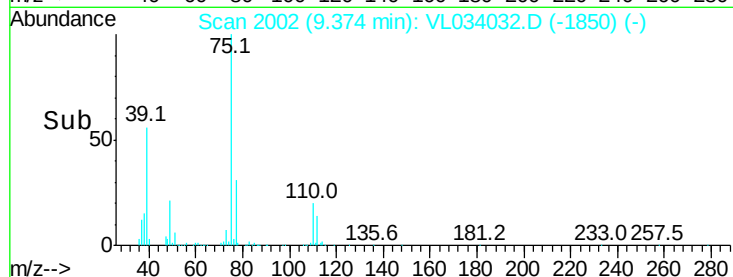
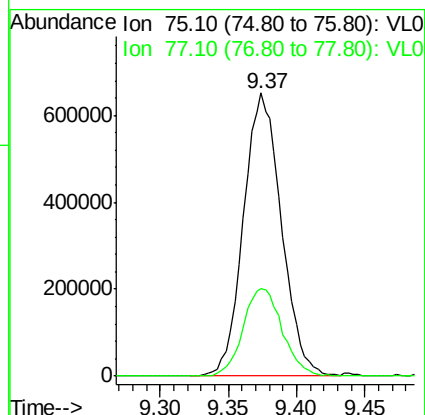
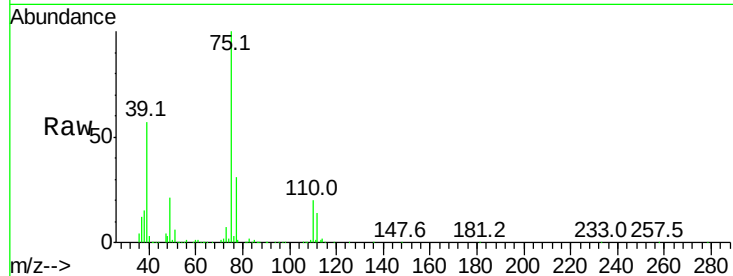
VL0711ABS02

Tgt Ion: 75 Resp: 1257315

Ion Ratio Lower Upper

75 100

77 31.0 24.3 36.5



#46

cis-1,3-Dichloropropene

Concen: 11.777 ppbv

RT: 8.80 min Scan# 1822

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

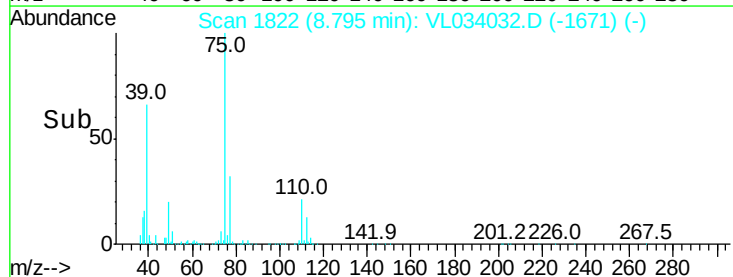
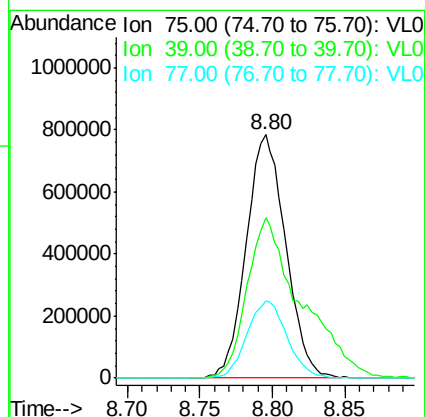
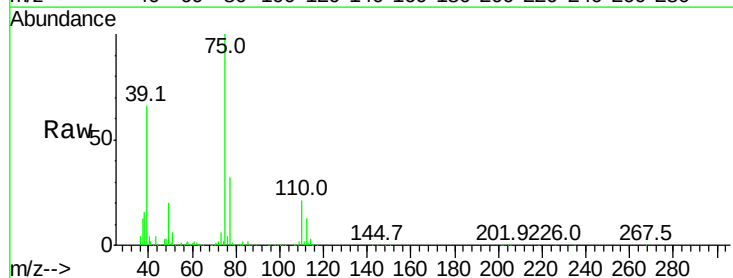
Tgt Ion: 75 Resp: 1487167

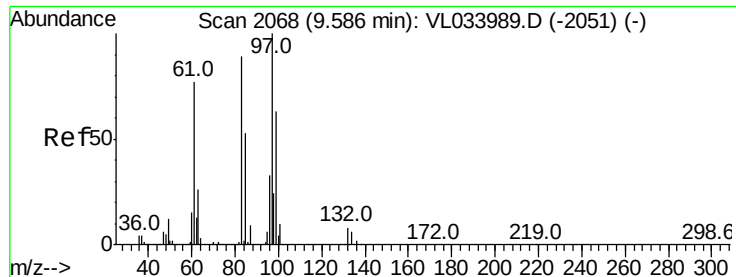
Ion Ratio Lower Upper

75 100

39 66.0 53.8 80.6

77 31.8 24.5 36.7

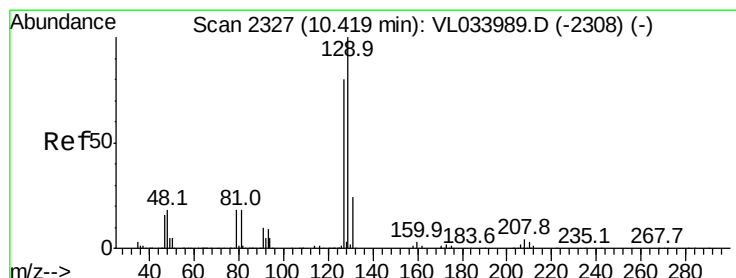
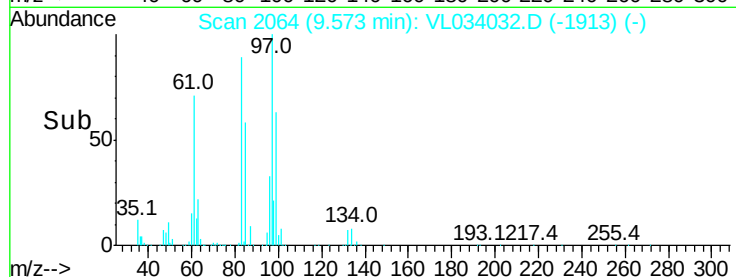
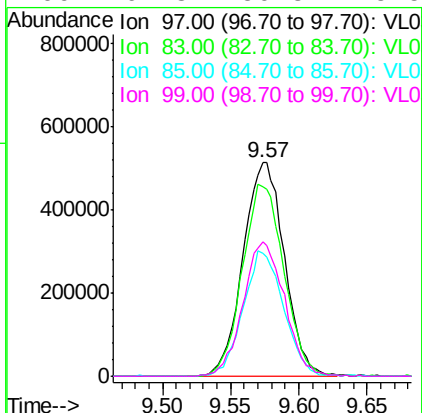
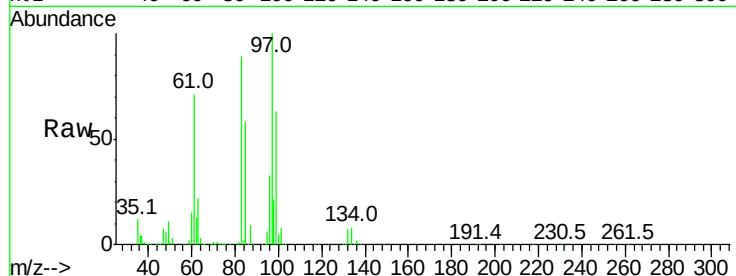




#47
 1,1,2-Trichloroethane
 Concen: 10.502 ppbv
 RT: 9.57 min Scan# 2064
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

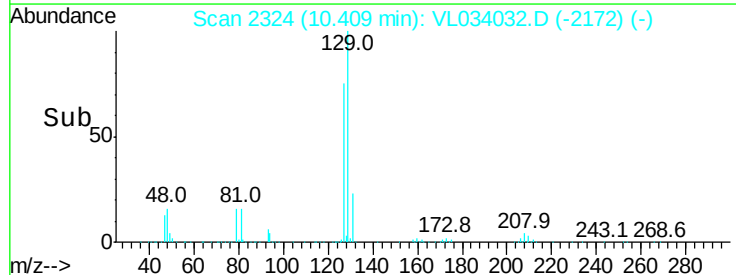
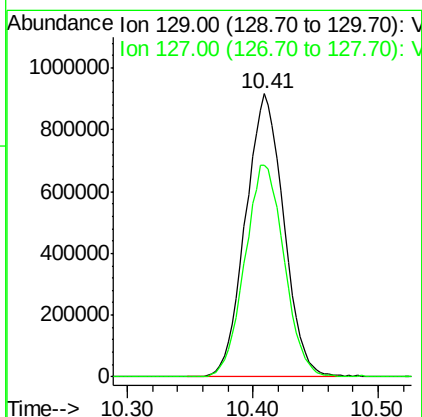
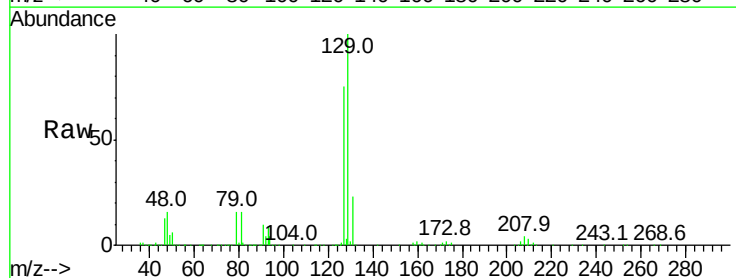
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

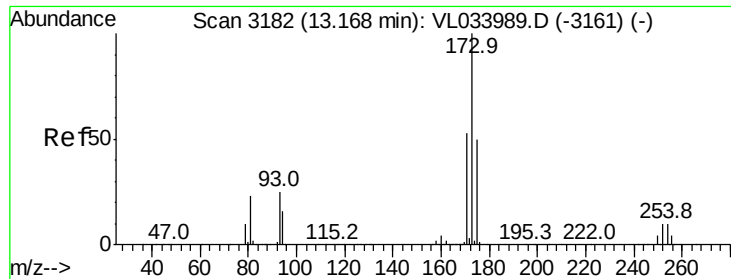
Tgt Ion: 97 Resp: 1079096
 Ion Ratio Lower Upper
 97 100
 83 88.7 71.1 106.7
 85 57.6 42.6 64.0
 99 62.8 50.3 75.5



#48
 Dibromochloromethane
 Concen: 9.908 ppbv
 RT: 10.41 min Scan# 2324
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 129 Resp: 1942569
 Ion Ratio Lower Upper
 129 100
 127 77.3 39.1 117.3





#49

Bromoform

Concen: 10.200 ppbv

RT: 13.16 min Scan# 3179

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

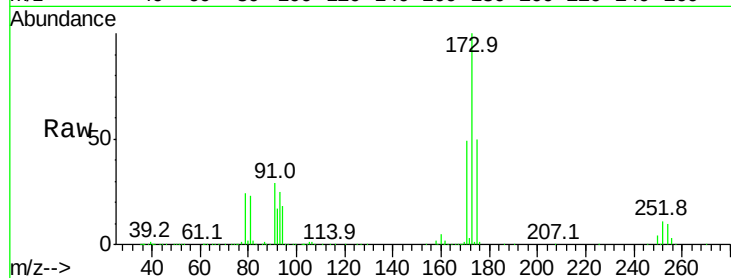
Tgt Ion:173 Resp: 1708390

Ion Ratio Lower Upper

173 100

175 49.8 39.3 58.9

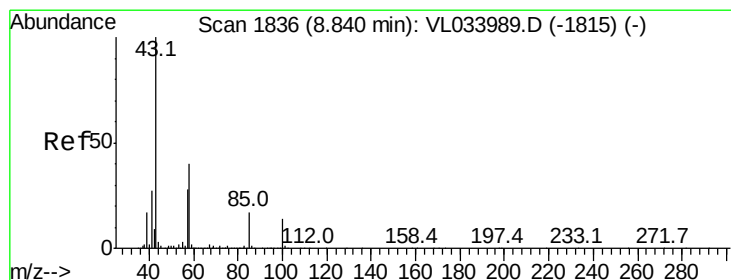
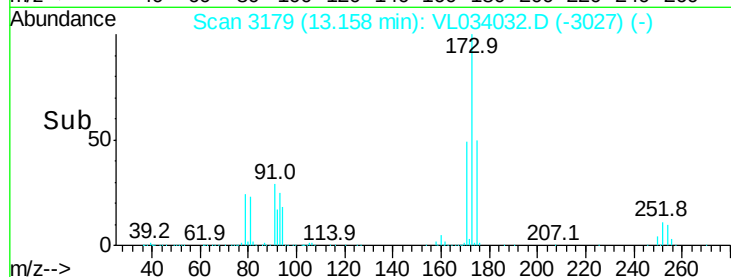
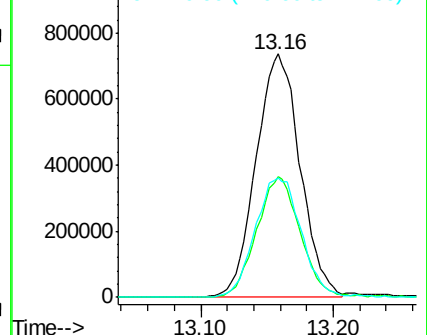
171 51.9 41.4 62.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 11.490 ppbv

RT: 8.83 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VL034032.D

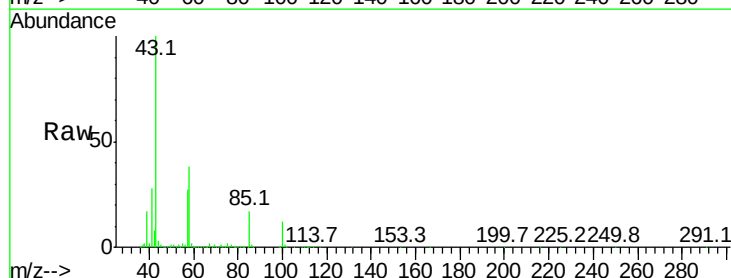
Acq: 12 Jul 2019 8:51

Tgt Ion: 43 Resp: 2534473

Ion Ratio Lower Upper

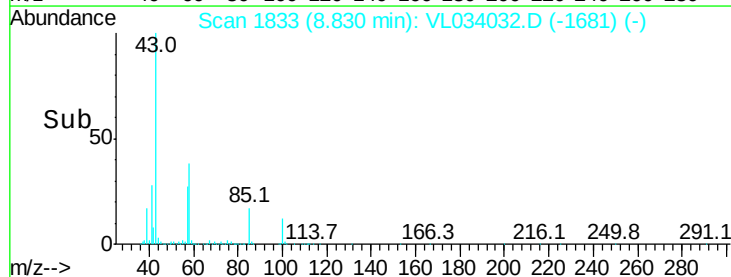
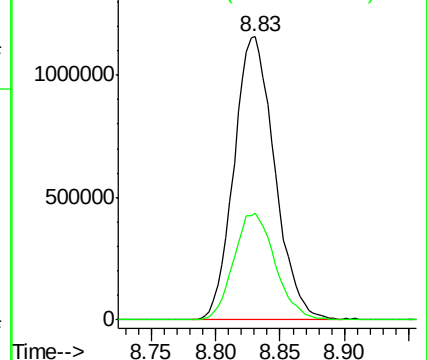
43 100

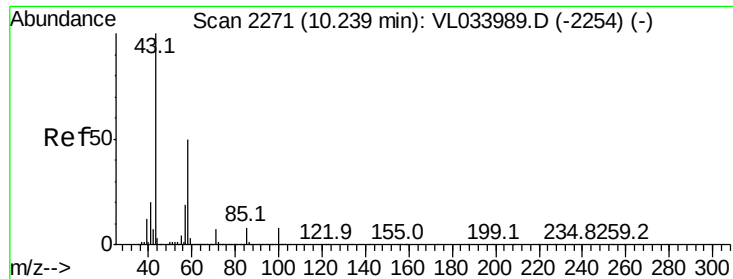
58 38.6 30.3 45.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

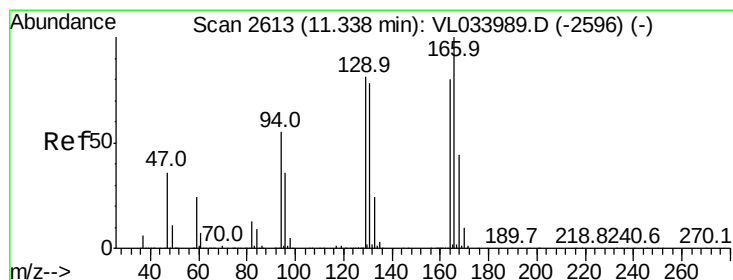
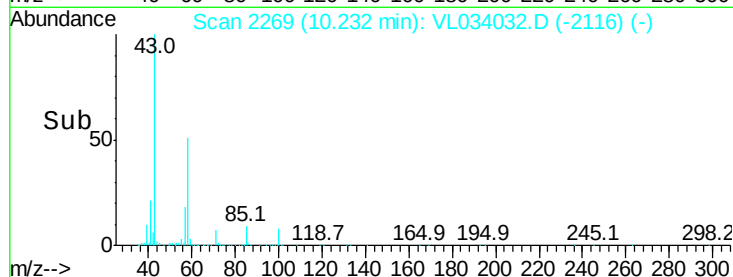
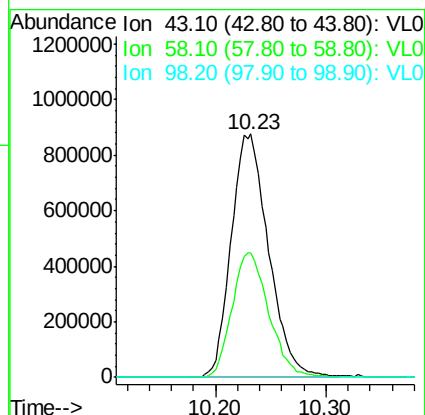
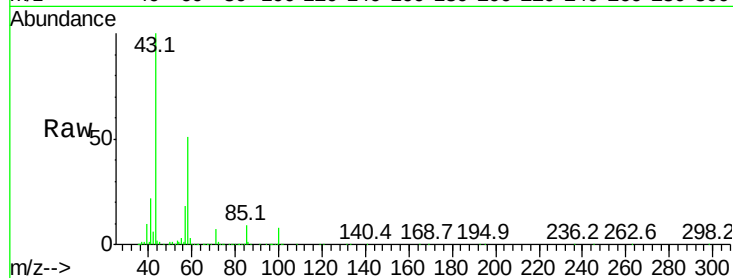




#51
2-Hexanone
Concen: 11.554 ppbv
RT: 10.23 min Scan# 2269
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

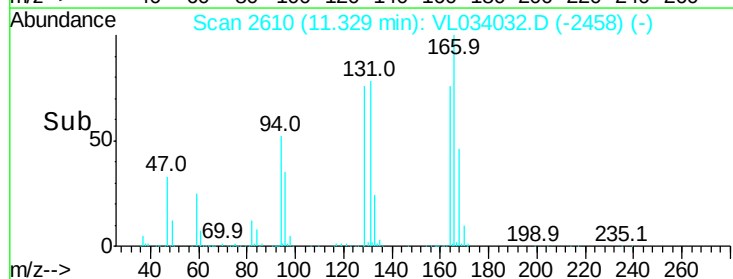
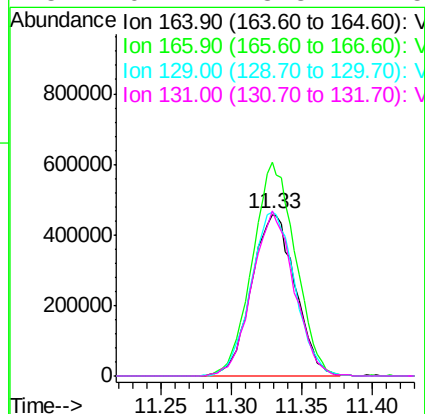
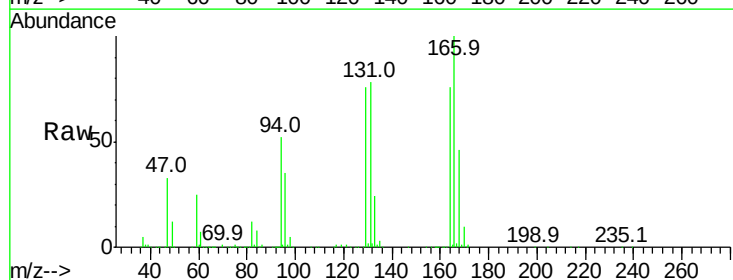
Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

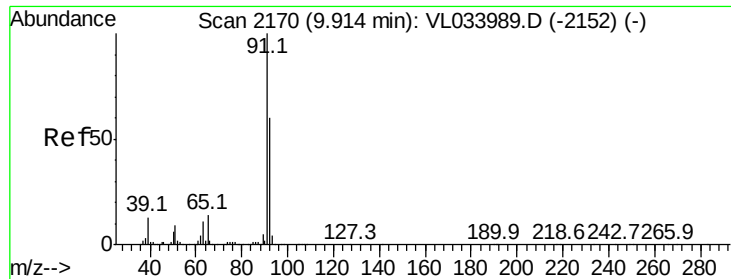
Tgt Ion: 43 Resp: 2055278
Ion Ratio Lower Upper
43 100
58 50.7 41.0 61.4
98 0.1 0.2 0.2#



#52
Tetrachloroethene
Concen: 10.469 ppbv
RT: 11.33 min Scan# 2610
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 164 Resp: 990263
Ion Ratio Lower Upper
164 100
166 132.0 100.2 150.2
129 101.0 81.0 121.6
131 102.4 78.3 117.5





#53

Toluene

Concen: 12.189 ppbv

RT: 9.90 min Scan# 2167

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

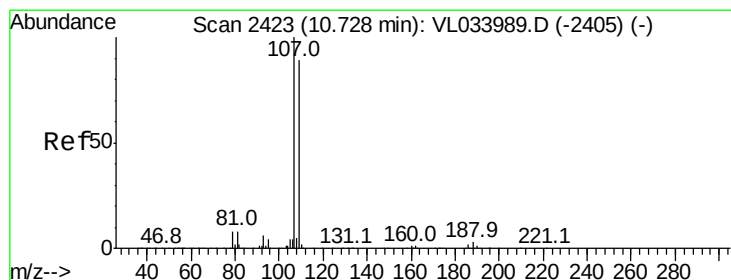
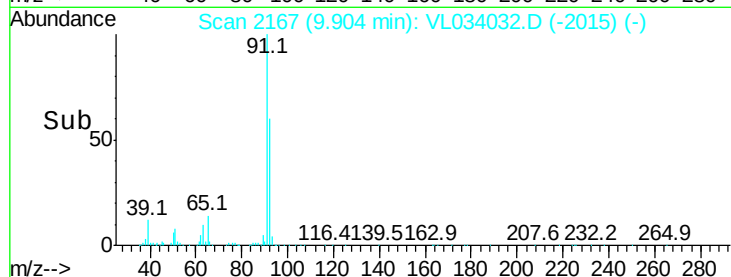
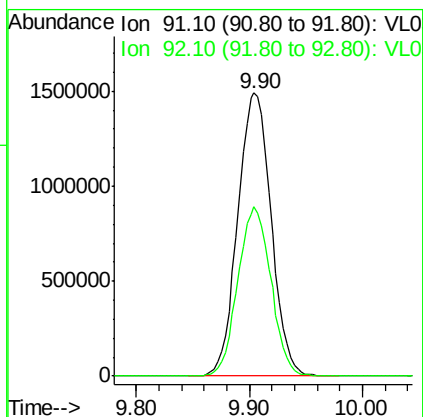
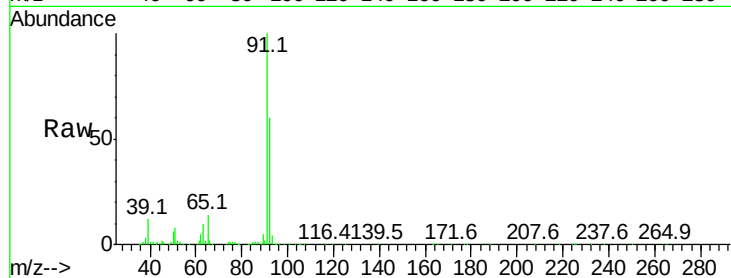
VL0711ABS02

Tgt Ion: 91 Resp: 3066483

Ion Ratio Lower Upper

91 100

92 59.1 47.7 71.5



#54

1,2-Dibromoethane

Concen: 11.016 ppbv

RT: 10.71 min Scan# 2419

Delta R.T. -0.01 min

Lab File: VL034032.D

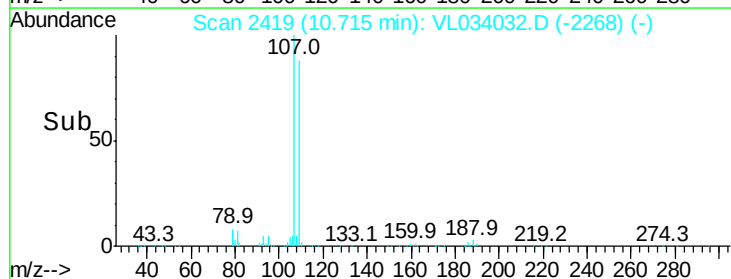
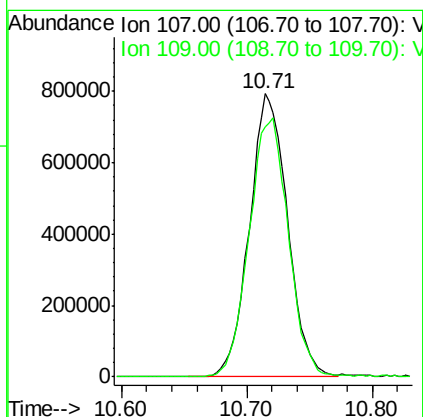
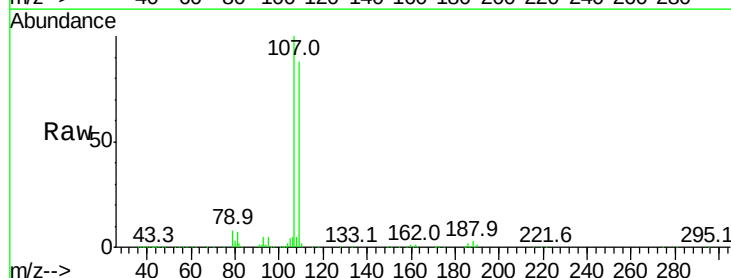
Acq: 12 Jul 2019 8:51

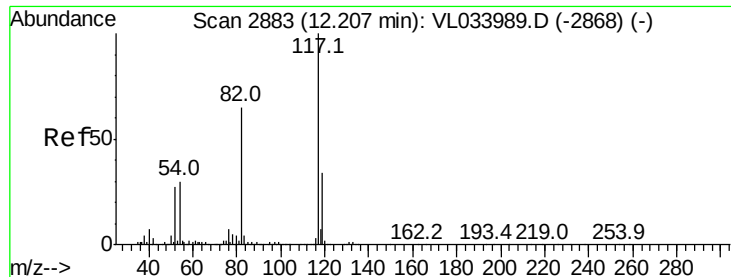
Tgt Ion: 107 Resp: 1670372

Ion Ratio Lower Upper

107 100

109 88.3 71.5 107.3

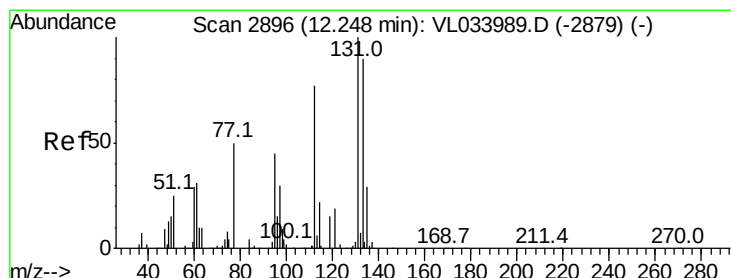
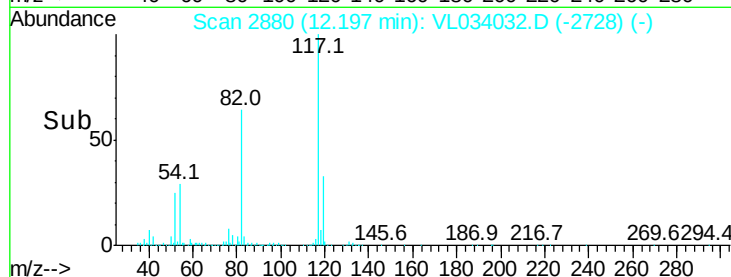
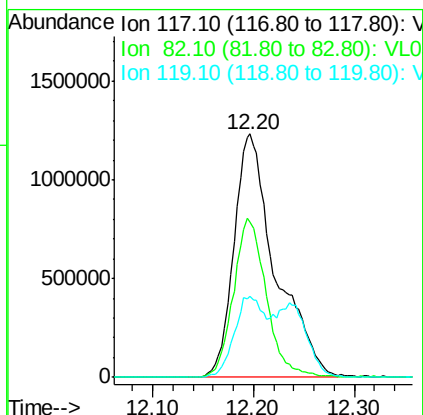
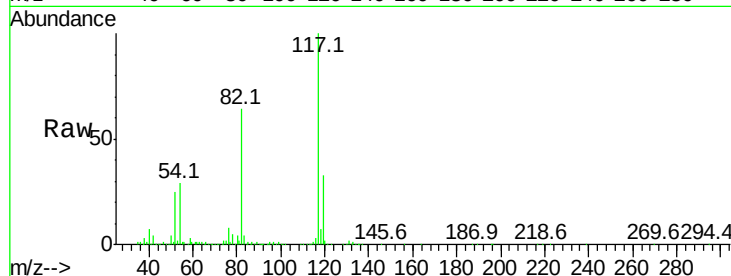




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2880
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

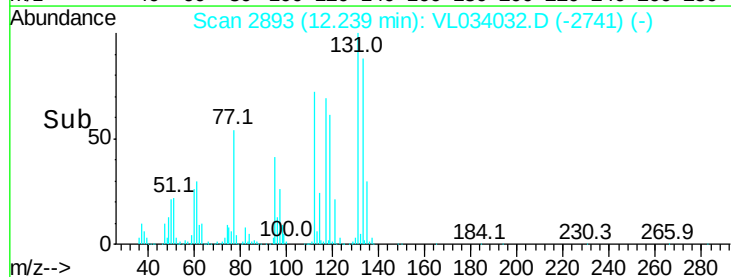
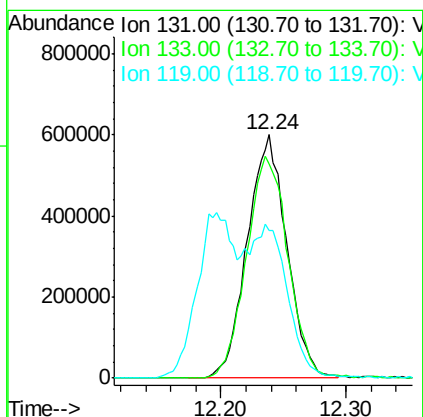
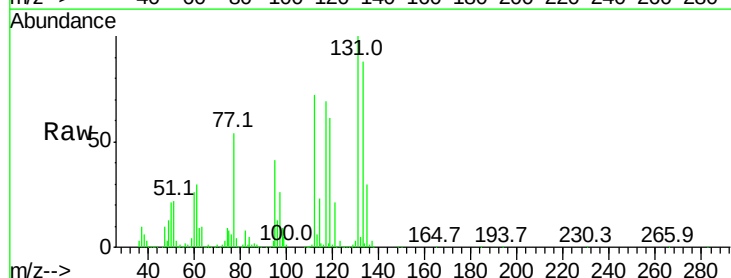
Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

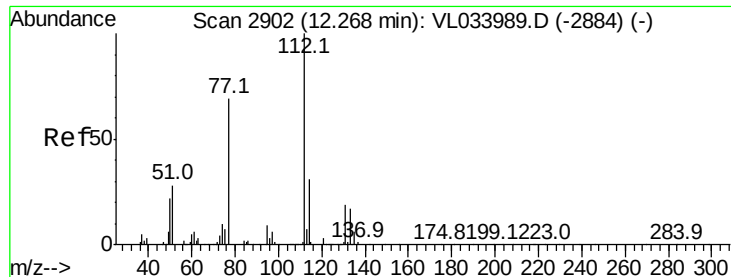
Tgt Ion:117 Resp: 3535501
Ion Ratio Lower Upper
117 100
82 51.9 50.8 76.2
119 24.9 24.0 36.0



#56
1,1,1,2-Tetrachloroethane
Concen: 8.323 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion:131 Resp: 1315228
Ion Ratio Lower Upper
131 100
133 96.6 76.2 114.2
119 52.7 43.1 64.7

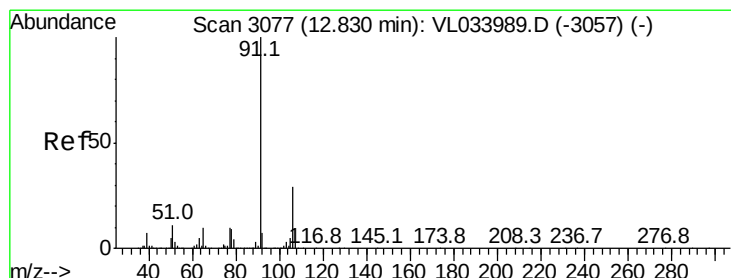
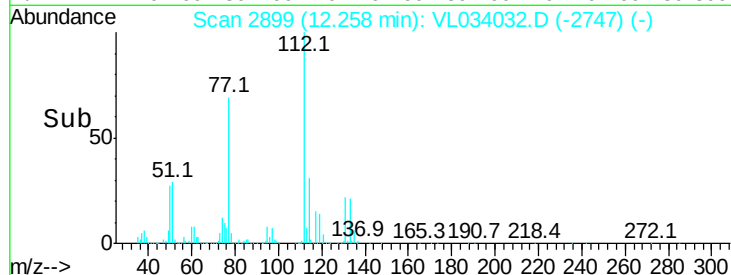
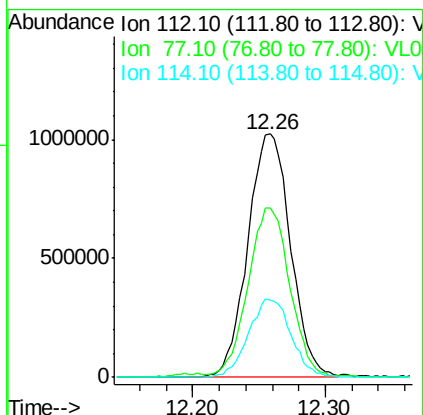
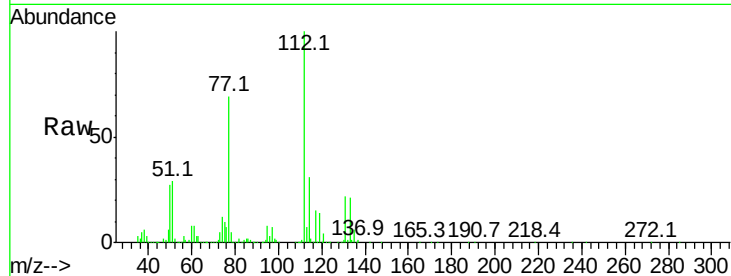




#57
Chlorobenzene
Concen: 8.140 ppbv
RT: 12.26 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

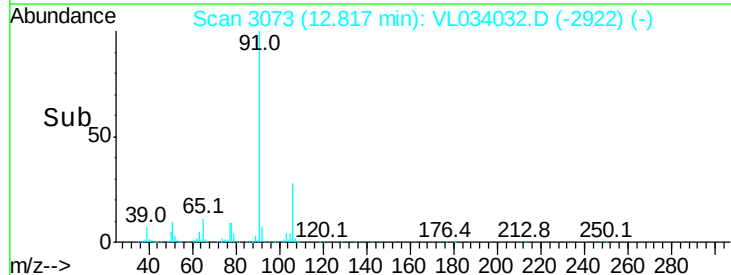
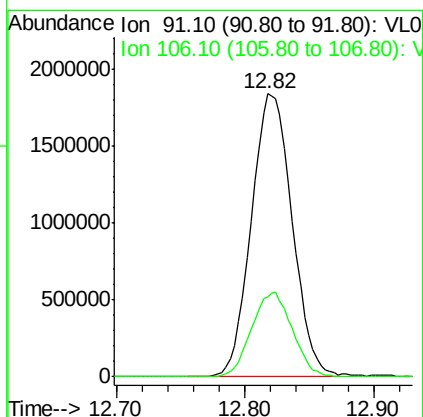
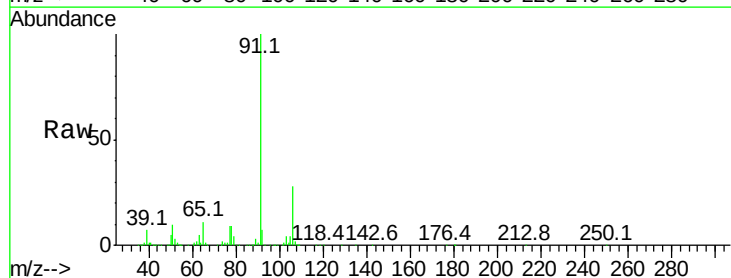
Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

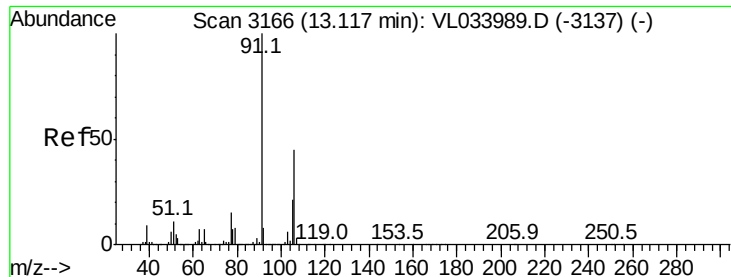
Tgt Ion: 112 Resp: 2291148
Ion Ratio Lower Upper
112 100
77 68.7 55.9 83.9
114 31.5 27.6 33.8



#58
Ethyl Benzene
Concen: 9.566 ppbv
RT: 12.82 min Scan# 3073
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 91 Resp: 4067019
Ion Ratio Lower Upper
91 100
106 28.4 23.3 34.9

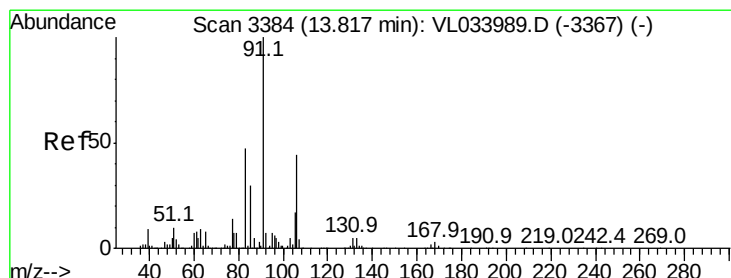
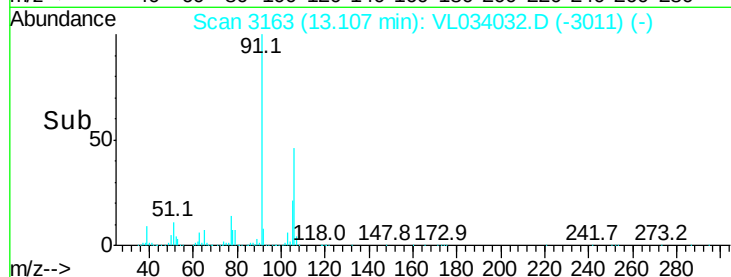
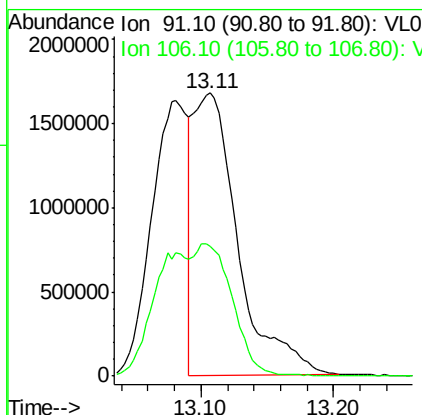
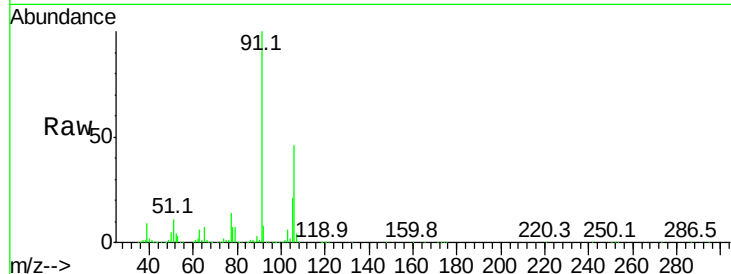




#59
m/p-Xylene
Concen: 10.089 ppbv
RT: 13.11 min Scan# 3163
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

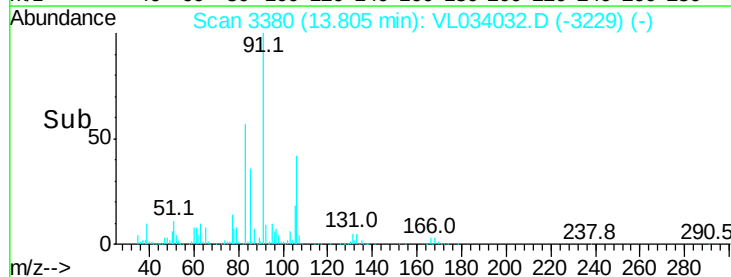
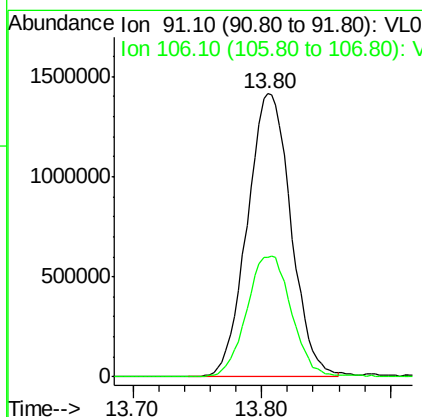
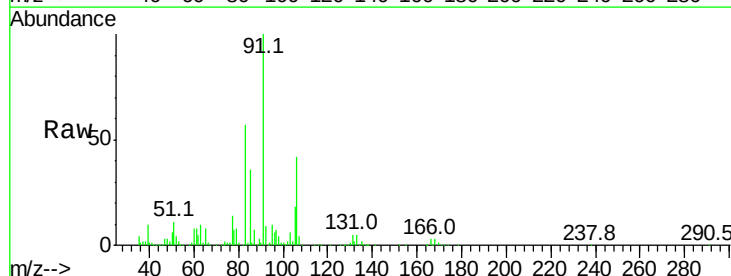
Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS02

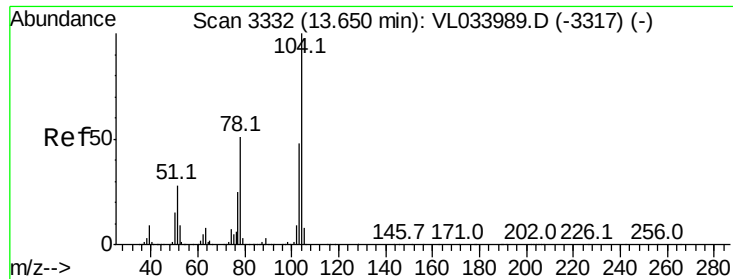
Tgt Ion: 91 Resp: 3883995
Ion Ratio Lower Upper
91 100
106 78.2 35.7 53.5#



#60
o-Xylene
Concen: 8.659 ppbv
RT: 13.80 min Scan# 3380
Delta R.T. -0.01 min
Lab File: VL034032.D
Acq: 12 Jul 2019 8:51

Tgt Ion: 91 Resp: 3334643
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.7





#61

Styrene

Concen: 9.448 ppbv

RT: 13.64 min Scan# 3329

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

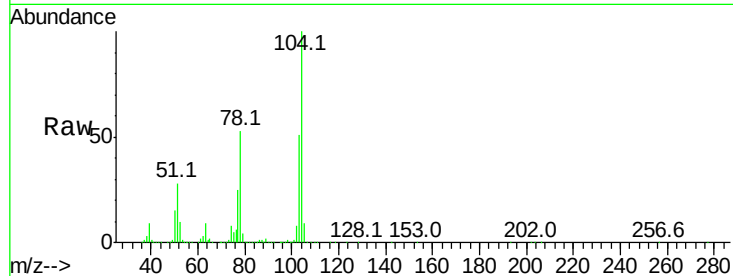
Tgt Ion:104 Resp: 2407889

Ion Ratio Lower Upper

104 100

78 53.8 43.9 65.9

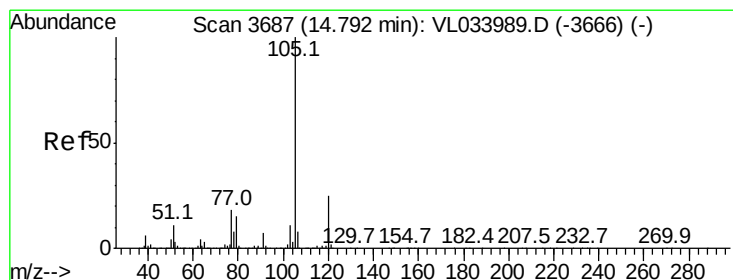
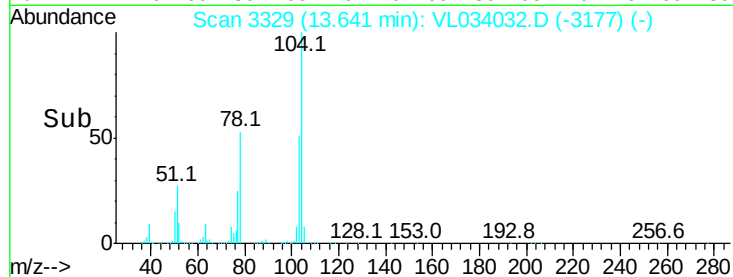
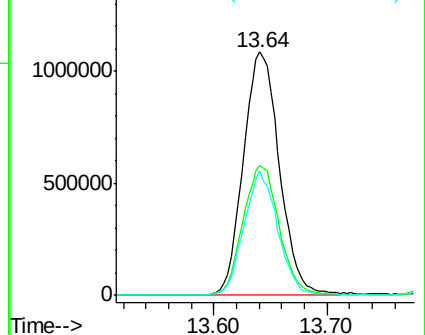
103 48.1 38.1 57.1



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.712 ppbv

RT: 14.79 min Scan# 3685

Delta R.T. -0.01 min

Lab File: VL034032.D

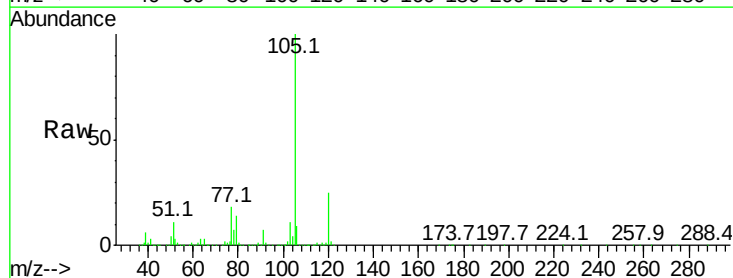
Acq: 12 Jul 2019 8:51

Tgt Ion:105 Resp: 4565913

Ion Ratio Lower Upper

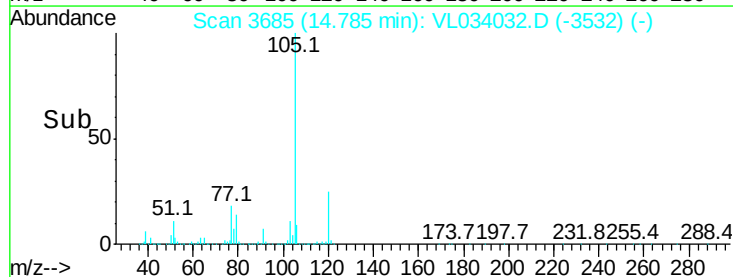
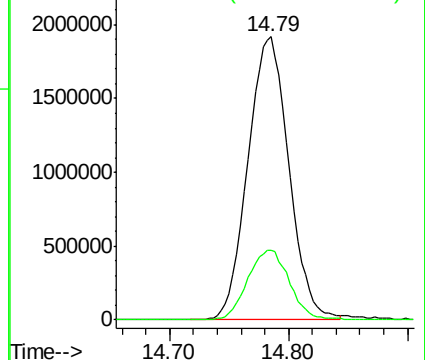
105 100

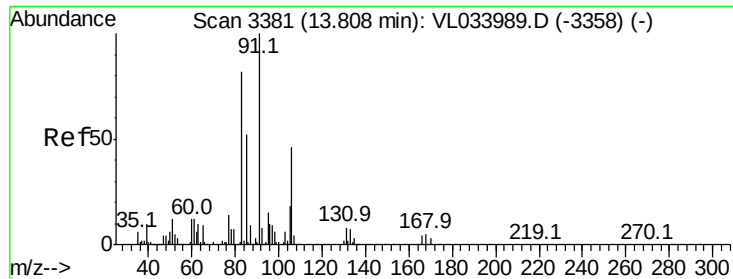
120 25.3 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 7.848 ppbv

RT: 13.79 min Scan# 3377

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS02

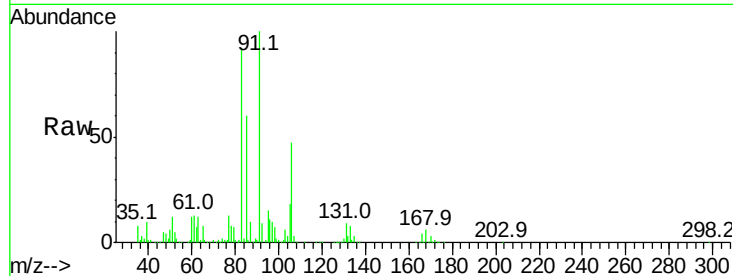
Tgt Ion: 83 Resp: 2339609

Ion Ratio Lower Upper

83 100

131 9.6 5.0 14.9

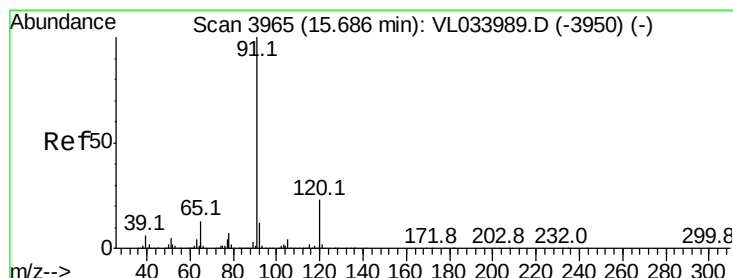
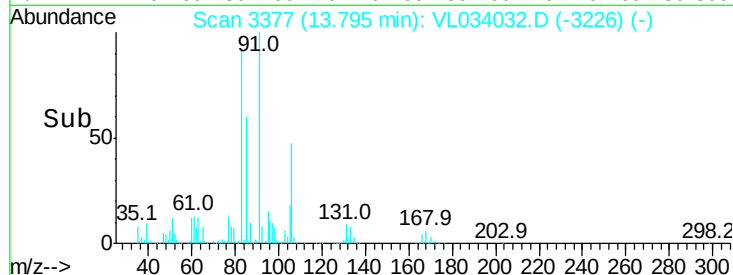
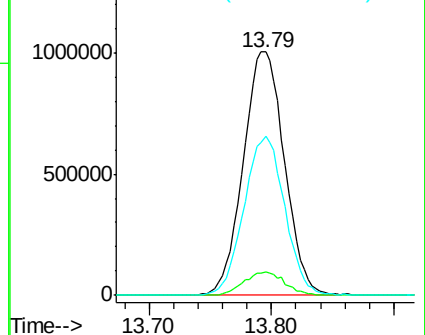
85 64.8 32.8 98.3



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 7.574 ppbv

RT: 15.68 min Scan# 3963

Delta R.T. -0.01 min

Lab File: VL034032.D

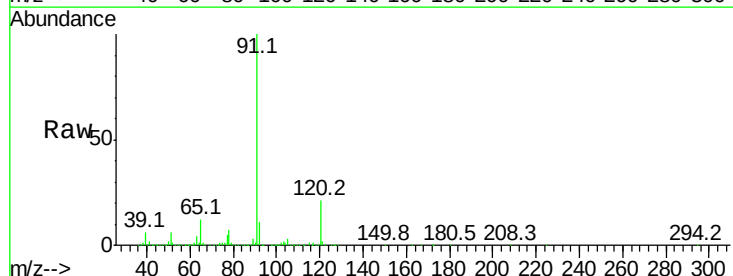
Acq: 12 Jul 2019 8:51

Tgt Ion:120 Resp: 1162728

Ion Ratio Lower Upper

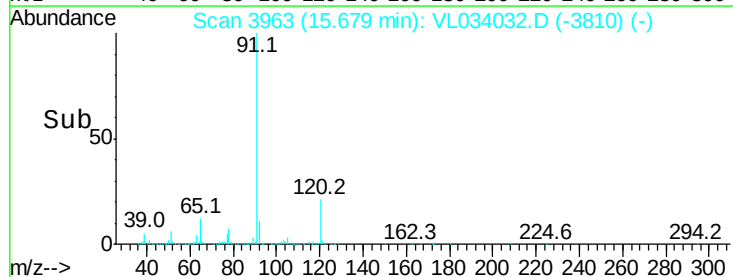
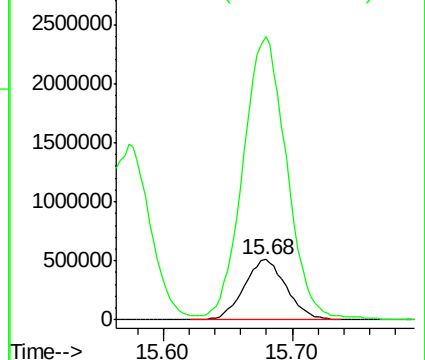
120 100

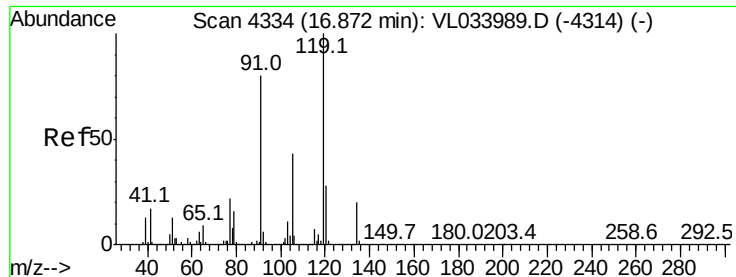
91 489.4 386.6 579.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

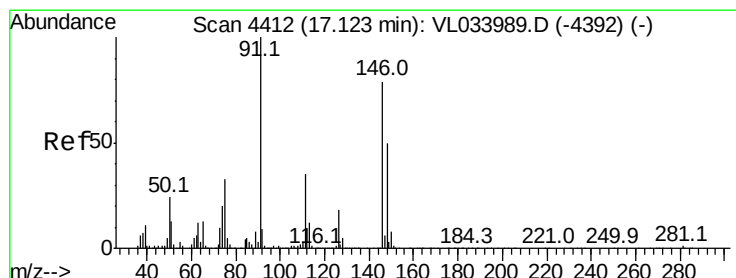
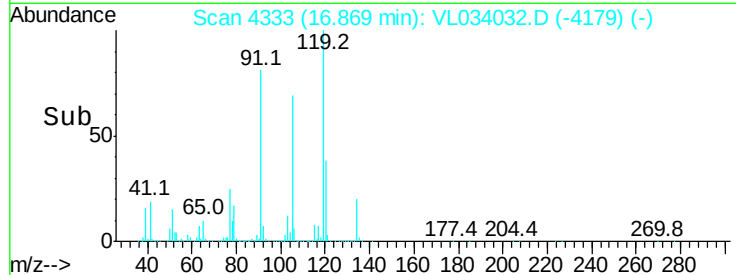
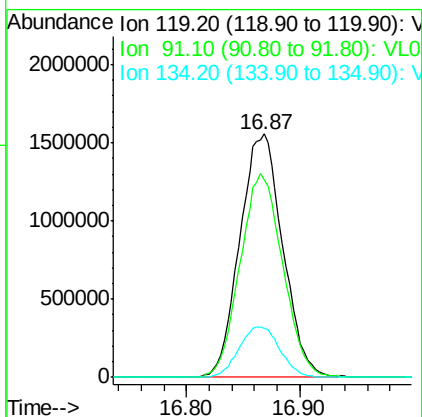
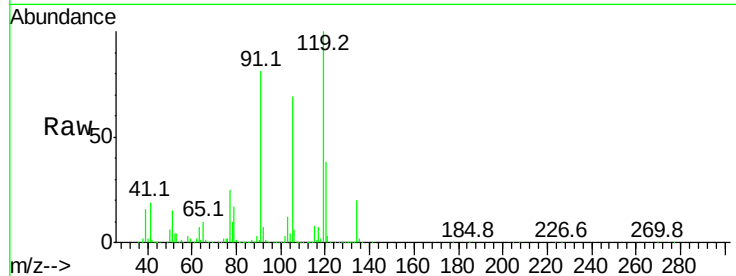




#65
 tert-Butylbenzene
 Concen: 8.138 ppbv
 RT: 16.87 min Scan# 4333
 Delta R.T. -0.00 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

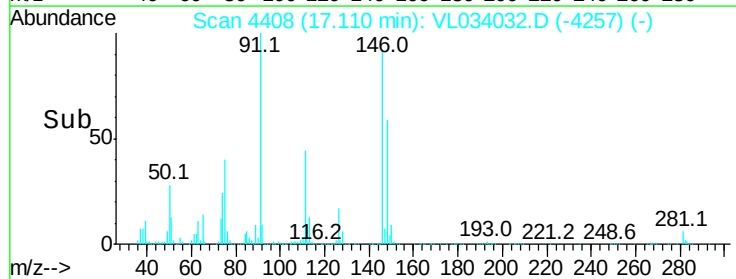
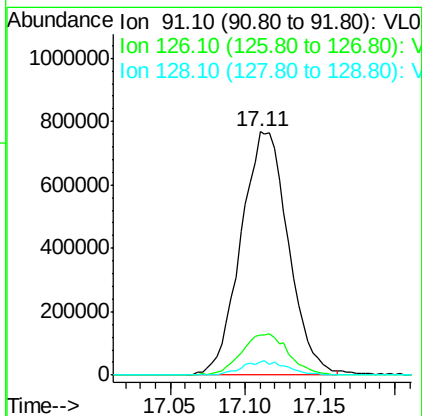
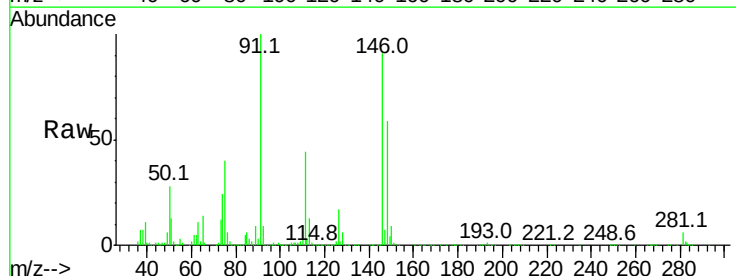
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

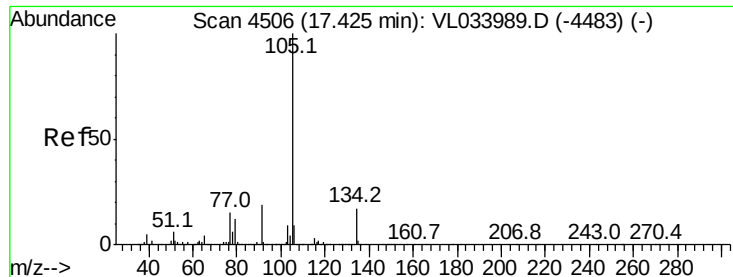
Tgt Ion: 119 Resp: 4096821
 Ion Ratio Lower Upper
 119 100
 91 83.3 67.0 100.6
 134 20.0 15.8 23.6



#66
 Benzyl Chloride
 Concen: 6.534 ppbv
 RT: 17.11 min Scan# 4408
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 91 Resp: 1682957
 Ion Ratio Lower Upper
 91 100
 126 17.2 13.9 20.9
 128 5.5 4.6 7.0





#67

sec-Butylbenzene

Concen: 8.219 ppbv

RT: 17.42 min Scan# 4503

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

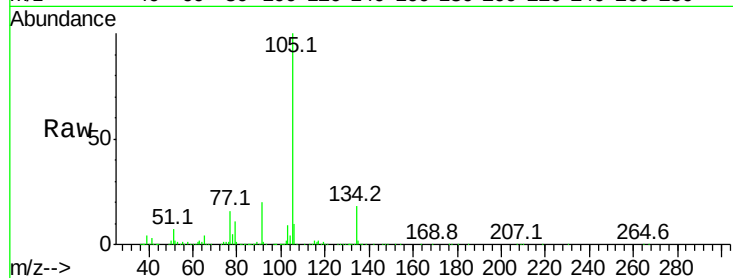
VL0711ABS02

Tgt Ion:105 Resp: 5808261

Ion Ratio Lower Upper

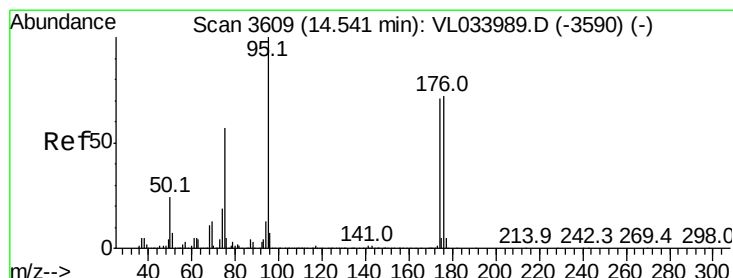
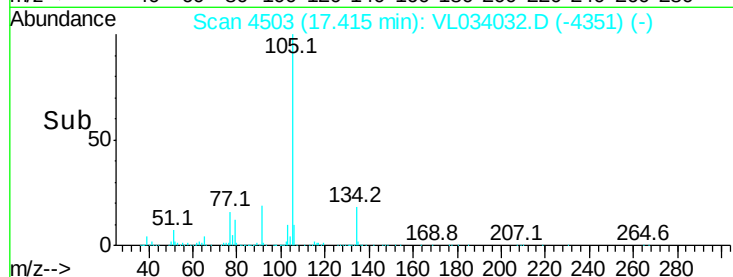
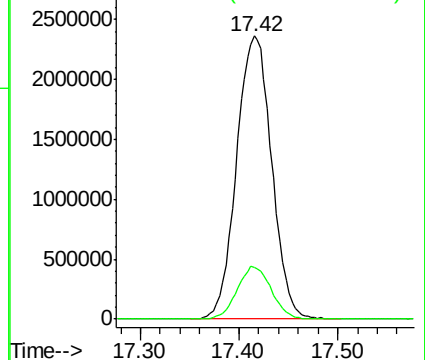
105 100

134 18.1 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 7.263 ppbv

RT: 14.53 min Scan# 3606

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

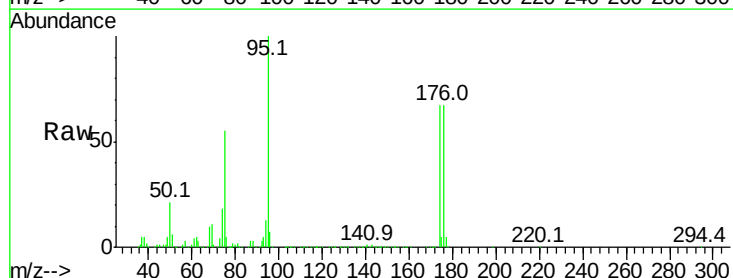
Tgt Ion: 95 Resp: 2190191

Ion Ratio Lower Upper

95 100

174 72.2 60.5 90.7

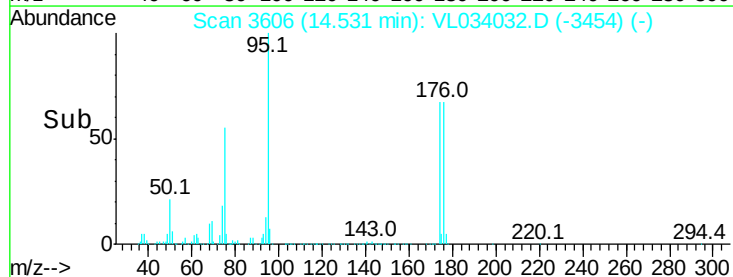
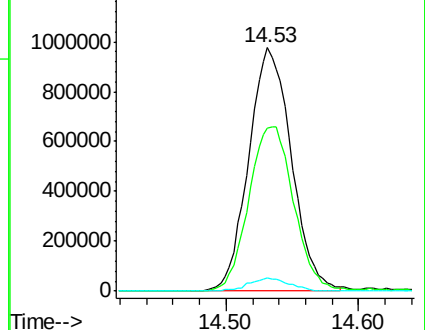
175 5.2 4.0 6.0

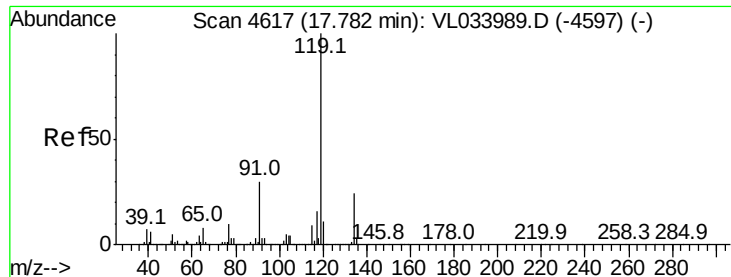


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

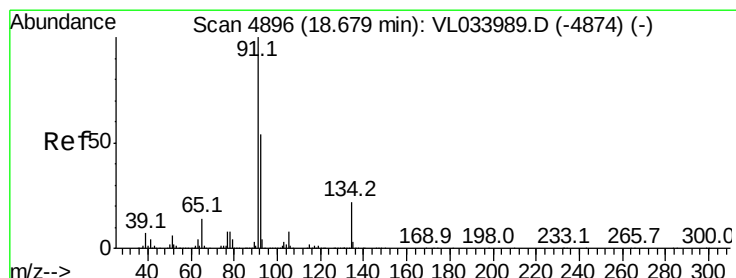
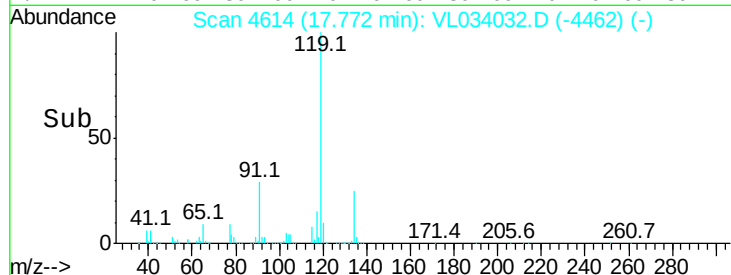
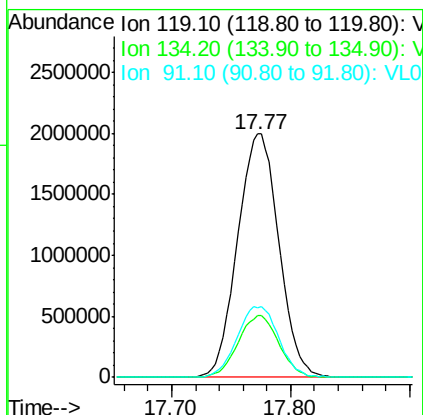
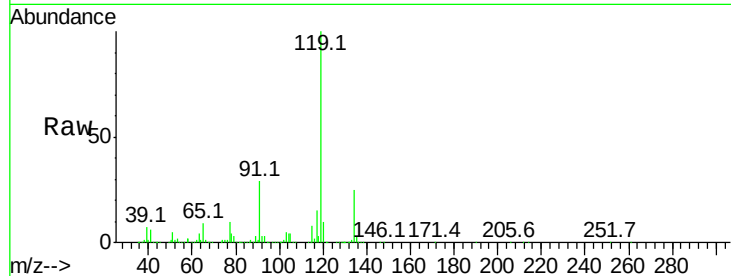




#69
 p-Isopropyltoluene
 Concen: 8.193 ppbv
 RT: 17.77 min Scan# 4614
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

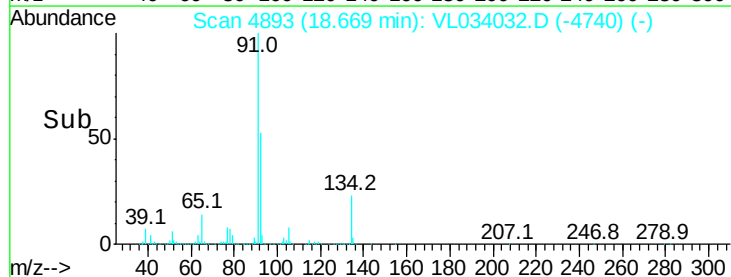
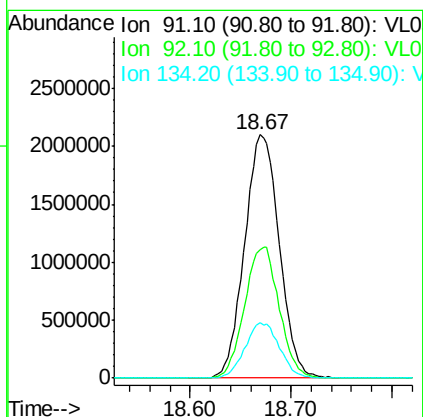
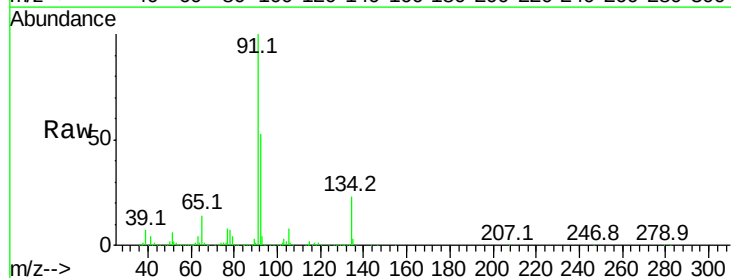
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

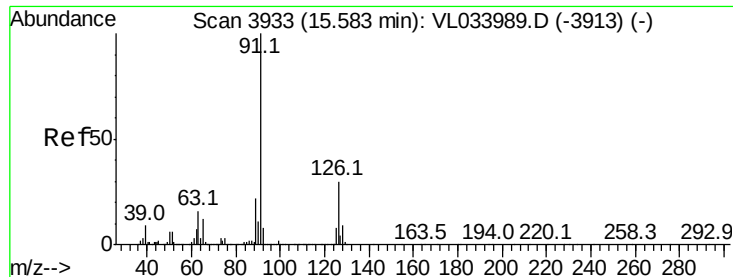
Tgt Ion: 119 Resp: 4773703
 Ion Ratio Lower Upper
 119 100
 134 25.2 20.1 30.1
 91 29.6 23.6 35.4



#70
 n-Butylbenzene
 Concen: 8.156 ppbv
 RT: 18.67 min Scan# 4893
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion: 91 Resp: 4991769
 Ion Ratio Lower Upper
 91 100
 92 53.7 42.0 63.0
 134 22.6 17.9 26.9





#71

2-Chlorotoluene

Concen: 7.995 ppbv

RT: 15.57 min Scan# 3930

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

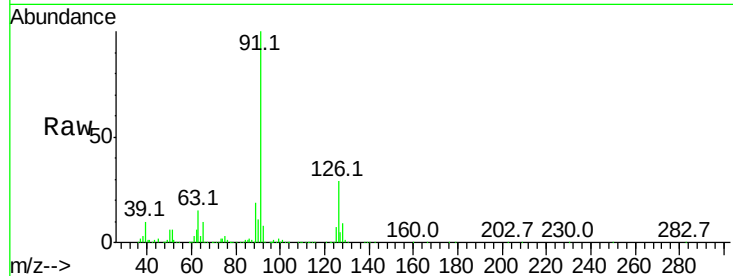
VL0711ABS02

Tgt Ion: 91 Resp: 3464116

Ion Ratio Lower Upper

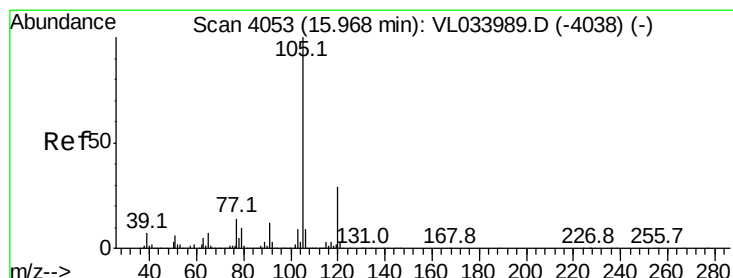
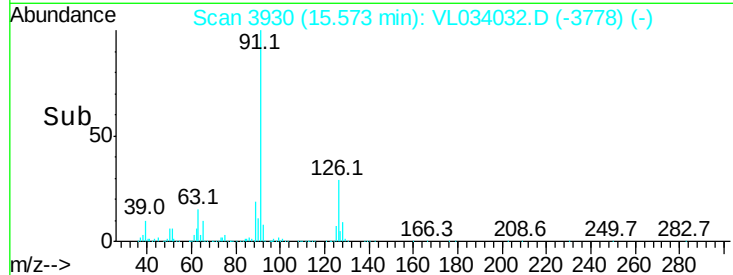
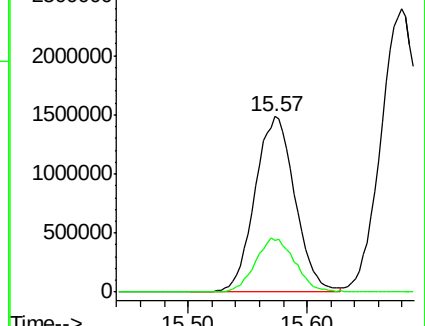
91 100

126 30.7 12.3 49.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 7.886 ppbv

RT: 15.96 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion: 105 Resp: 3900338

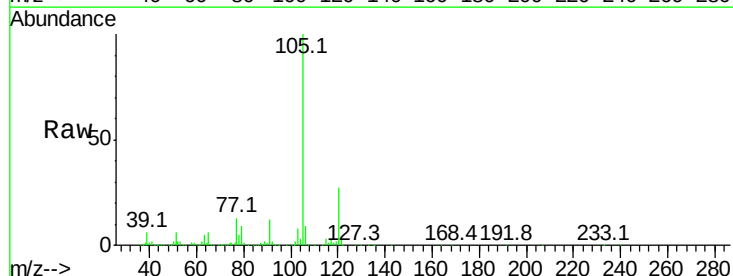
Ion Ratio Lower Upper

105 100

120 28.6 24.1 36.1

91 12.9 10.6 16.0

77 13.6 11.5 17.3

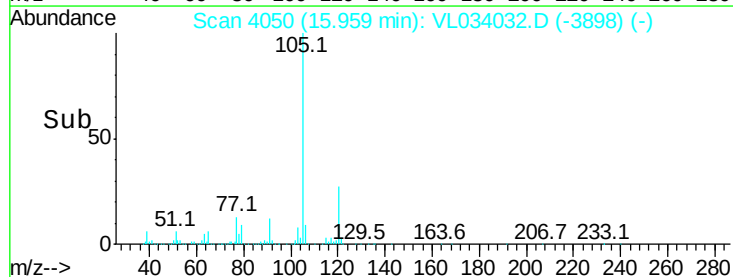
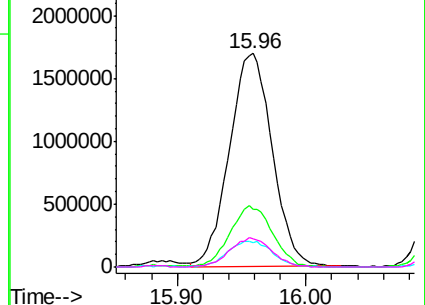


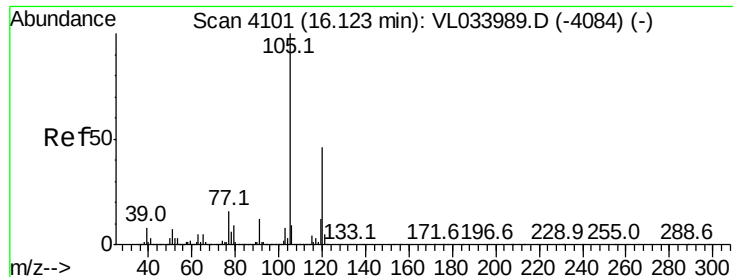
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.151 ppbv

RT: 16.12 min Scan# 4099

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

MSVOA_L

ClientSampleId :

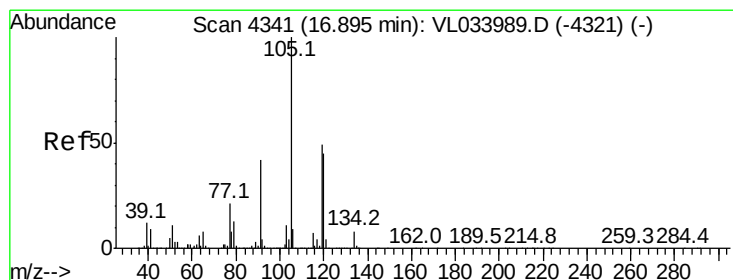
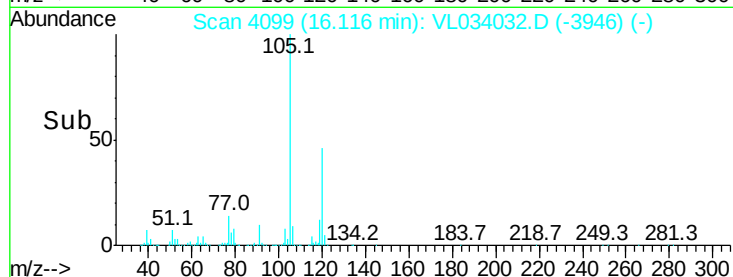
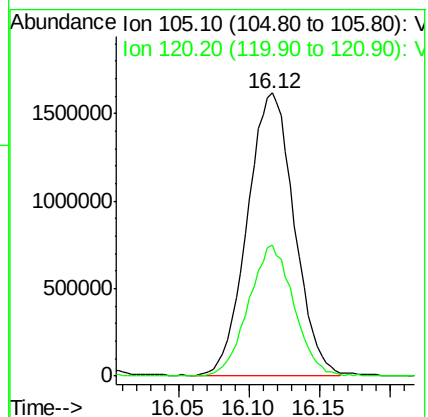
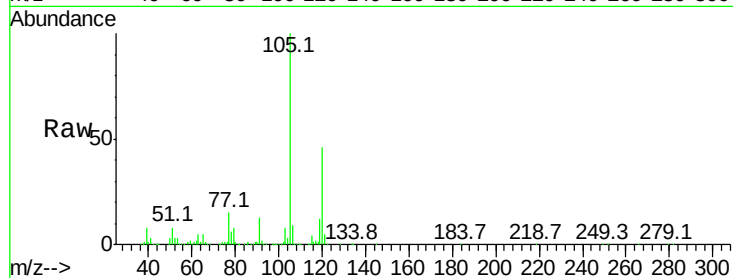
VL0711ABS02

Tgt Ion:105 Resp: 3750714

Ion Ratio Lower Upper

105 100

120 46.3 36.4 54.6



#74

1,2,4-Trimethylbenzene

Concen: 7.608 ppbv

RT: 16.88 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion:105 Resp: 3877749

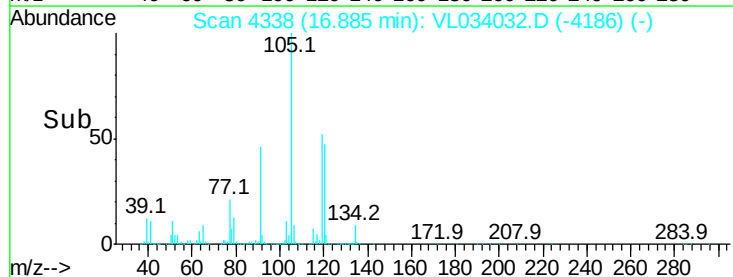
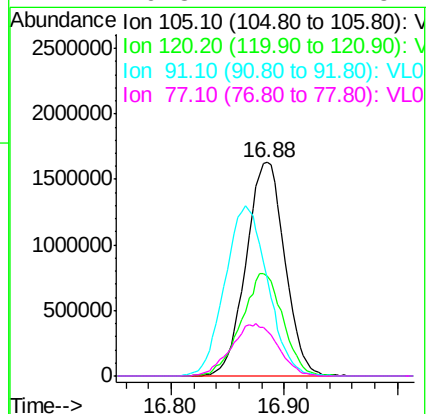
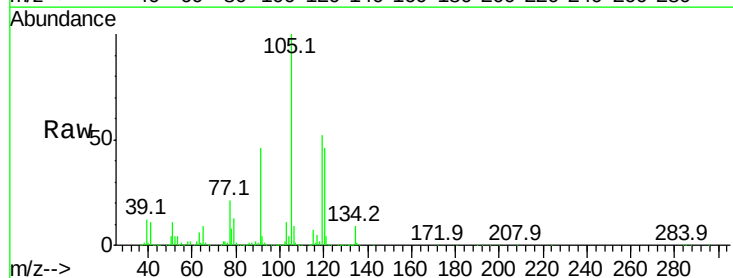
Ion Ratio Lower Upper

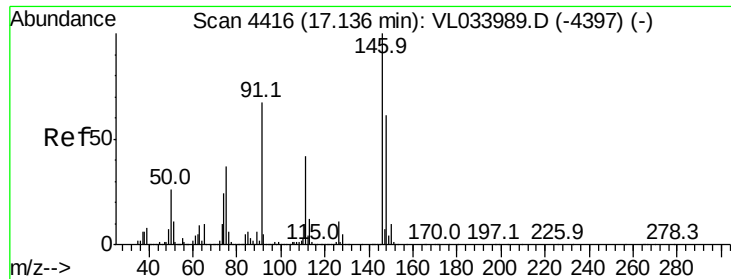
105 100

120 46.3 36.2 54.2

91 45.3 34.3 51.5

77 20.8 17.1 25.7

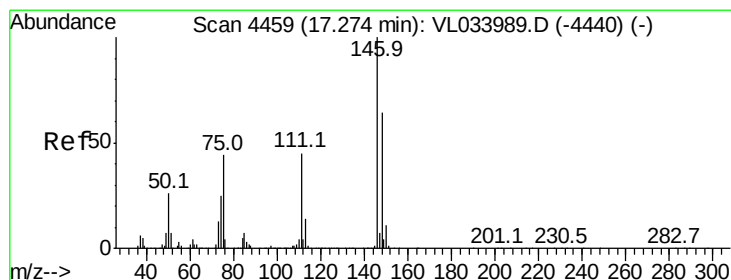
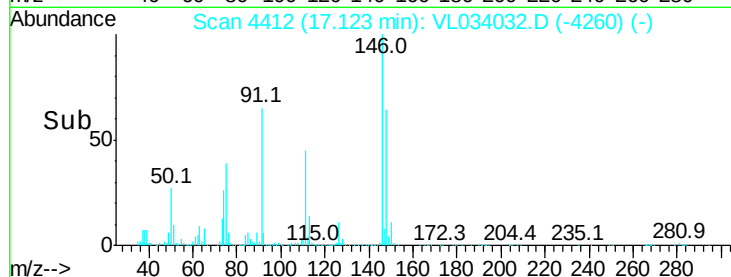
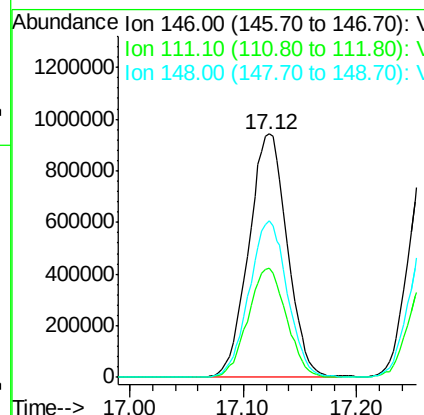
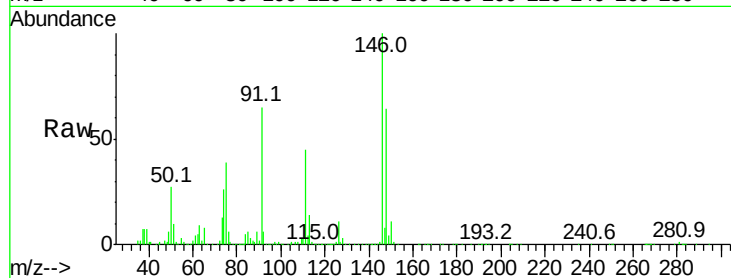




#75
 1,3-Dichlorobenzene
 Concen: 6.907 ppbv
 RT: 17.12 min Scan# 4412
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

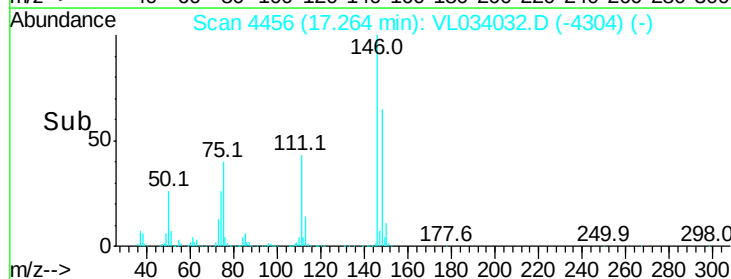
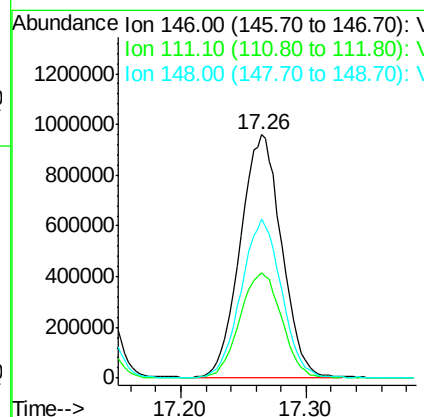
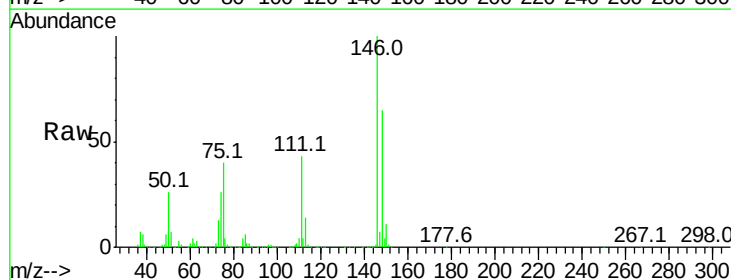
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

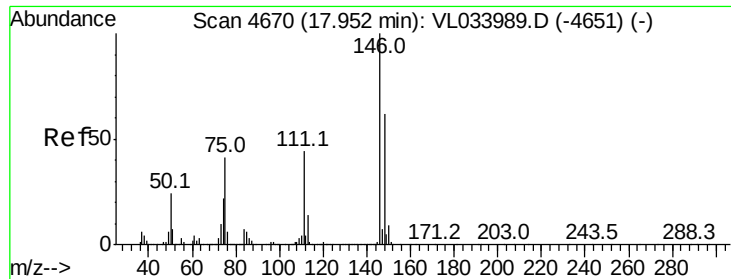
Tgt Ion:146 Resp: 2236137
 Ion Ratio Lower Upper
 146 100
 111 44.8 22.3 66.9
 148 63.8 32.0 96.2



#76
 1,4-Dichlorobenzene
 Concen: 7.191 ppbv
 RT: 17.26 min Scan# 4456
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion:146 Resp: 2192646
 Ion Ratio Lower Upper
 146 100
 111 44.2 21.9 65.5
 148 64.2 32.5 97.5

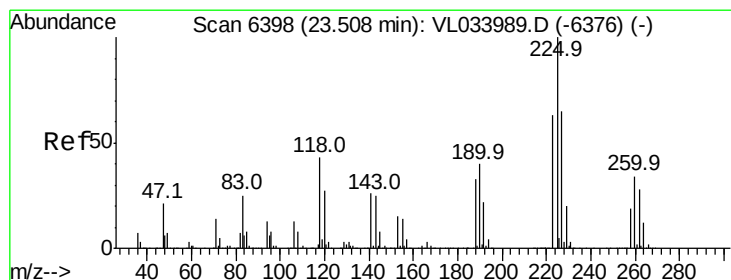
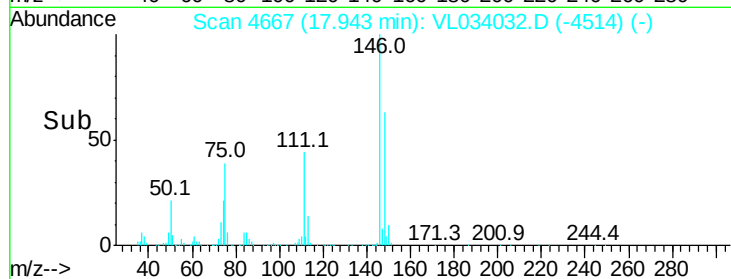
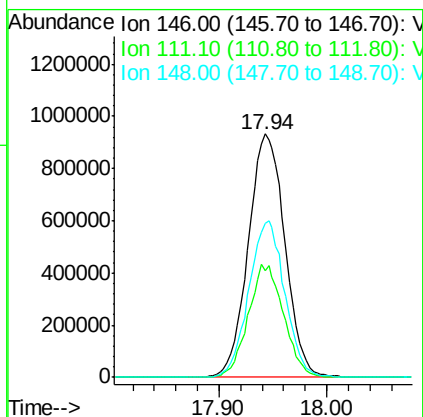
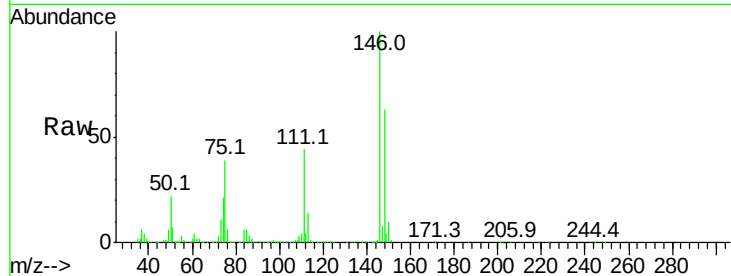




#77
 1,2-Dichlorobenzene
 Concen: 7.332 ppbv
 RT: 17.94 min Scan# 4667
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

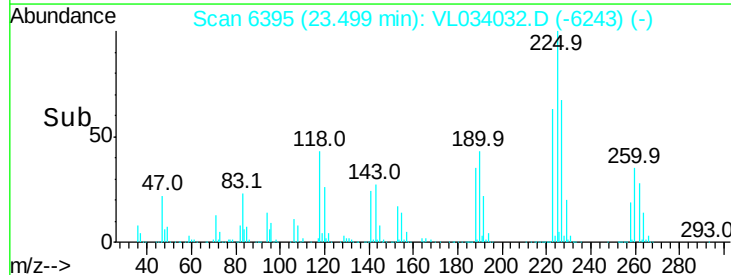
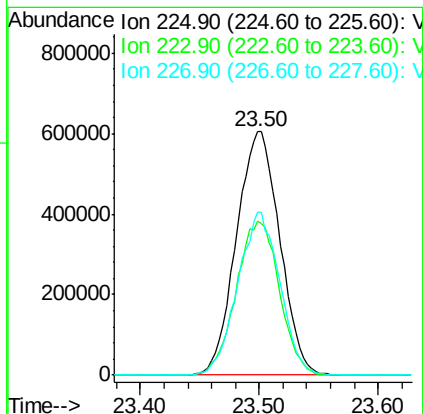
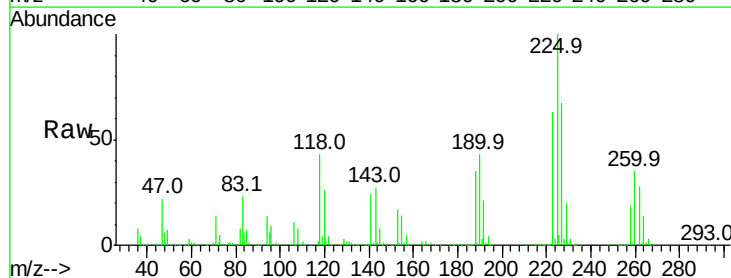
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

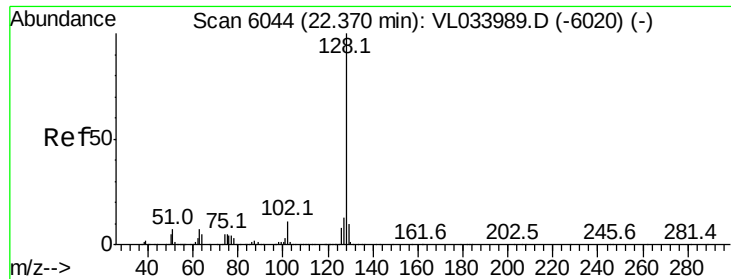
Tgt Ion:146 Resp: 2198136
 Ion Ratio Lower Upper
 146 100
 111 44.8 22.7 68.1
 148 63.5 32.1 96.3



#78
 Hexachloro-1,3-Butadiene
 Concen: 5.964 ppbv
 RT: 23.50 min Scan# 6395
 Delta R.T. -0.01 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Tgt Ion:225 Resp: 1521299
 Ion Ratio Lower Upper
 225 100
 223 63.2 51.5 77.3
 227 65.2 52.1 78.1





#79

Naphthalene

Concen: 7.406 ppbv

RT: 22.36 min Scan# 6040

Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Instrument :

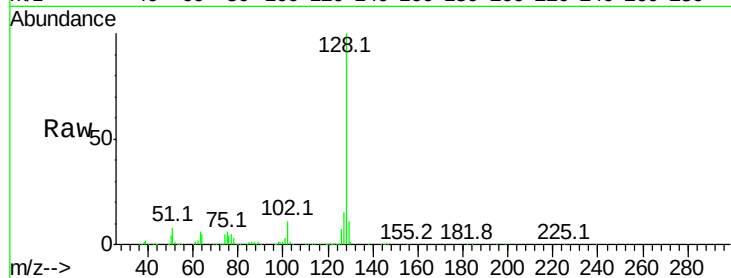
MSVOA_L

ClientSampleId :

VL0711ABS02

Tgt Ion:128 Resp: 3173426

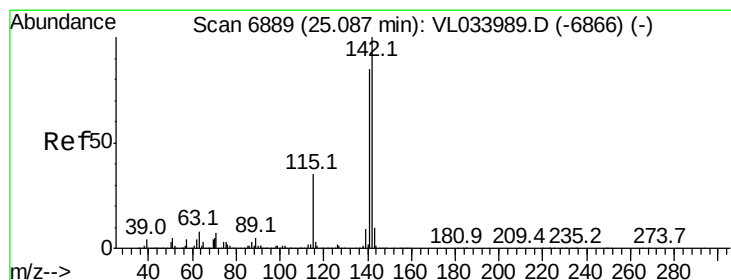
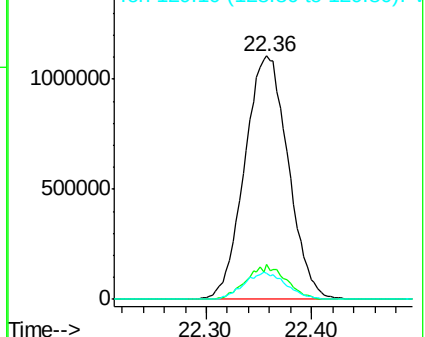
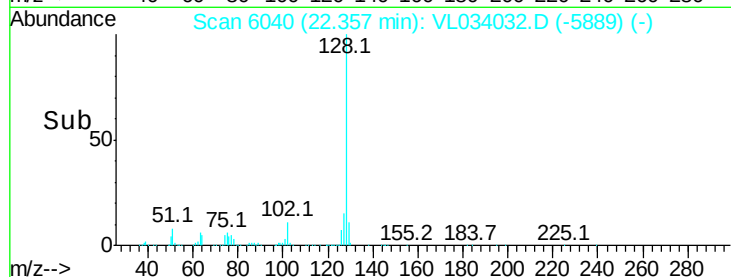
Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.6	15.8
129	10.5	8.3	12.5



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: 3.806 ppbv

RT: 25.08 min Scan# 6886

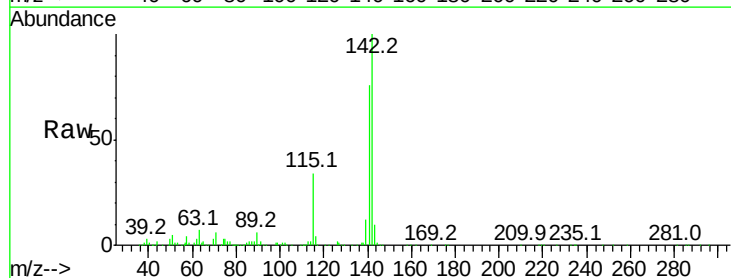
Delta R.T. -0.01 min

Lab File: VL034032.D

Acq: 12 Jul 2019 8:51

Tgt Ion:142 Resp: 593456

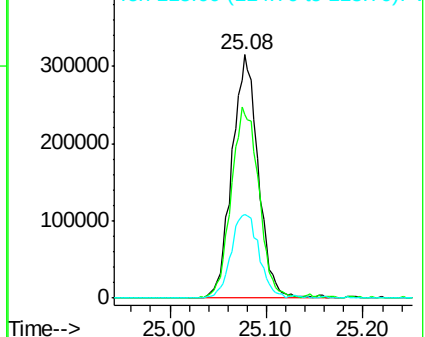
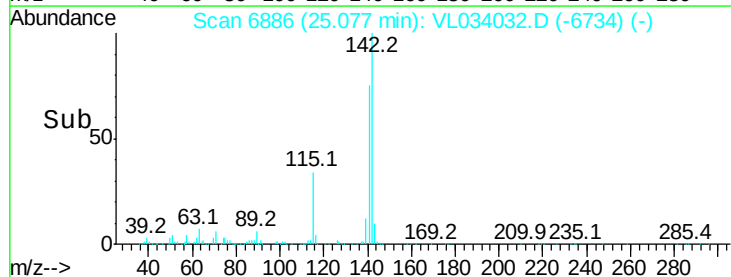
Ion	Ratio	Lower	Upper
142	100		
141	82.0	68.2	102.2
115	36.8	29.9	44.9

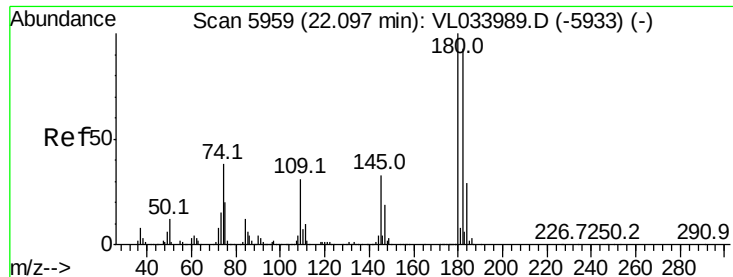


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

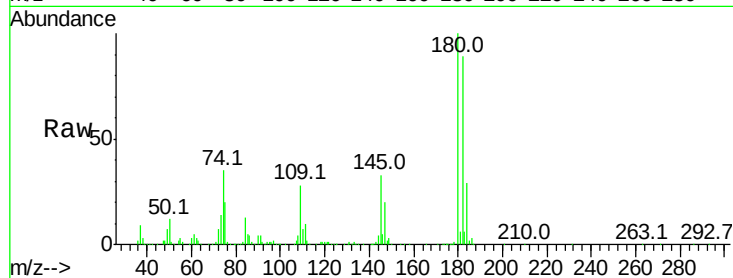




#81
 1,2,4-Trichlorobenzene
 Concen: 6.756 ppbv
 RT: 22.08 min Scan# 5954
 Delta R.T. -0.02 min
 Lab File: VL034032.D
 Acq: 12 Jul 2019 8:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS02

Tgt Ion:180 Resp: 1859316
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.6 114.8
 184 30.9 24.6 36.8



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

