

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
 Data File : VL033050.D
 Acq On : 21 Dec 2018 11:49
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 05:37:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	927244	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	2292914	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2769574	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1735358	8.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1230050	9.937	ppbv 96
3) Chlorodifluoromethane	3.02	51	1041239	14.827	ppbv 100
4) Chloromethane	3.17	50	548286	13.411	ppbv 96
5) Vinyl Chloride	3.30	62	574126	13.802	ppbv 98
6) Bromomethane	3.52	94	411687	15.823	ppbv 97
7) Chloroethane	3.61	64	225149	15.101	ppbv 97
8) Dichlorotetrafluoroethane	3.23	85	1492441	14.508	ppbv 100
9) Propene	3.04	41	387105	13.941	ppbv 99
10) Heptane	8.26	43	1140996	10.939	ppbv 100
11) Trichlorofluoromethane	4.01	101	1793644	15.380	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1195030	12.010	ppbv 99
13) Ethanol	3.65	45	105141	10.997	ppbv 94
14) Bromoethene	3.80	108	523712	15.853	ppbv 100
15) Acetone	3.91	43	1117812	14.045	ppbv 100
16) 1,3-Butadiene	3.37	39	466798	14.783	ppbv 94
17) tert-Butyl alcohol	4.36	59	318008	15.694	ppbv # 81
18) 1,1-Dichloroethene	4.36	96	540023	13.858	ppbv 98
19) Isopropyl Alcohol	4.03	45	861146	17.229	ppbv 99
20) Methylene Chloride	4.42	84	466385	11.990	ppbv 98
21) Allyl Chloride	4.49	41	833403	12.849	ppbv 100
22) trans-1,2-Dichloroethene	4.98	96	534923	11.061	ppbv 98
23) Vinyl Acetate	5.17	43	1598699	11.864	ppbv 99
24) 1,1-Dichloroethane	5.10	63	1290664	11.015	ppbv 99
25) Ethyl Acetate	5.78	43	2009495	10.688	ppbv 100
26) Hexane	5.79	57	915816	10.551	ppbv 98
27) Carbon Disulfide	4.63	76	1340668	12.353	ppbv 100
28) Methyl tert-Butyl Ether	5.12	73	1569762	12.041	ppbv 99
29) Chloroform	5.86	83	1604885	10.362	ppbv 97
30) Cyclohexane	7.26	84	790652	10.990	ppbv 99
31) cis-1,2-Dichloroethene	5.65	61	961549	12.072	ppbv 97
32) 1,1,1-Trichloroethane	6.63	97	1709680	10.433	ppbv 100
34) 2-Butanone	5.34	43	1310612	13.122	ppbv 100
35) Carbon Tetrachloride	7.15	117	1833563	10.174	ppbv 99
36) Benzene	7.02	78	1857660	11.015	ppbv 98
37) 1,2-Dichloroethane	6.43	62	1269338	11.055	ppbv 100
38) Trichloroethene	7.98	130	800548	11.406	ppbv 97
39) 1,2-Dichloropropane	7.75	63	679274	10.620	ppbv 95
40) 1,4-Dioxane	7.97	88	254452	10.801	ppbv # 95
41) Tetrahydrofuran	6.16	42	683985	11.011	ppbv 99
42) Bromodichloromethane	7.93	83	1748387	10.990	ppbv 99
43) Methyl Methacrylate	8.15	69	765294	12.246	ppbv 98

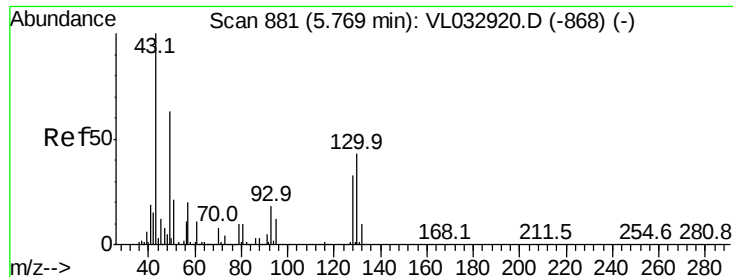
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122018\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 07 09:35:17 2018
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	3164301	11.053	ppbv	100
45) t-1,3-Dichloropropene	9.43	75	1048397	13.683	ppbv	100
46) cis-1,3-Dichloropropene	8.85	75	1197011	12.764	ppbv	95
47) 1,1,2-Trichloroethane	9.63	97	796413	11.313	ppbv	98
48) Dibromochloromethane	10.47	129	1489519	11.278	ppbv	100
49) Bromoform	13.22	173	1288086	11.858	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	1818089	11.383	ppbv	100
51) 2-Hexanone	10.28	43	1358335	12.541	ppbv	99
52) Tetrachloroethene	11.39	164	688502	11.223	ppbv	94
53) Toluene	9.96	91	2218173	12.401	ppbv	100
54) 1,2-Dibromoethane	10.78	107	1257259	11.432	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.29	131	1074125	8.699	ppbv	97
57) Chlorobenzene	12.32	112	1719544	8.596	ppbv	99
58) Ethyl Benzene	12.88	91	3048716	10.319	ppbv	100
59) m/p-Xylene	13.16	91	2440848	9.112	ppbv #	100
60) o-Xylene	13.87	91	2580807	9.541	ppbv	99
61) Styrene	13.70	104	1863146	10.354	ppbv	100
62) Isopropylbenzene	14.84	105	3616069	9.581	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.86	83	1765406	8.405	ppbv	99
64) n-propylbenzene	15.74	120	921603	9.402	ppbv	98
65) tert-Butylbenzene	16.92	119	3359344	9.601	ppbv	99
66) Benzyl Chloride	17.17	91	2030652	10.471	ppbv	99
67) sec-Butylbenzene	17.48	105	4715825	9.142	ppbv	100
69) p-Isopropyltoluene	17.83	119	3964323	9.483	ppbv	99
70) n-Butylbenzene	18.73	91	4048309	10.526	ppbv	100
71) 2-Chlorotoluene	15.63	91	2712257	9.664	ppbv	99
72) 4-Ethyltoluene	16.02	105	2980667	9.870	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	2894011	9.816	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3045944	9.150	ppbv	99
75) 1,3-Dichlorobenzene	17.18	146	1717891	8.763	ppbv	99
76) 1,4-Dichlorobenzene	17.33	146	1689985	9.239	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1705396	9.315	ppbv	99
78) Hexachloro-1,3-Butadiene	23.56	225	1102324	10.949	ppbv	99
79) Naphthalene	22.43	128	2407425	11.200	ppbv	99
80) Naphthalene, 2-methyl-	25.13	142	616509	13.424	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1170945	10.272	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampleId :

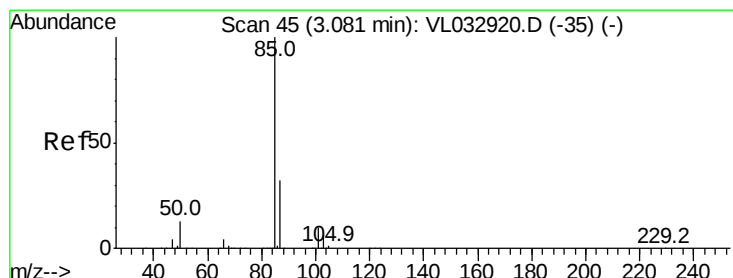
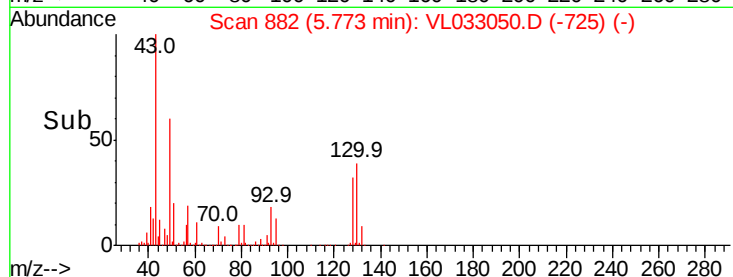
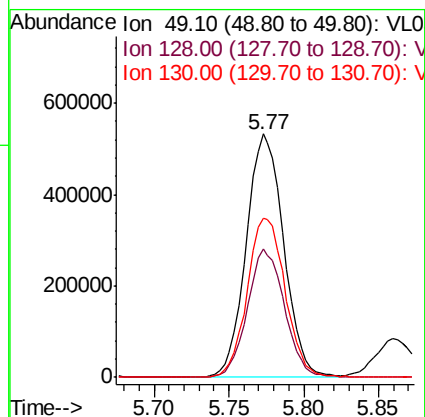
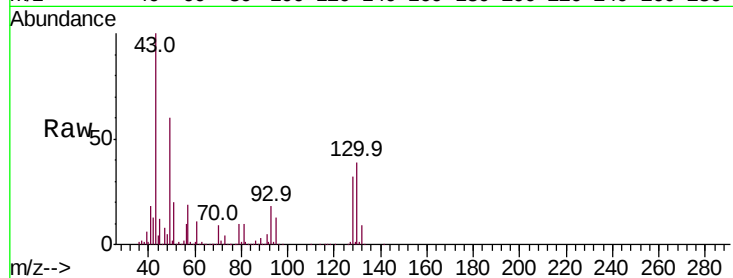
Tot Ion: 49 Resp: 927244

Ion Ratio Lower Upper

49 100

128 52.4 26.3 78.8

130 66.6 33.9 101.7



#2

Dichlorodifluoromethane

Concen: 9.937 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL033050.D

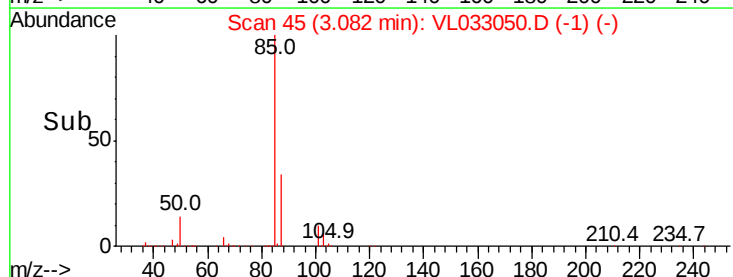
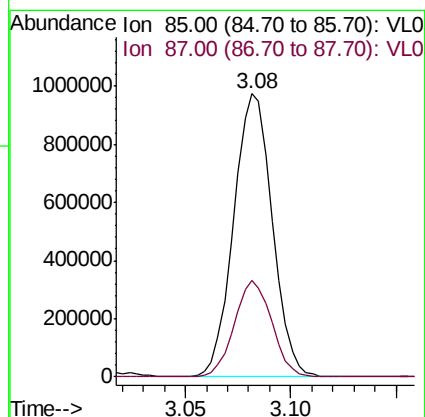
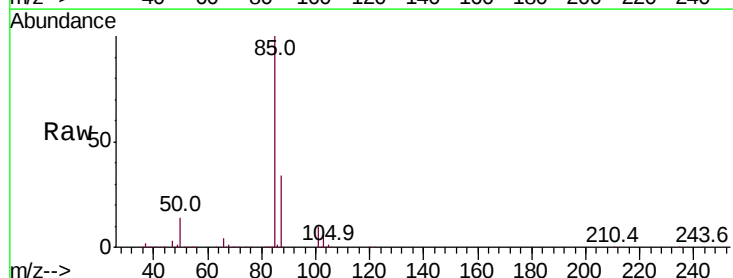
Acq: 21 Dec 2018 11:49

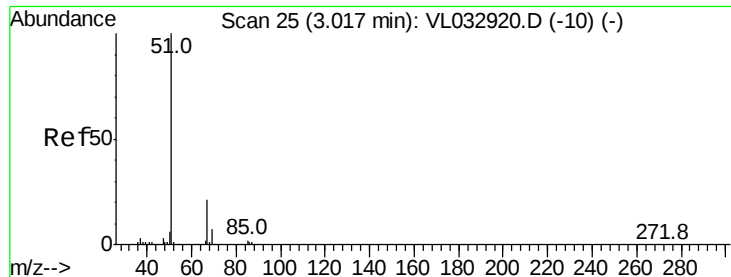
Tgt Ion: 85 Resp: 1230050

Ion Ratio Lower Upper

85 100

87 34.1 25.7 38.5





#3

Chlorodifluoromethane

Concen: 14.827 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

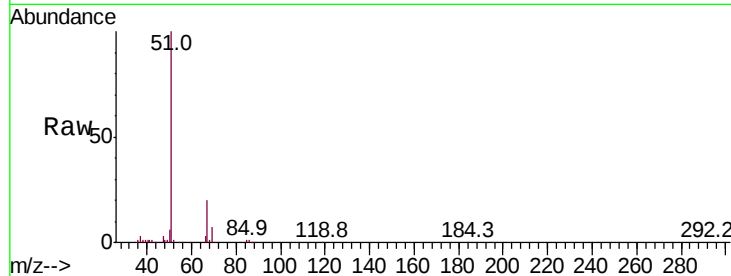
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 51 Resp: 1041239

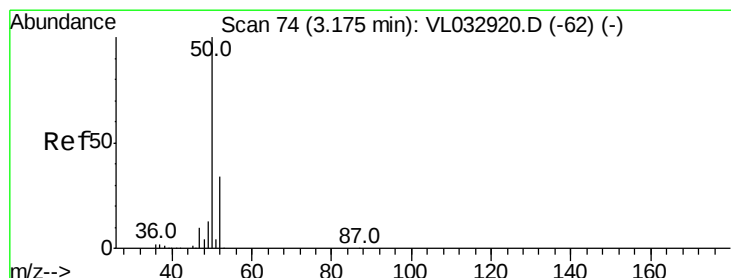
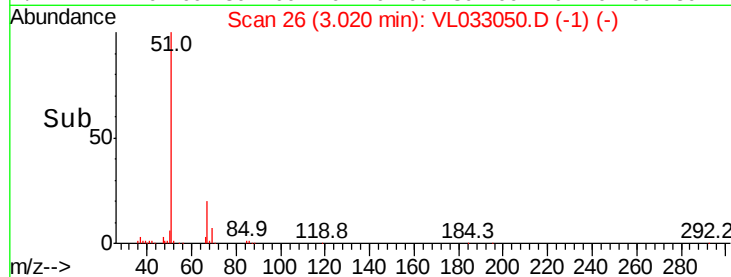
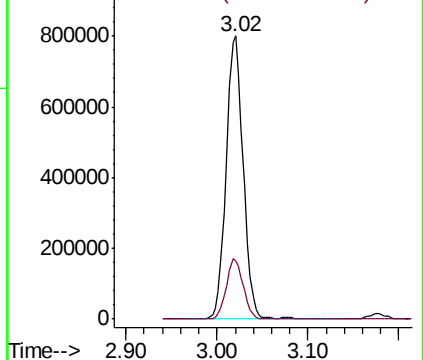
Ion Ratio Lower Upper

51 100

67 21.0 16.8 25.2



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



#4

Chloromethane

Concen: 13.411 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL033050.D

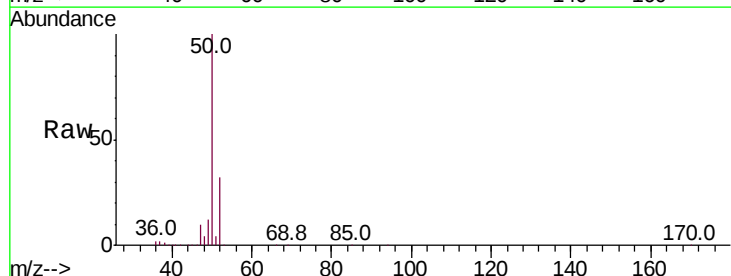
Acq: 21 Dec 2018 11:49

Tgt Ion: 50 Resp: 548286

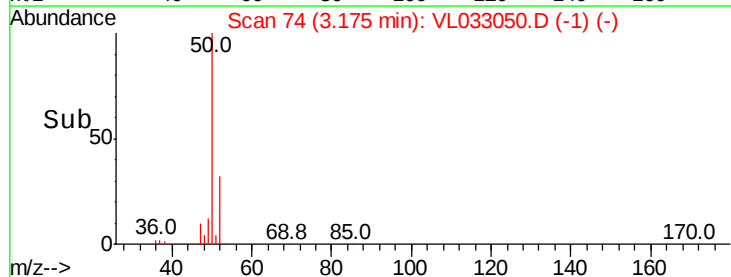
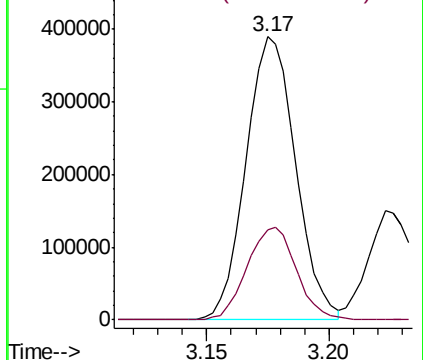
Ion Ratio Lower Upper

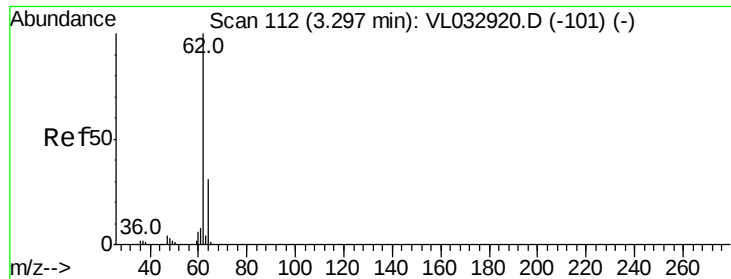
50 100

52 32.0 27.3 40.9



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





#5

Vinyl Chloride

Concen: 13.802 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

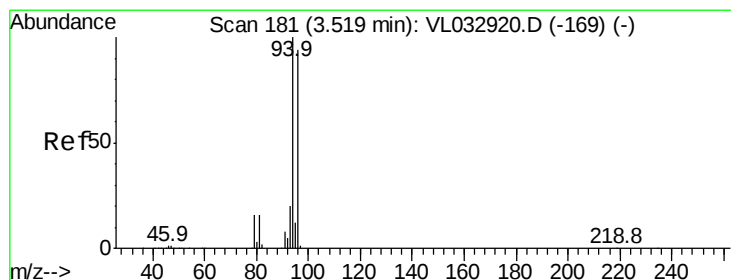
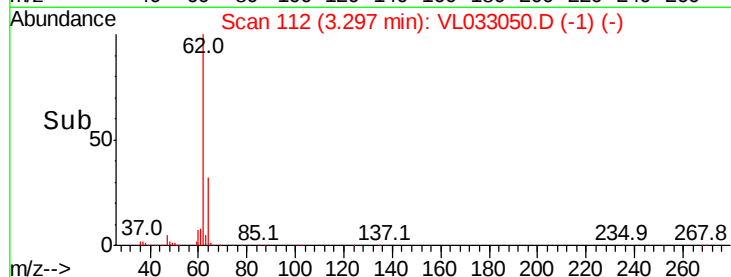
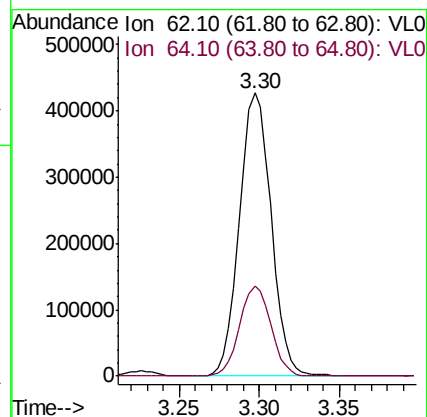
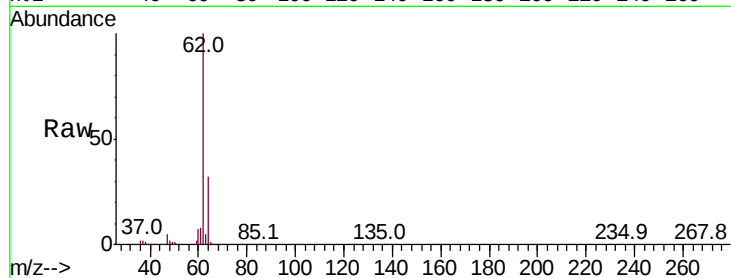
ClientSampleId :

Tot Ion: 62 Resp: 574126

Ion Ratio Lower Upper

62 100

64 32.0 24.8 37.2



#6

Bromomethane

Concen: 15.823 ppbv

RT: 3.52 min Scan# 182

Delta R.T. 0.00 min

Lab File: VL033050.D

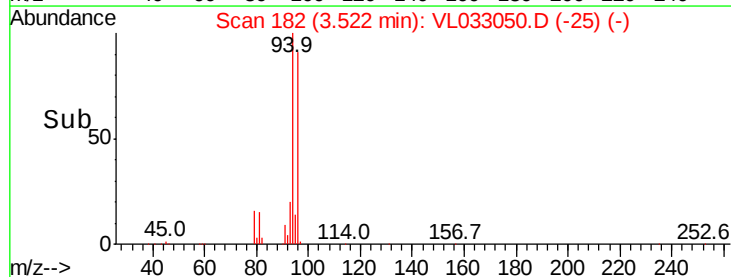
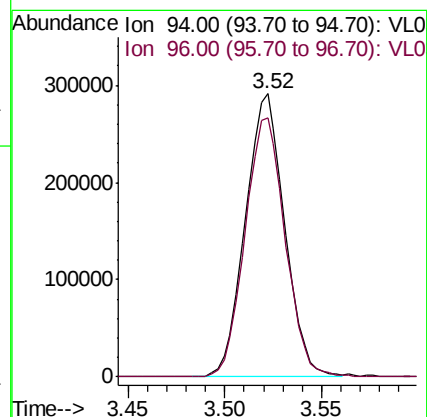
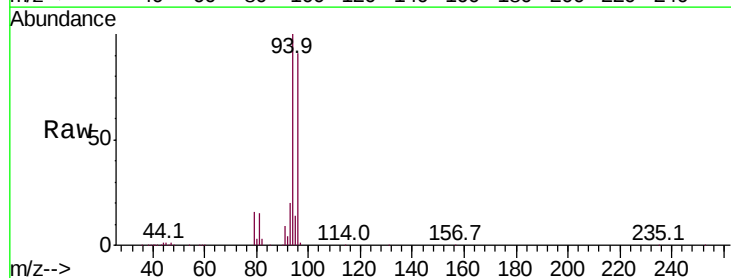
Acq: 21 Dec 2018 11:49

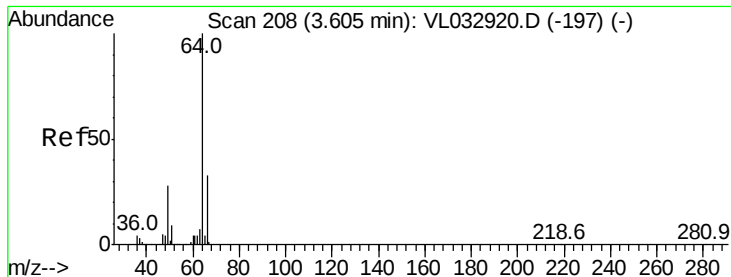
Tgt Ion: 94 Resp: 411687

Ion Ratio Lower Upper

94 100

96 91.0 75.5 113.3





#7

Chloroethane

Concen: 15.101 ppbv

RT: 3.61 min Scan# 209

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

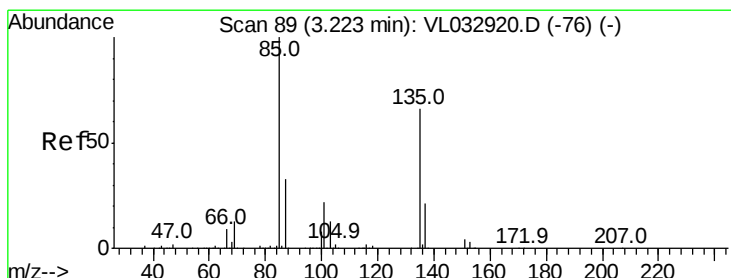
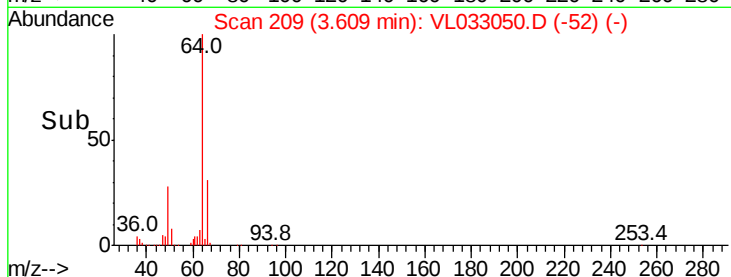
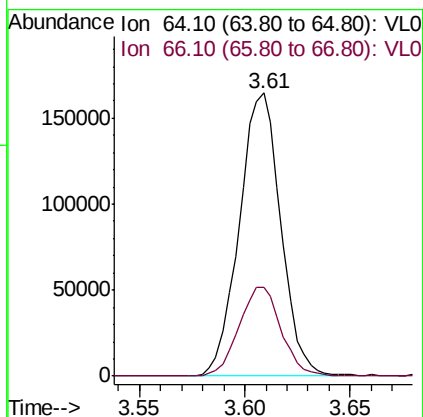
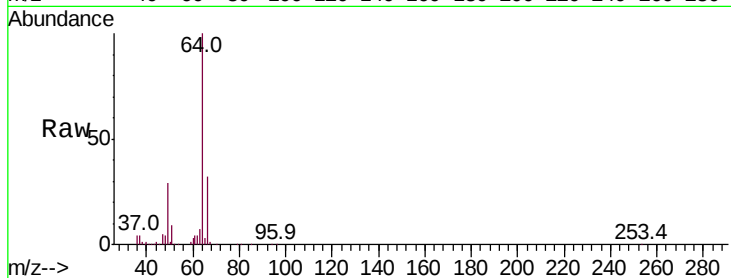
ClientSampleId :

Tot Ion: 64 Resp: 225149

Ion Ratio Lower Upper

64 100

66 31.5 26.6 40.0



#8

Dichlorotetrafluoroethane

Concen: 14.508 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.00 min

Lab File: VL033050.D

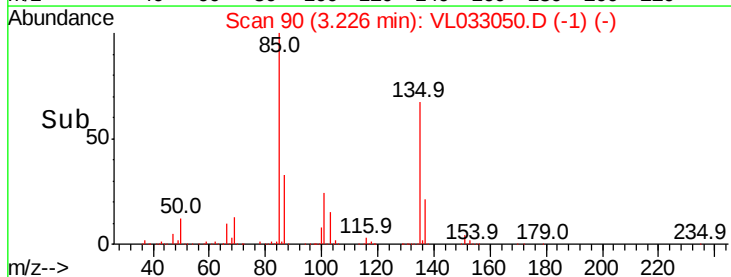
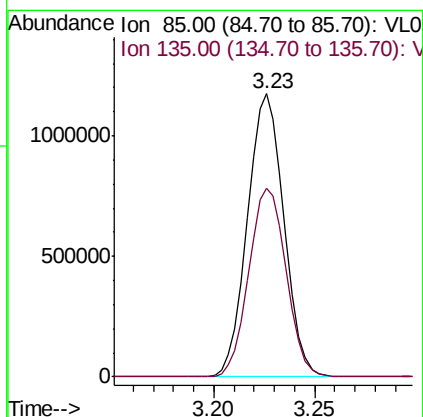
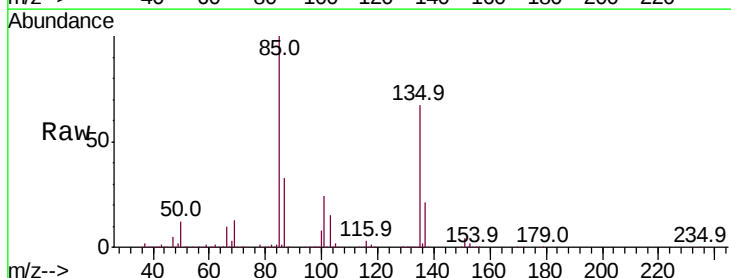
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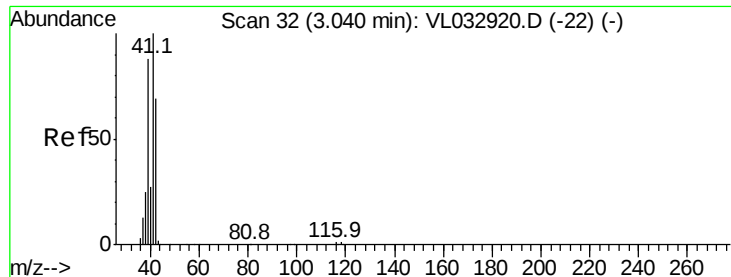
Tgt Ion: 85 Resp: 1492441

Ion Ratio Lower Upper

85 100

135 68.4 54.5 81.7





#9

Propene

Concen: 13.941 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

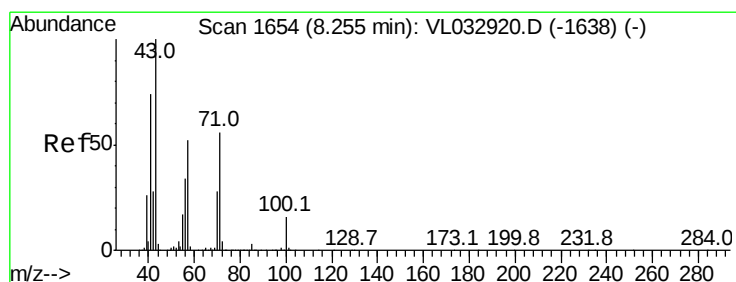
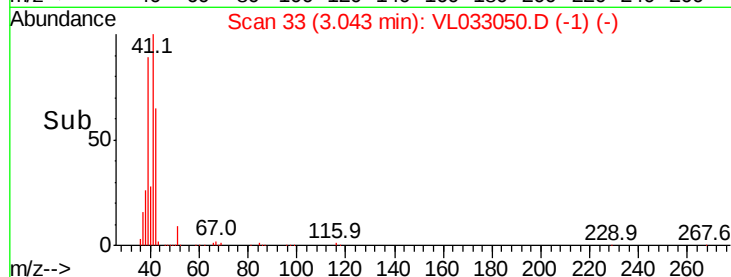
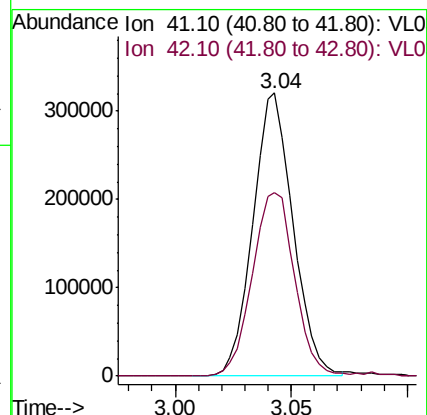
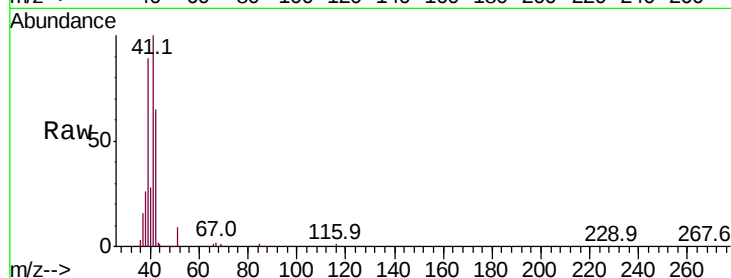
ClientSampleId :

Tot Ion: 41 Resp: 387105

Ion Ratio Lower Upper

41 100

42 69.4 56.2 84.2



#10

Heptane

Concen: 10.939 ppbv

RT: 8.26 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VL033050.D

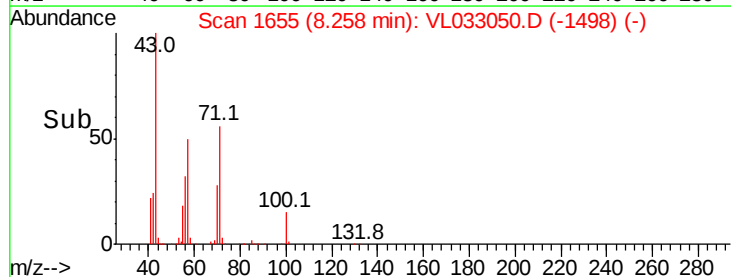
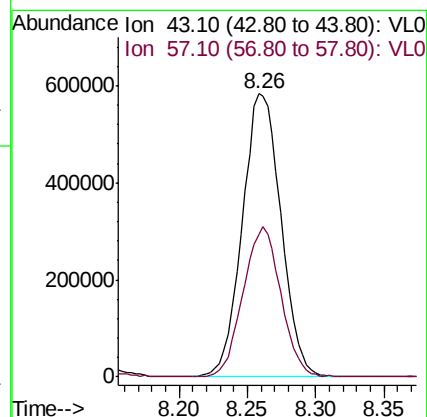
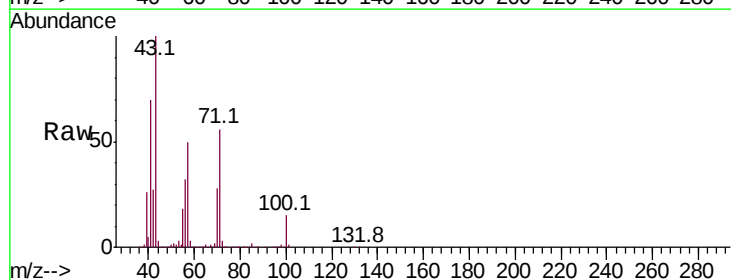
Acq: 21 Dec 2018 11:49

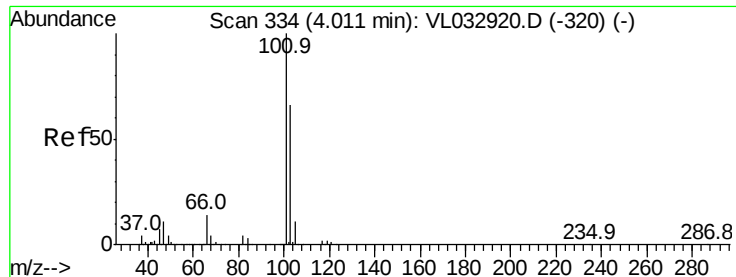
Tgt Ion: 43 Resp: 1140996

Ion Ratio Lower Upper

43 100

57 52.0 41.8 62.6

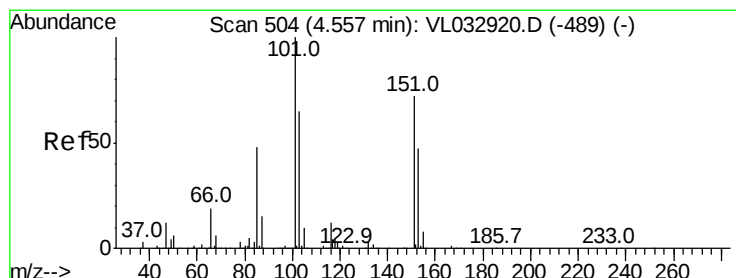
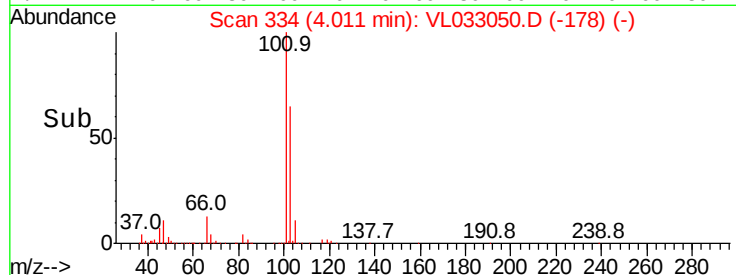
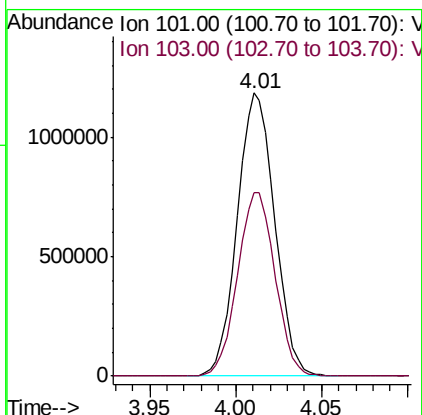
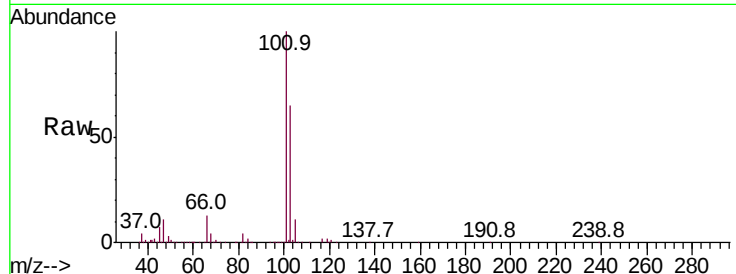




#11
 Trichlorofluoromethane
 Concen: 15.380 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

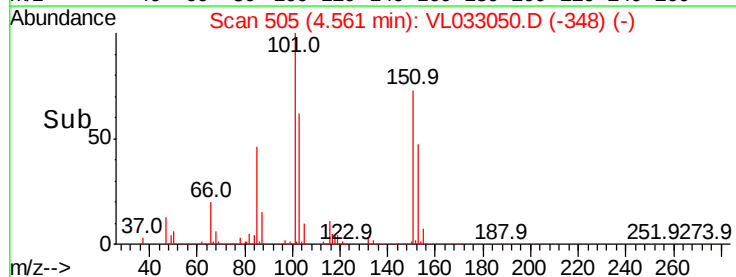
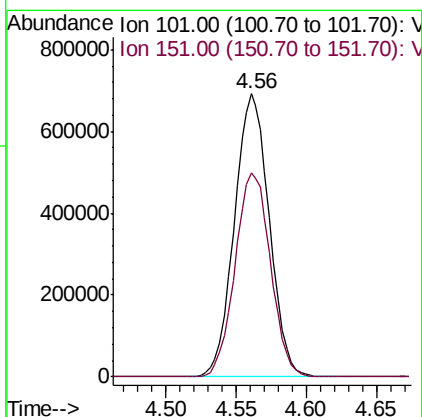
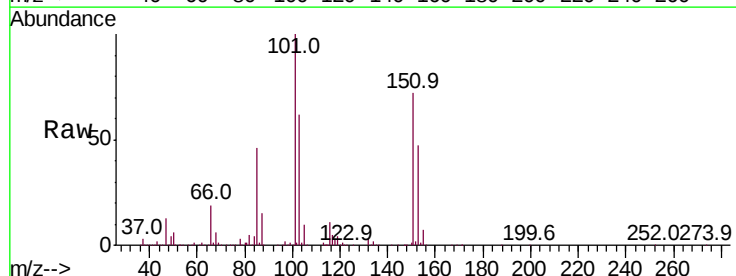
Instrument :
 MSVOA_L
 ClientSampleId :

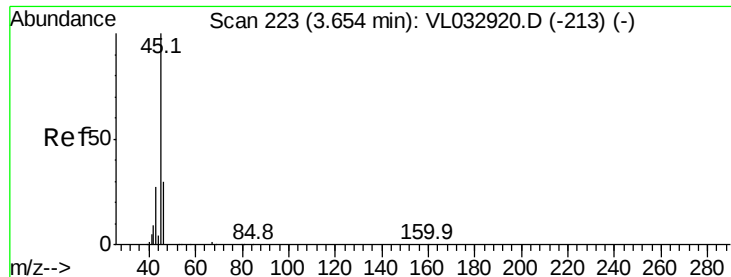
Tot Ion:101 Resp: 1793644
 Ion Ratio Lower Upper
 101 100
 103 64.9 52.7 79.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.010 ppbv
 RT: 4.56 min Scan# 505
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

Tgt Ion:101 Resp: 1195030
 Ion Ratio Lower Upper
 101 100
 151 73.6 59.3 88.9





#13

Ethanol

Concen: 10.997 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

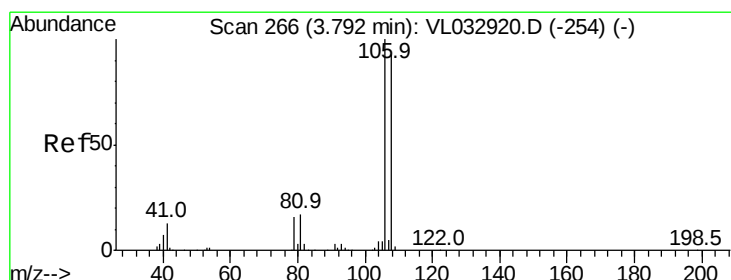
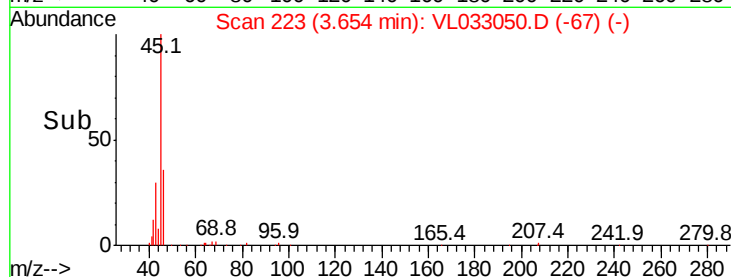
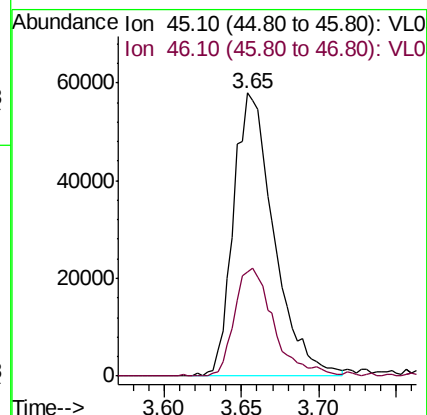
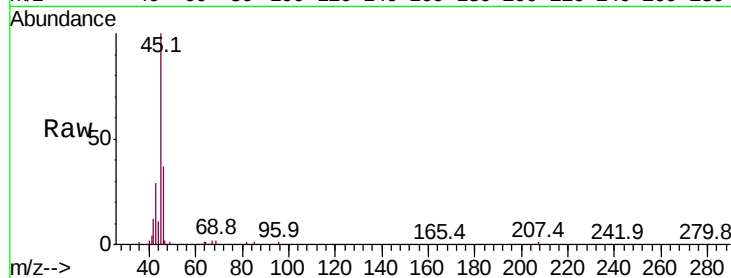
ClientSampleId :

Tot Ion: 45 Resp: 105141

Ion Ratio Lower Upper

45 100

46 38.1 13.8 55.4



#14

Bromoethene

Concen: 15.853 ppbv

RT: 3.80 min Scan# 267

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

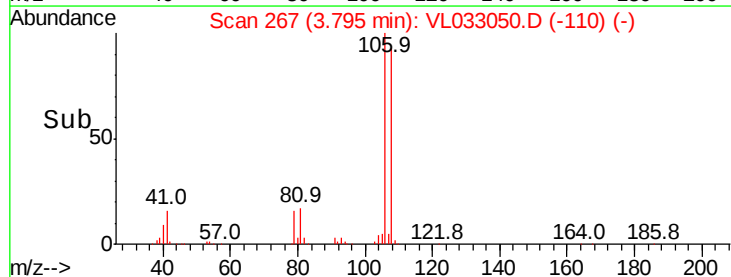
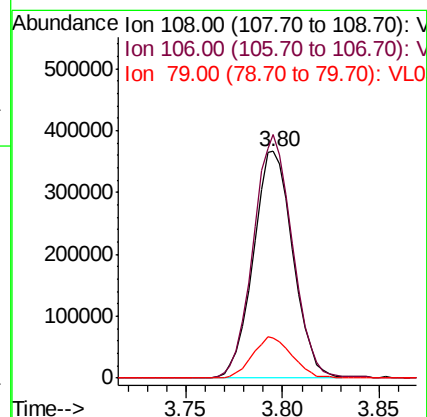
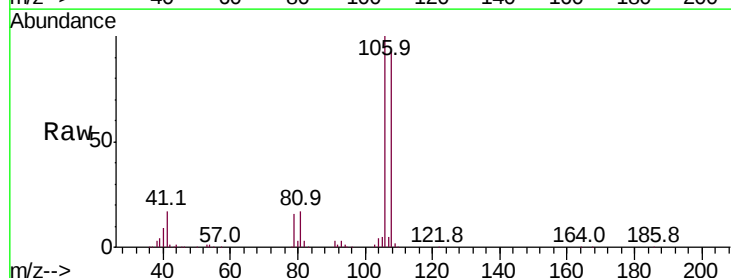
Tgt Ion: 108 Resp: 523712

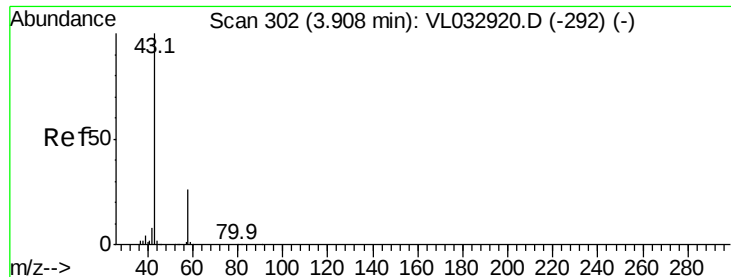
Ion Ratio Lower Upper

108 100

106 106.8 85.4 128.2

79 18.1 14.6 21.8





#15

Acetone

Concen: 14.045 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

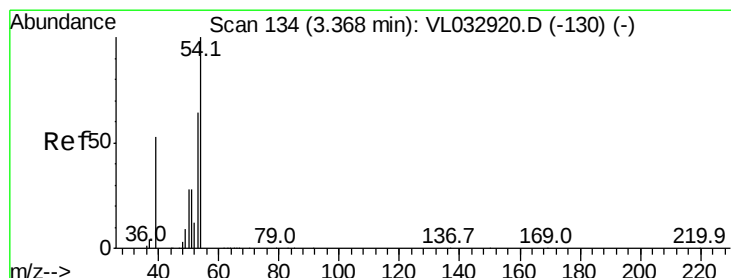
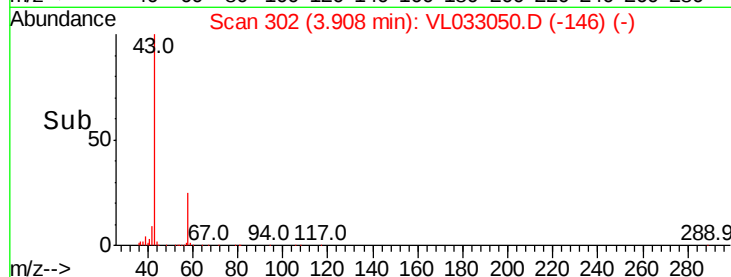
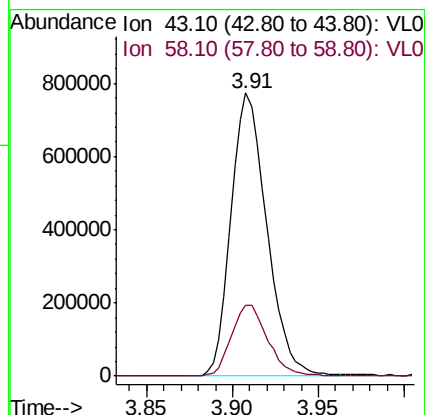
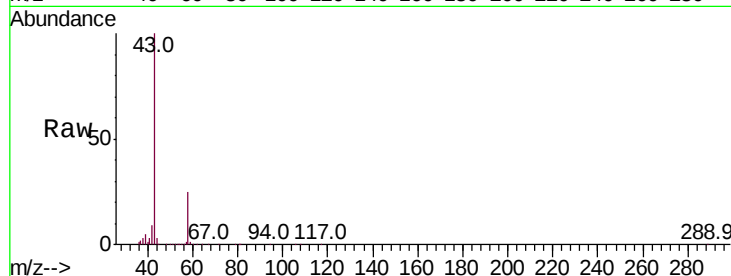
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1117812

Ion Ratio Lower Upper

43 100

58 25.7 20.6 30.8



#16

1,3-Butadiene

Concen: 14.783 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL033050.D

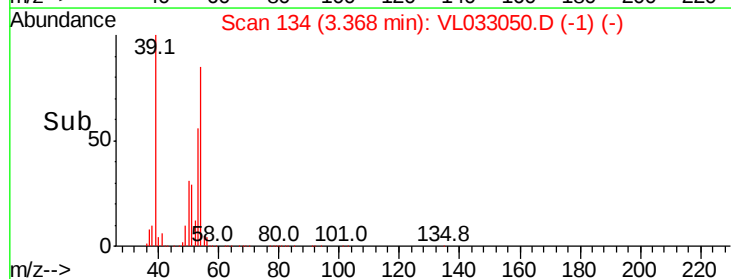
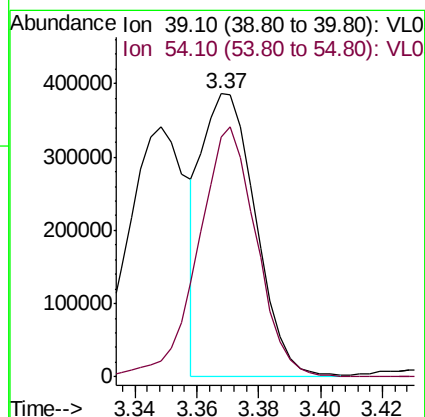
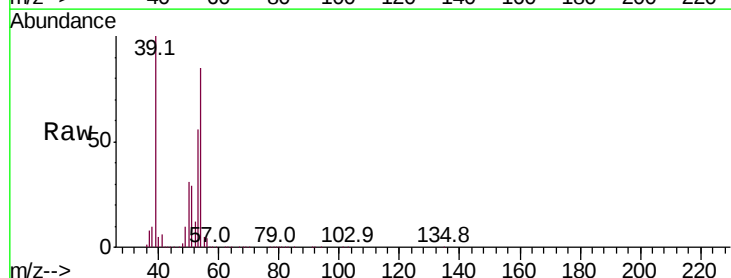
Acq: 21 Dec 2018 11:49

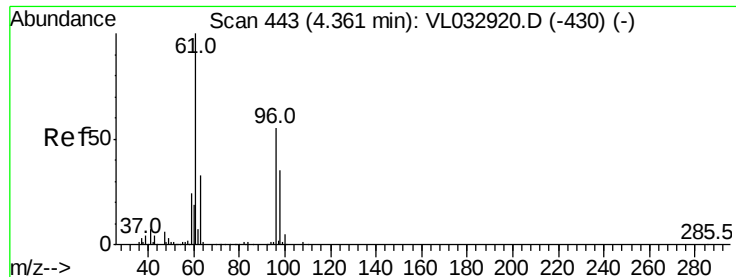
Tgt Ion: 39 Resp: 466798

Ion Ratio Lower Upper

39 100

54 96.2 72.7 109.1



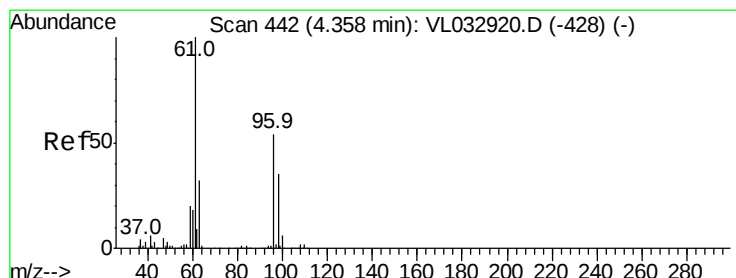
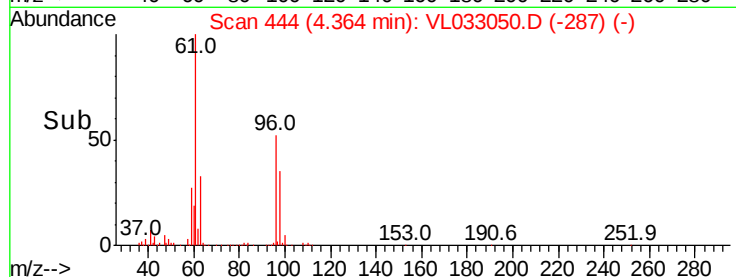
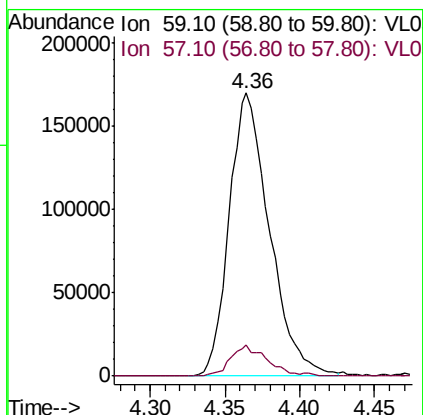
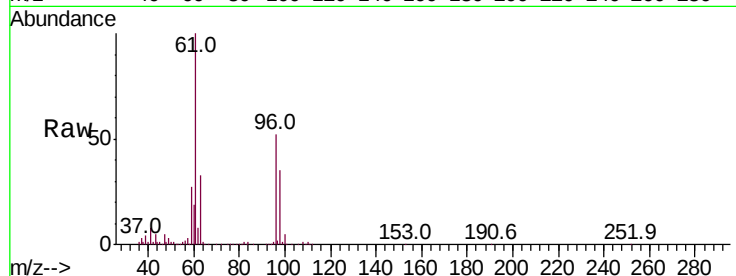


#17

tert-Butyl alcohol
Concen: 15.694 ppbv
RT: 4.36 min Scan# 444
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Instrument :
MSVOA_L
ClientSampleId :

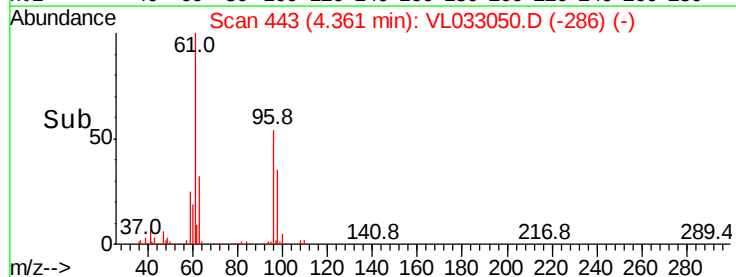
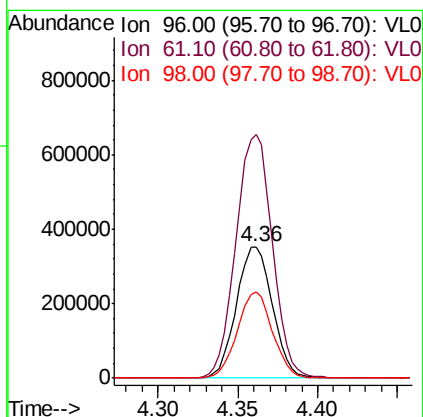
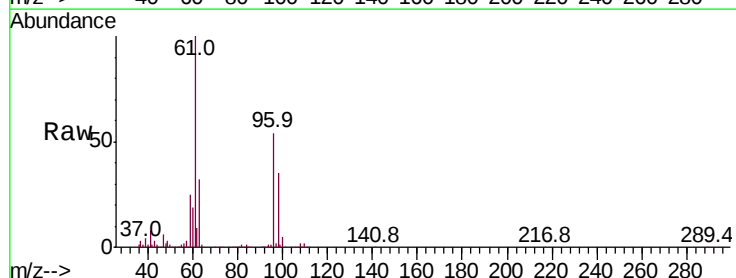
Tot Ion: 59 Resp: 318008
Ion Ratio Lower Upper
59 100
57 10.1 0.6 1.0#

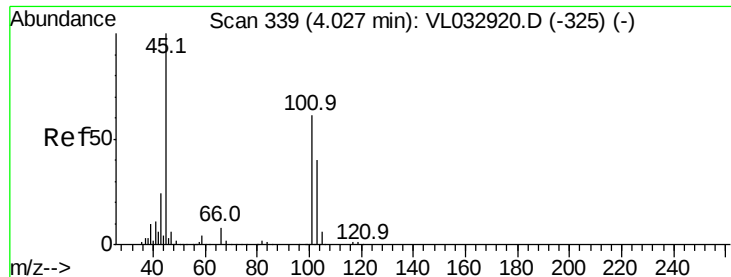


#18

1,1-Dichloroethene
Concen: 13.858 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Tgt Ion: 96 Resp: 540023
Ion Ratio Lower Upper
96 100
61 185.3 147.0 220.4
98 65.7 50.7 76.1



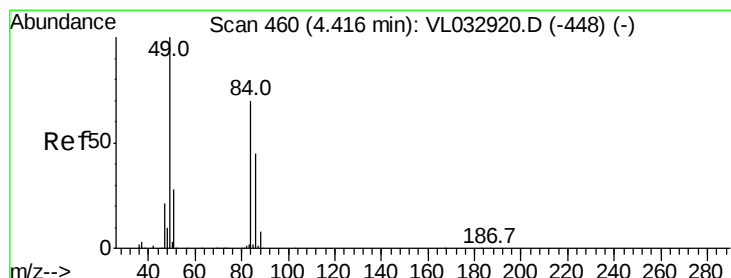
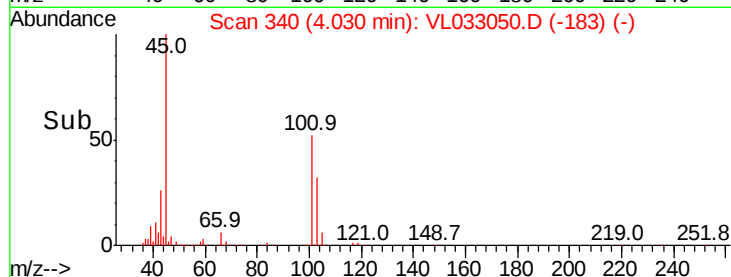
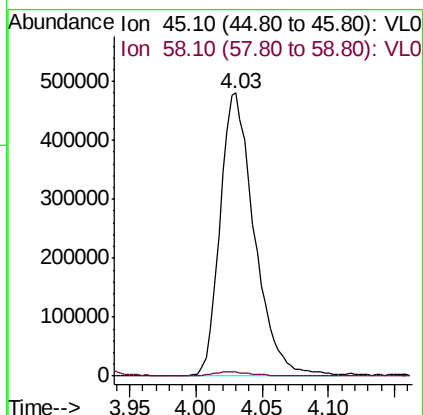
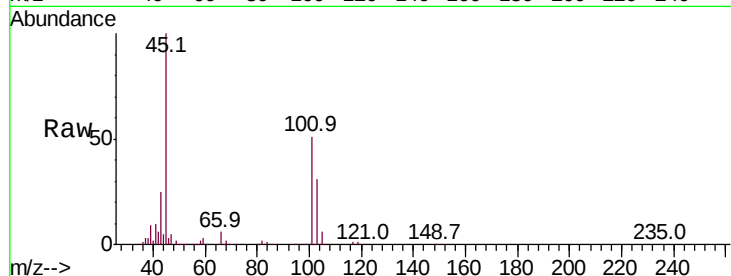


#19

Isopropyl Alcohol
 Concen: 17.229 ppbv
 RT: 4.03 min Scan# 340
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

Instrument :
 MSVOA_L
 ClientSampleId :

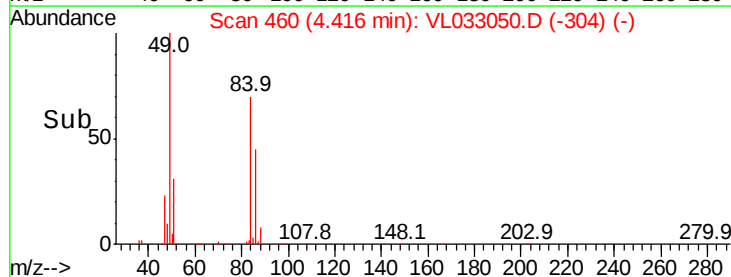
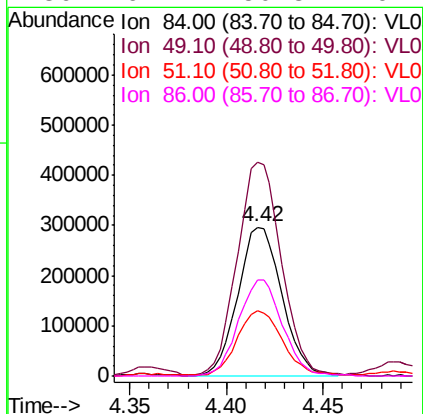
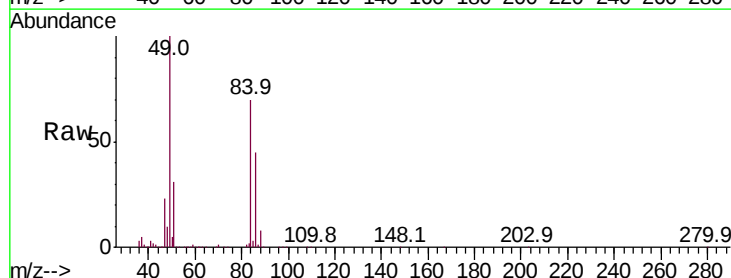
Tot Ion: 45 Resp: 861146
 Ion Ratio Lower Upper
 45 100
 58 1.6 1.4 2.2

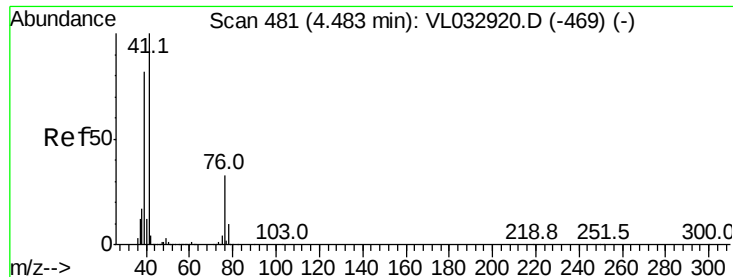


#20

Methylene Chloride
 Concen: 11.990 ppbv
 RT: 4.42 min Scan# 460
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

Tgt Ion: 84 Resp: 466385
 Ion Ratio Lower Upper
 84 100
 49 143.1 113.8 170.8
 51 43.4 31.8 47.8
 86 64.4 50.8 76.2





#21

Allvl Chloride

Concen: 12.849 ppbv

RT: 4.49 min Scan# 482

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :
MSVOA_L
ClientSampled :

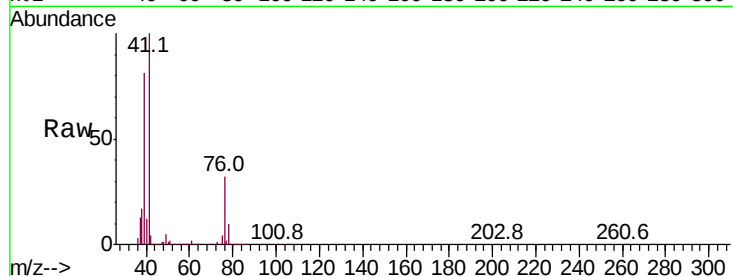
Tot Ion: 41 Resp: 833403

Ion Ratio Lower Upper

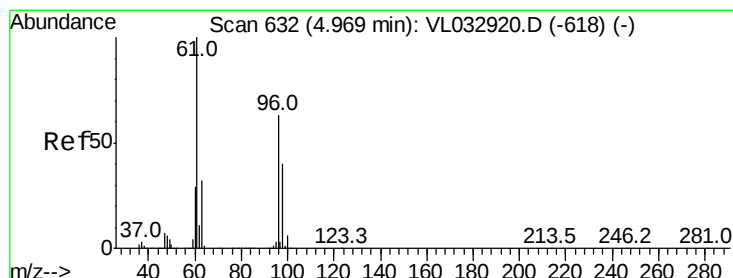
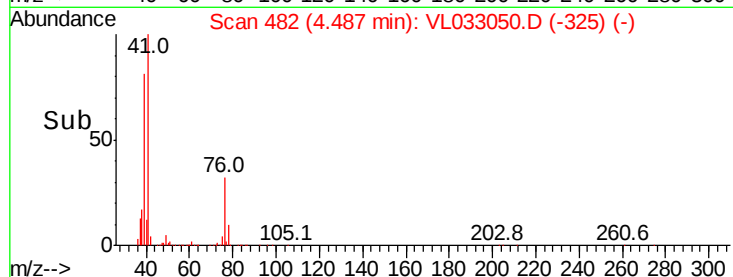
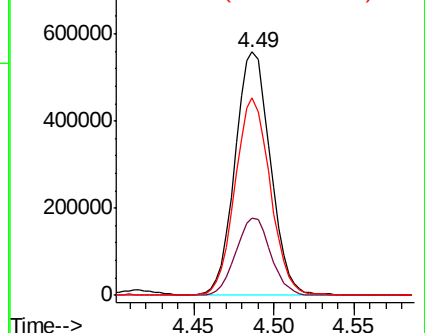
41 100

76 31.5 25.2 37.8

39 81.0 65.2 97.8



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 11.061 ppbv

RT: 4.98 min Scan# 634

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

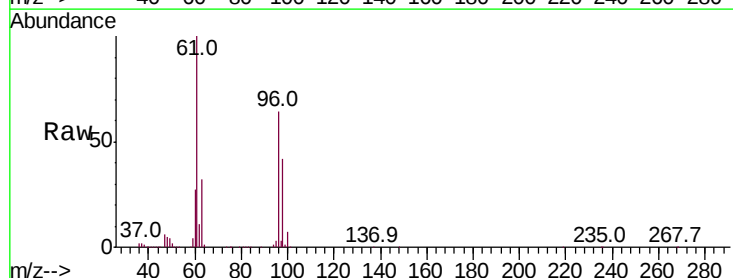
Tgt Ion: 96 Resp: 534923

Ion Ratio Lower Upper

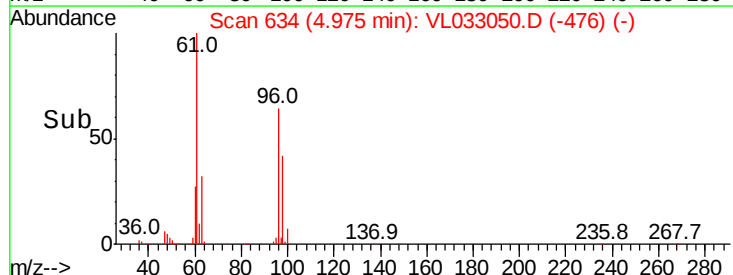
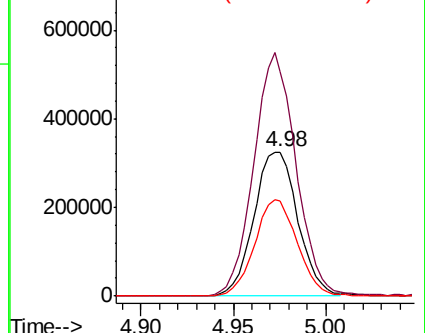
96 100

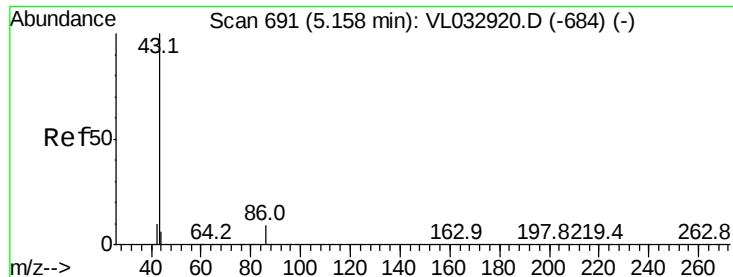
61 156.2 127.1 190.7

98 65.8 51.3 76.9



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





#23

Vinyl Acetate

Concen: 11.864 ppbv

RT: 5.17 min Scan# 693

Delta R.T. 0.01 min

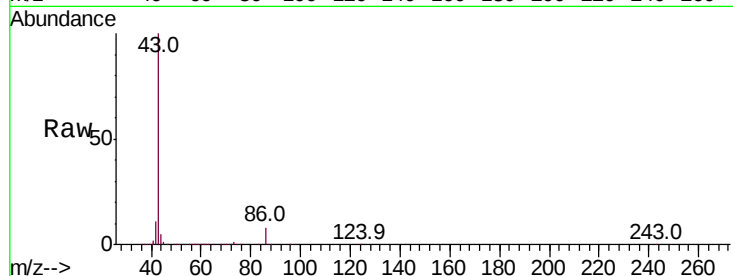
Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

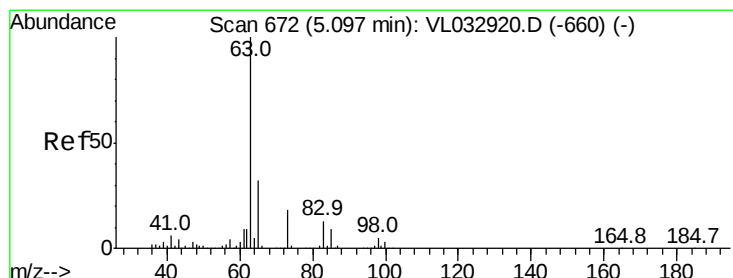
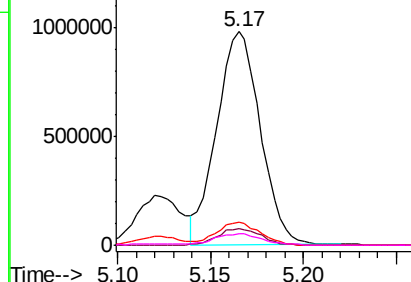
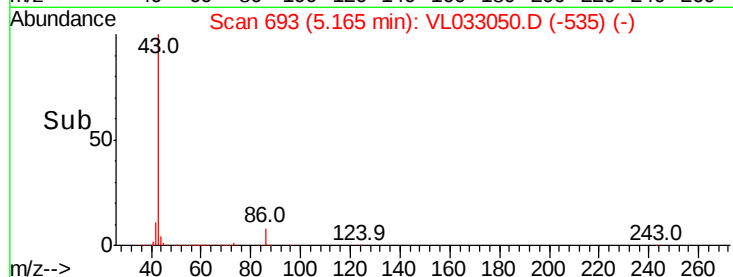
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 1598699

Ion	Ratio	Lower	Upper
43	100		
86	7.9	6.6	9.8
42	10.6	8.3	12.5
44	5.2	4.2	6.4



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 11.015 ppbv

RT: 5.10 min Scan# 674

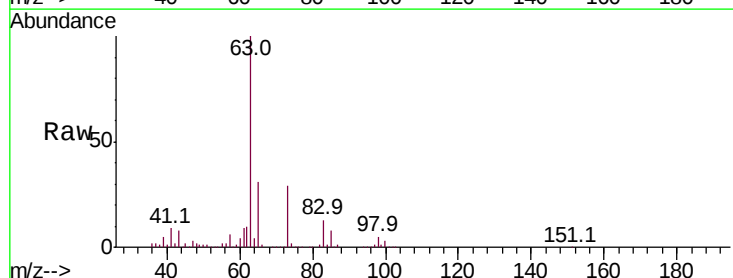
Delta R.T. 0.01 min

Lab File: VL033050.D

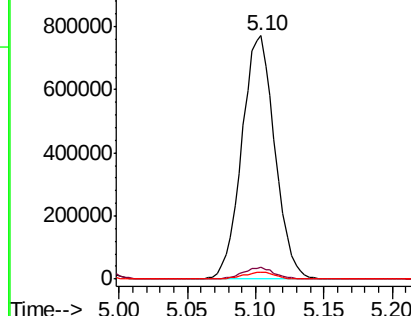
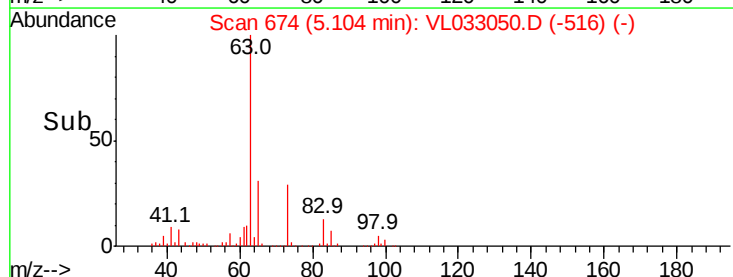
Acq: 21 Dec 2018 11:49

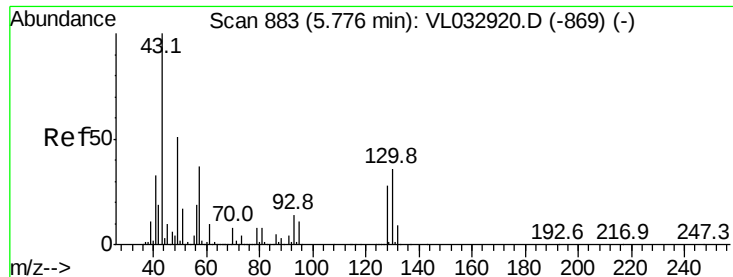
Tgt Ion: 63 Resp: 1290664

Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.5	7.5
100	2.9	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

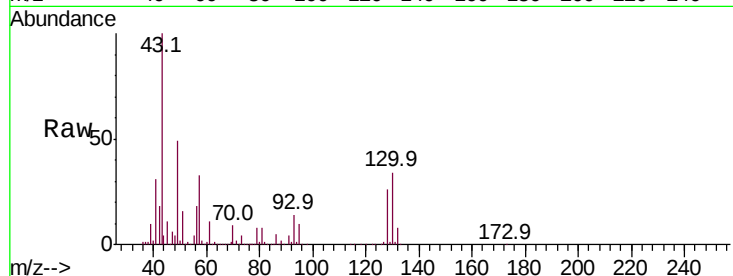




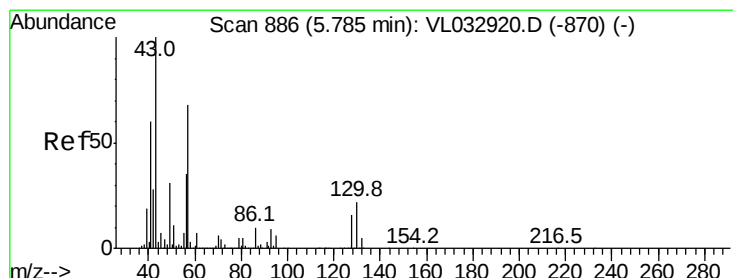
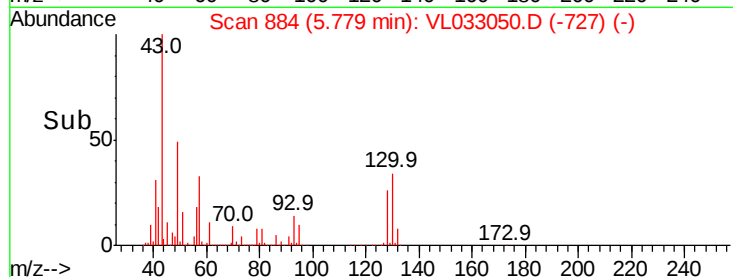
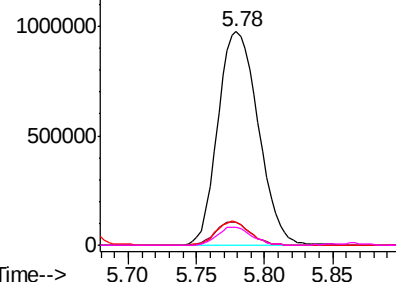
#25
Ethyl Acetate
Concen: 10.688 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Instrument :
MSVOA_L
ClientSampled :

Tot Ion:	43	Resp:	2009495
Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.6
61	9.6	7.4	11.2
70	7.3	5.7	8.5

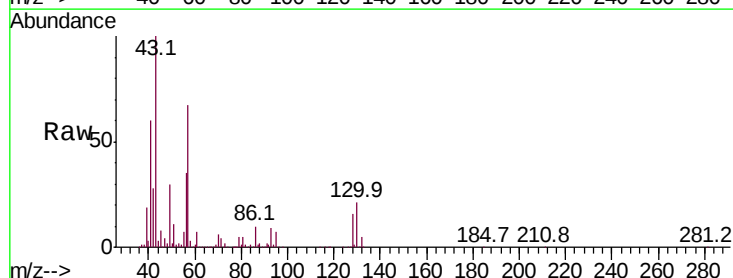


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

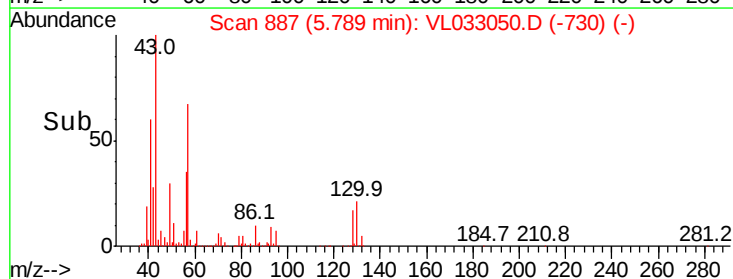
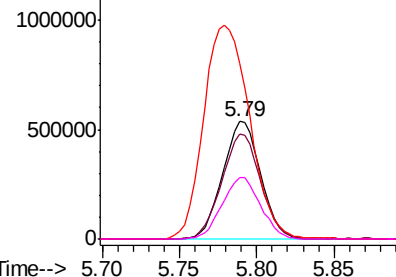


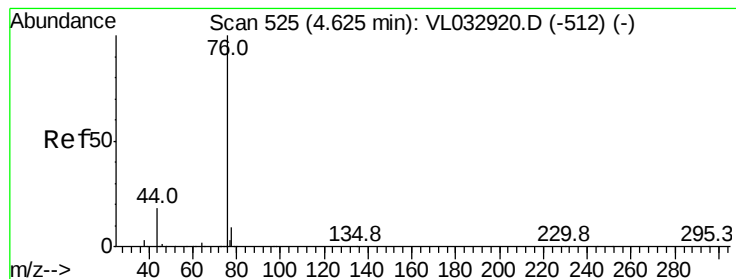
#26
Hexane
Concen: 10.551 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Tgt Ion:	57	Resp:	915816
Ion	Ratio	Lower	Upper
57	100		
41	91.4	72.2	108.2
43	220.2	171.9	257.9
56	53.3	42.2	63.2



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 12.353 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampled :

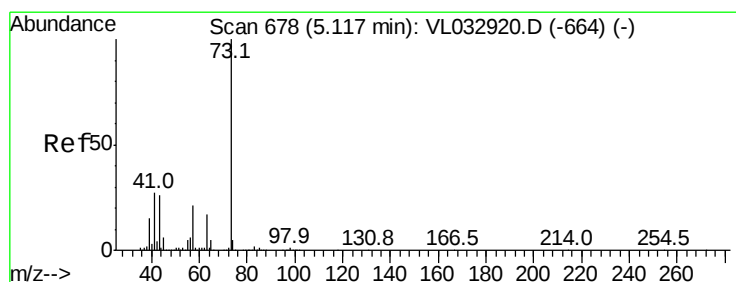
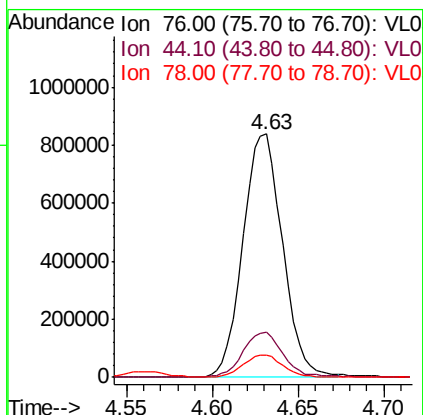
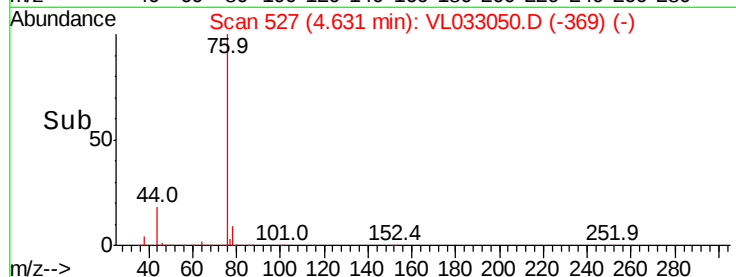
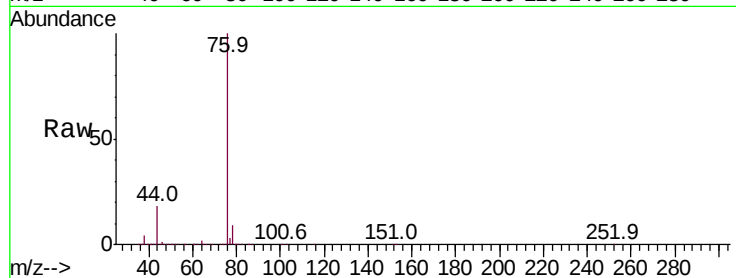
Tot Ion: 76 Resp: 1340668

Ion Ratio Lower Upper

76 100

44 18.4 14.7 22.1

78 9.4 7.4 11.2



#28

Methyl tert-Butyl Ether

Concen: 12.041 ppbv

RT: 5.12 min Scan# 680

Delta R.T. 0.01 min

Lab File: VL033050.D

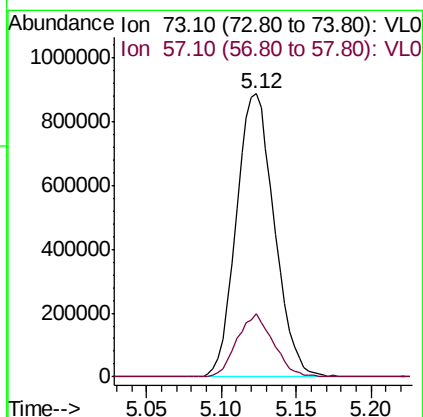
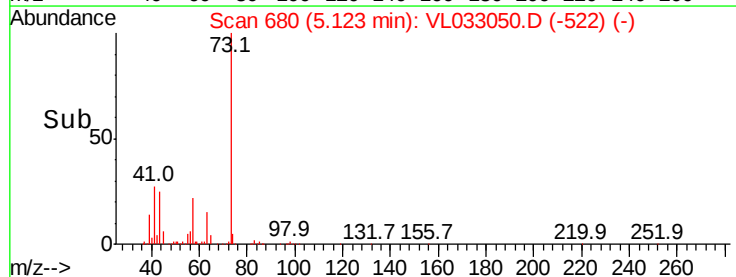
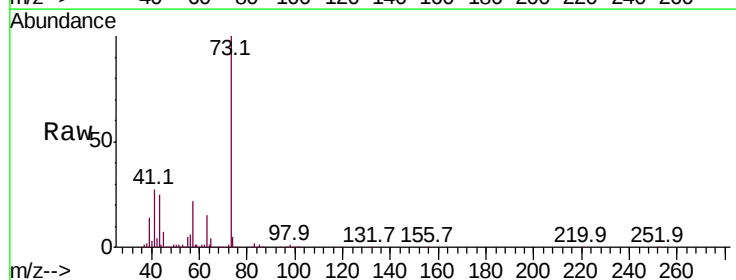
Acq: 21 Dec 2018 11:49

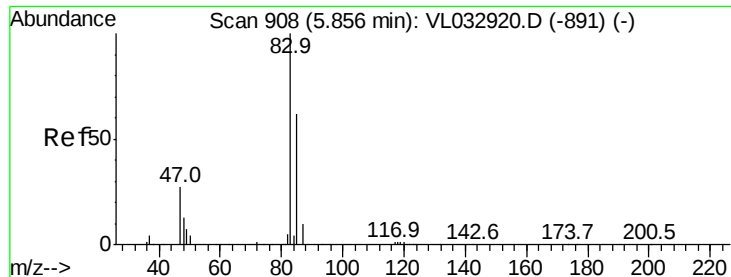
Tgt Ion: 73 Resp: 1569762

Ion Ratio Lower Upper

73 100

57 21.4 17.4 26.0

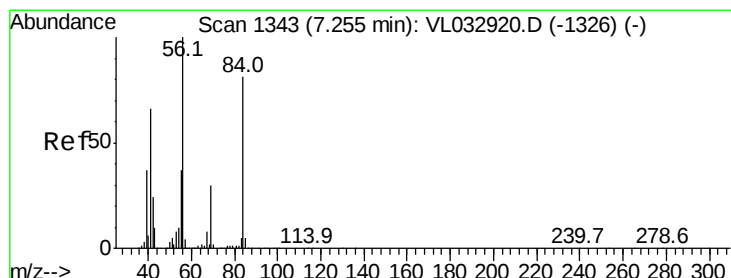
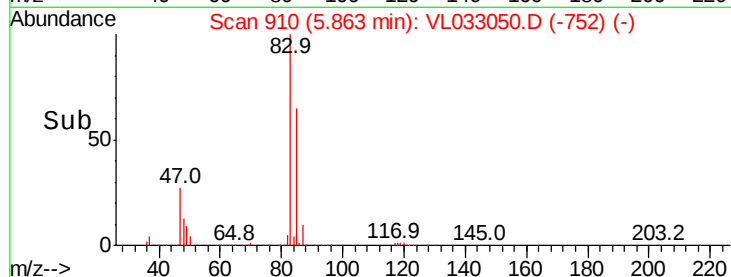
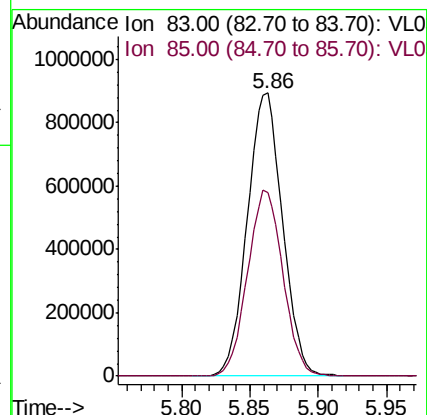
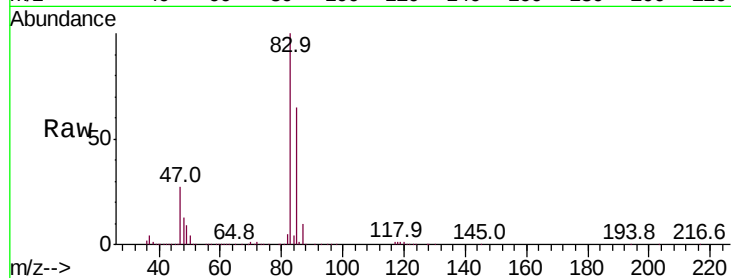




#29
Chloroform
Concen: 10.362 ppbv
RT: 5.86 min Scan# 910
Delta R.T. 0.01 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

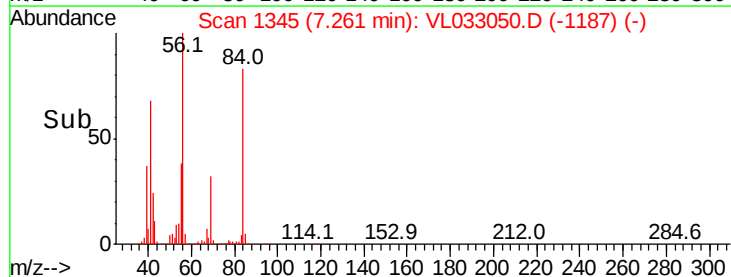
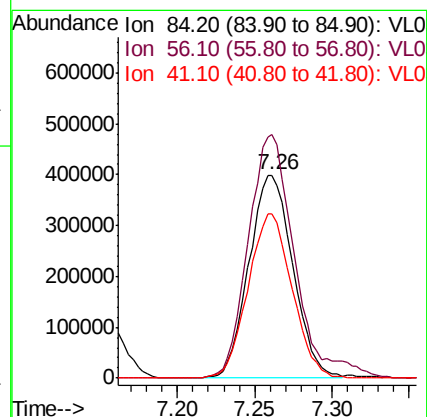
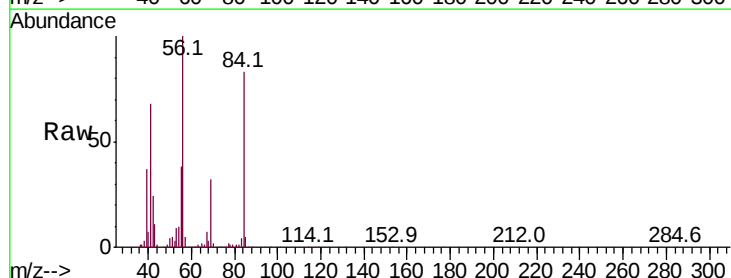
Instrument :
MSVOA_L
ClientSampled :

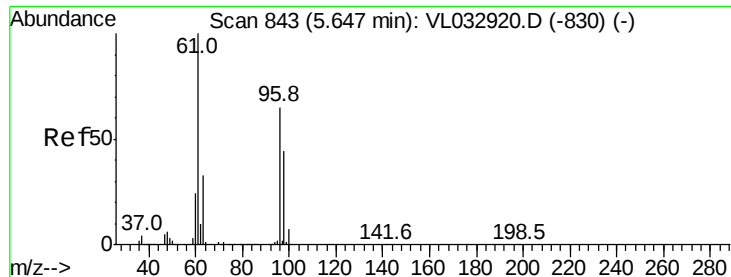
Tot Ion: 83 Resp: 1604885
Ion Ratio Lower Upper
83 100
85 64.9 49.8 74.8



#30
Cyclohexane
Concen: 10.990 ppbv
RT: 7.26 min Scan# 1345
Delta R.T. 0.01 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Tgt Ion: 84 Resp: 790652
Ion Ratio Lower Upper
84 100
56 126.7 102.5 153.7
41 80.9 64.1 96.1



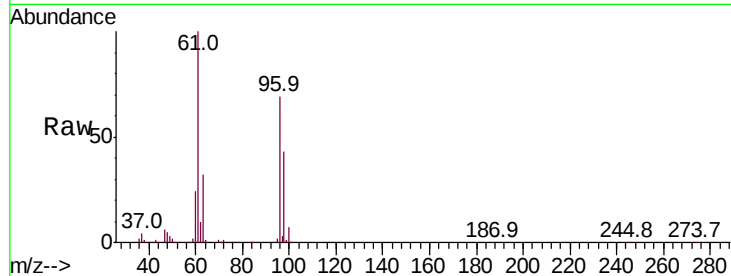


#31

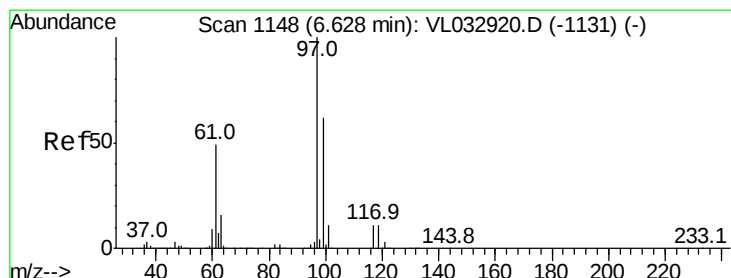
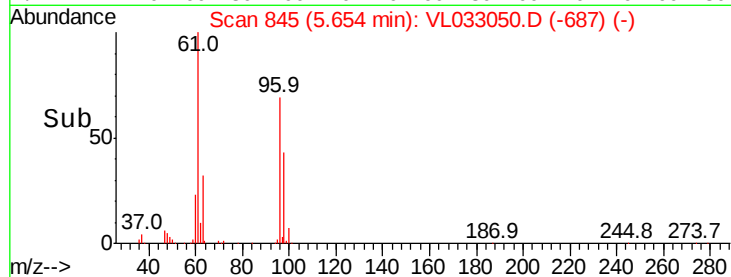
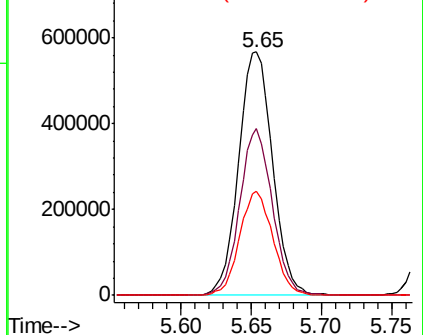
cis-1,2-Dichloroethene
Concen: 12.072 ppbv
RT: 5.65 min Scan# 845
Delta R.T. 0.01 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
61	100		
96	68.6	51.9	77.9
98	42.9	35.0	52.4



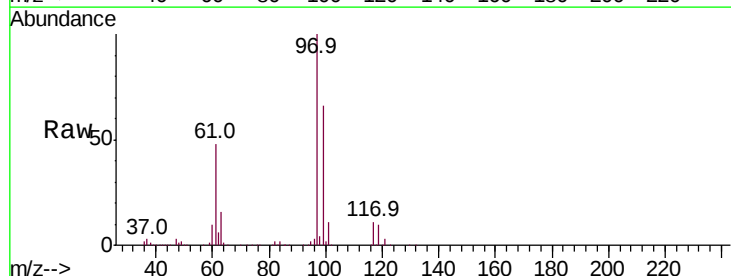
Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



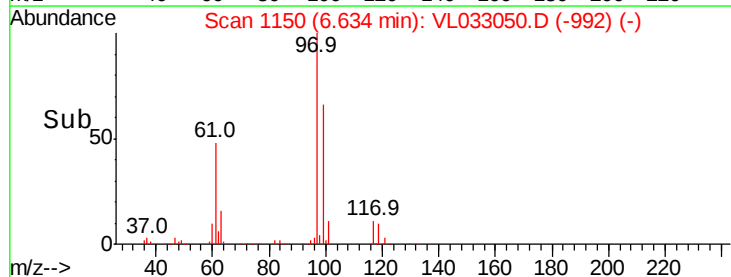
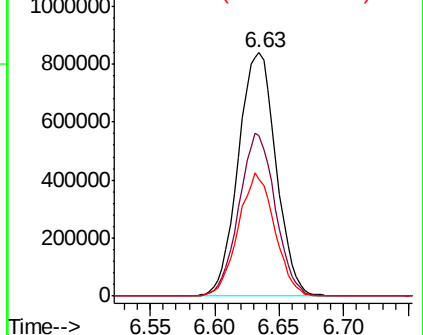
#32

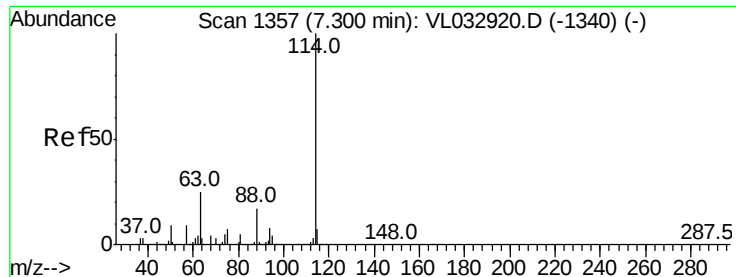
1,1,1-Trichloroethane
Concen: 10.433 ppbv
RT: 6.63 min Scan# 1150
Delta R.T. 0.01 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.1	76.7
61	48.9	39.3	58.9



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

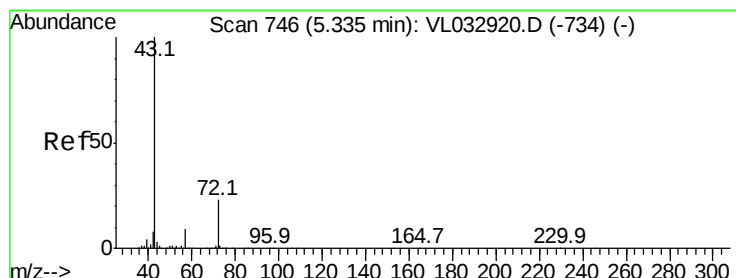
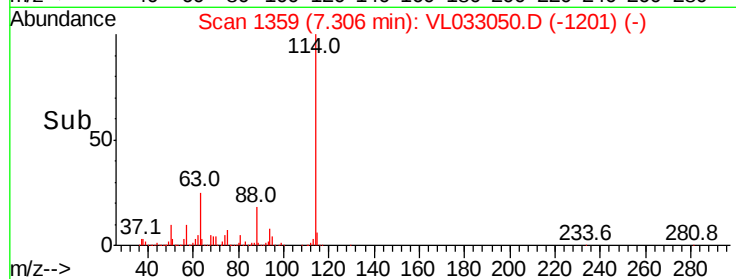
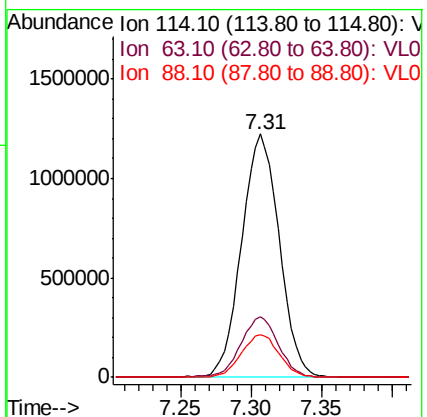
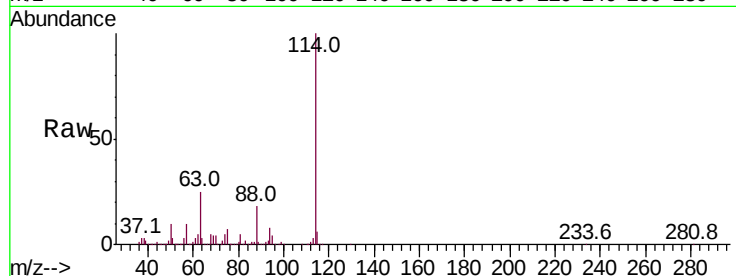




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

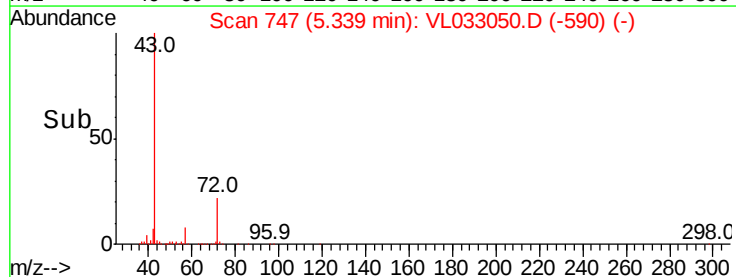
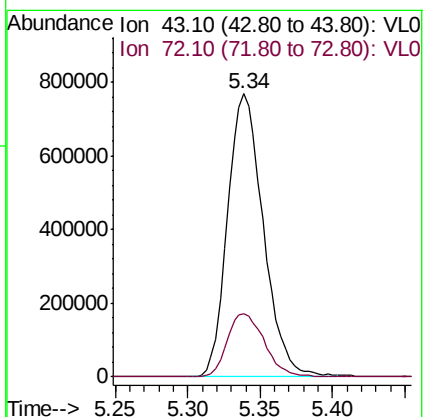
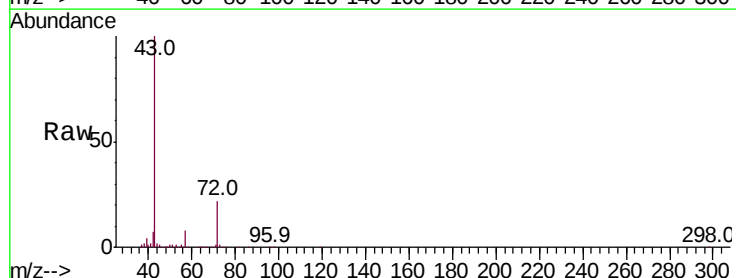
Instrument :
 MSVOA_L
 ClientSampleId :

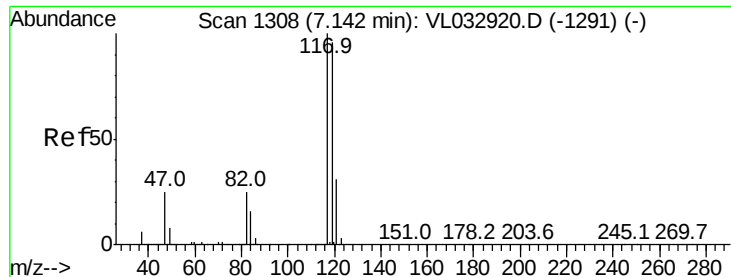
Tot Ion:114 Resp: 2292914
 Ion Ratio Lower Upper
 114 100
 63 25.0 20.1 30.1
 88 17.7 14.2 21.4



#34
 2-Butanone
 Concen: 13.122 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

Tgt Ion: 43 Resp: 1310612
 Ion Ratio Lower Upper
 43 100
 72 23.3 18.8 28.2





#35

Carbon Tetrachloride

Concen: 10.174 ppbv

RT: 7.15 min Scan# 1310

Delta R.T. 0.01 min

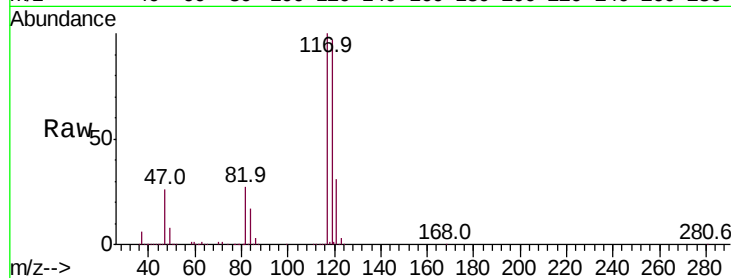
Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

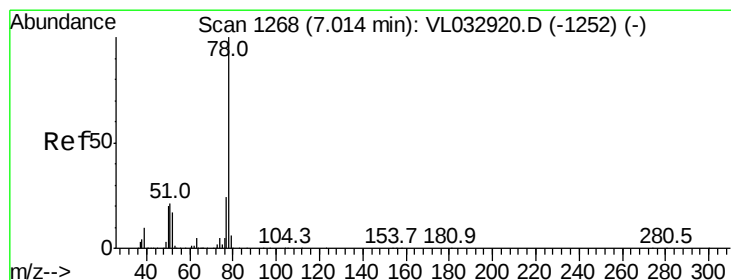
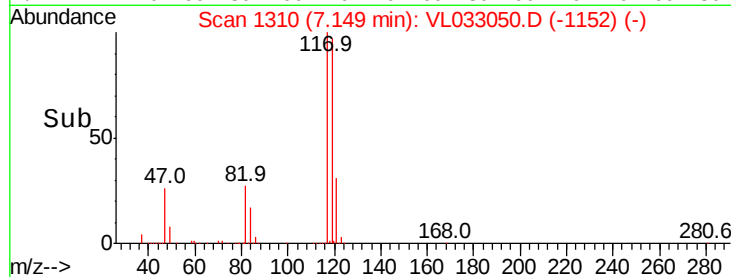
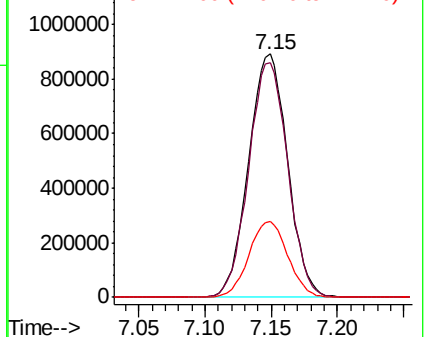
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 1833563

Ion	Ratio	Lower	Upper
117	100		
119	96.5	76.5	114.7
121	31.2	24.5	36.7



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: 11.015 ppbv

RT: 7.02 min Scan# 1270

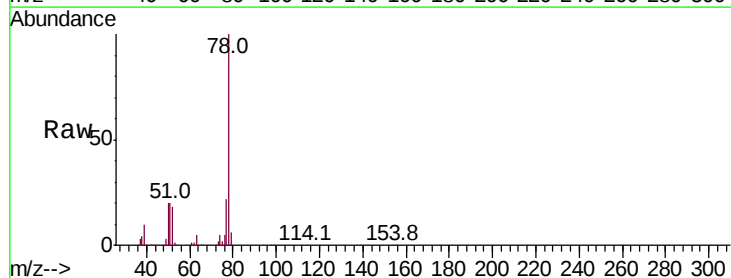
Delta R.T. 0.01 min

Lab File: VL033050.D

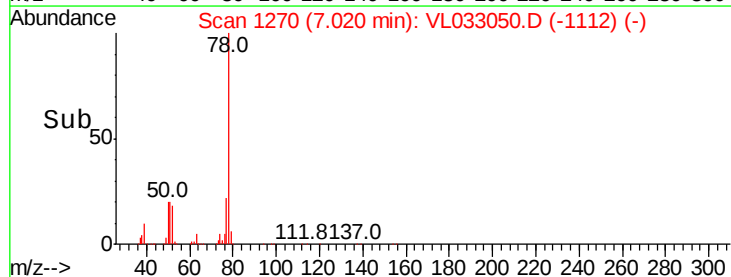
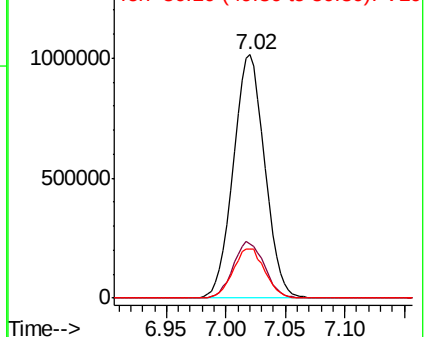
Acq: 21 Dec 2018 11:49

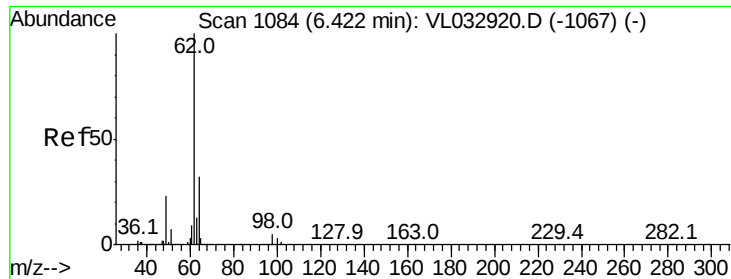
Tgt Ion: 78 Resp: 1857660

Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.9	28.3
50	20.3	16.1	24.1



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

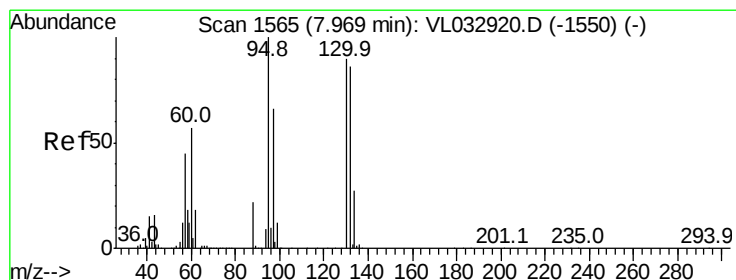
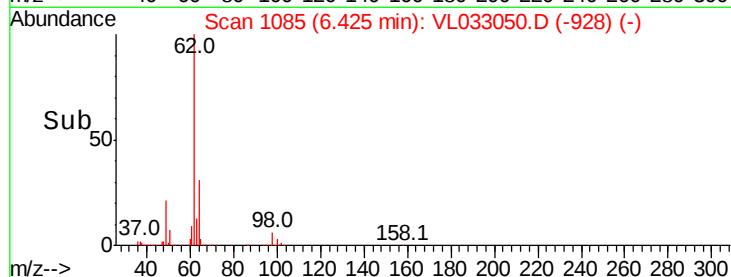
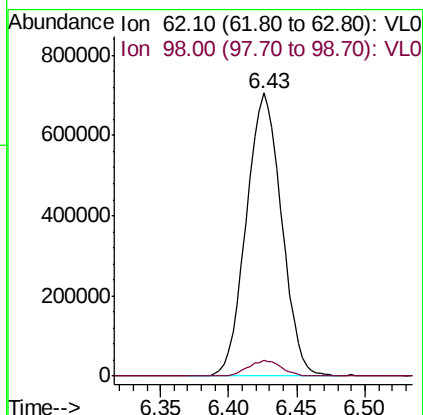
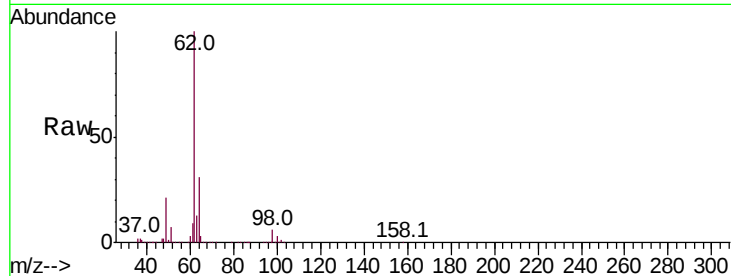




#37
 1,2-Dichloroethane
 Concen: 11.055 ppbv
 RT: 6.43 min Scan# 1085
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

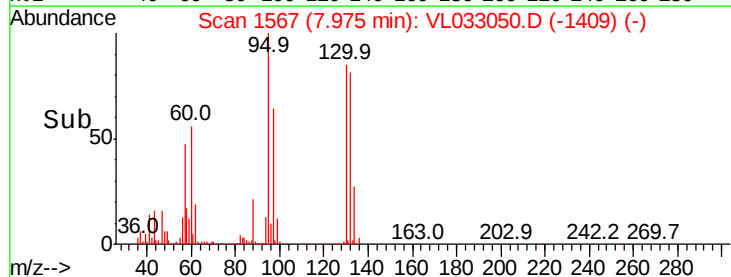
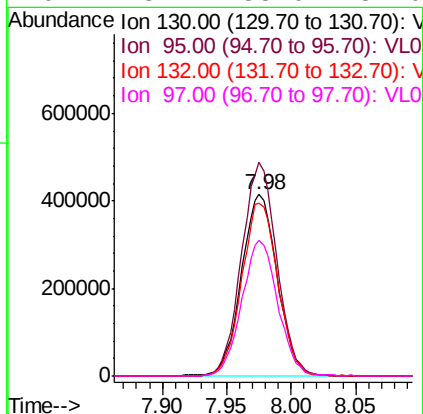
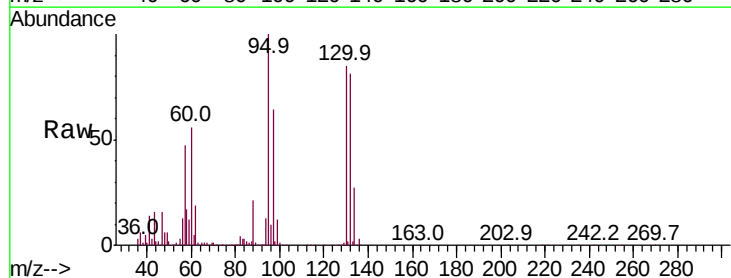
Instrument :
 MSVOA_L
 ClientSampleId :

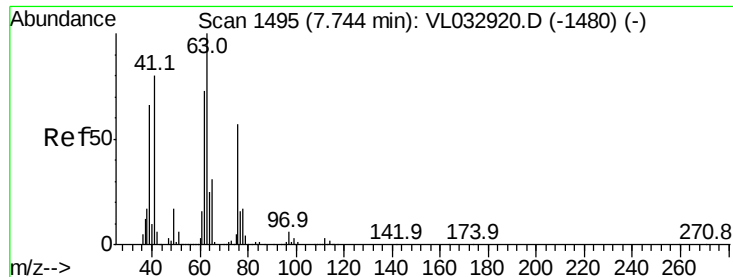
Tot Ion: 62 Resp: 1269338
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.3 6.5



#38
 Trichloroethene
 Concen: 11.406 ppbv
 RT: 7.98 min Scan# 1567
 Delta R.T. 0.01 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

Tgt Ion:130 Resp: 800548
 Ion Ratio Lower Upper
 130 100
 95 117.7 88.6 132.8
 132 95.3 76.1 114.1
 97 75.1 58.0 87.0





#39

1,2-Dichloropropane

Concen: 10.620 ppbv

RT: 7.75 min Scan# 1497

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampleId :

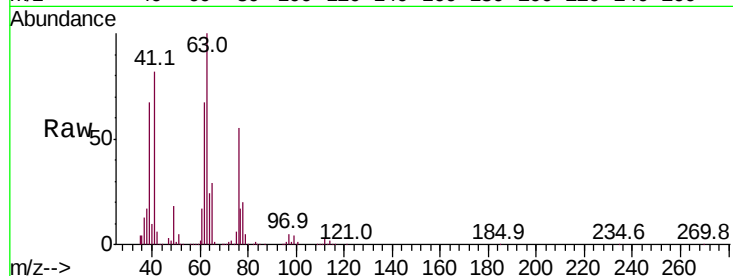
Tot Ion: 63 Resp: 679274

Ion Ratio Lower Upper

63 100

41 81.8 63.9 95.9

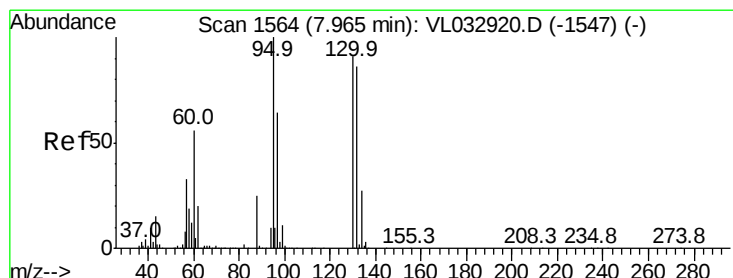
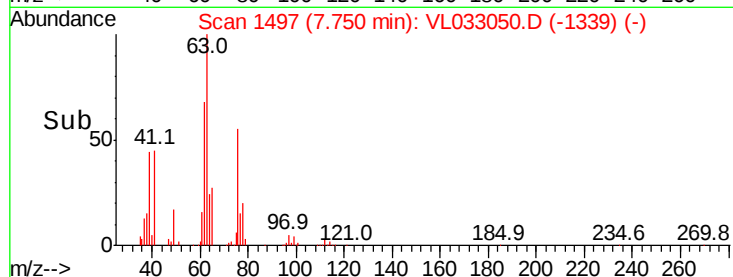
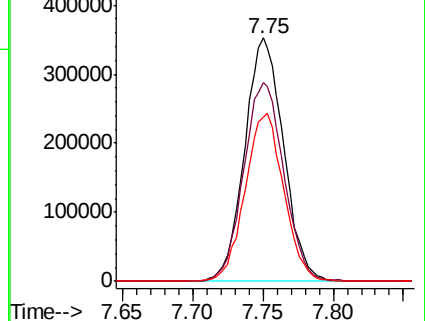
62 67.2 58.8 88.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.801 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Tgt Ion: 88 Resp: 254452

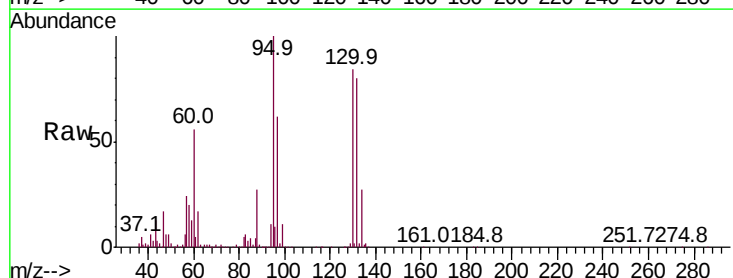
Ion Ratio Lower Upper

88 100

58 128.6 107.4 161.2

43 276.8 0.0 0.0#

57 1244.8 0.0 0.0#

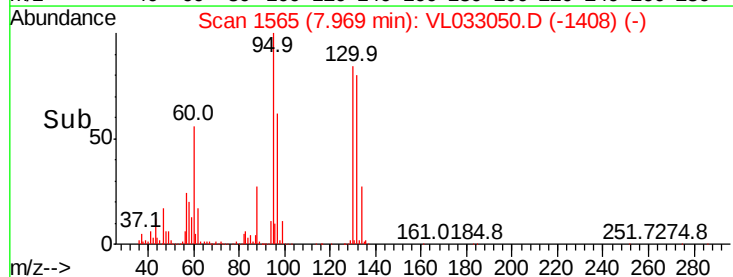
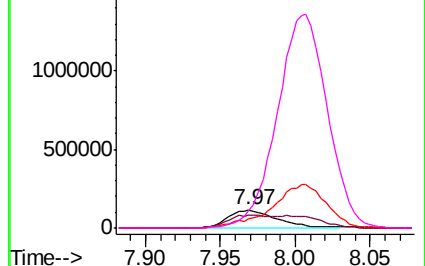


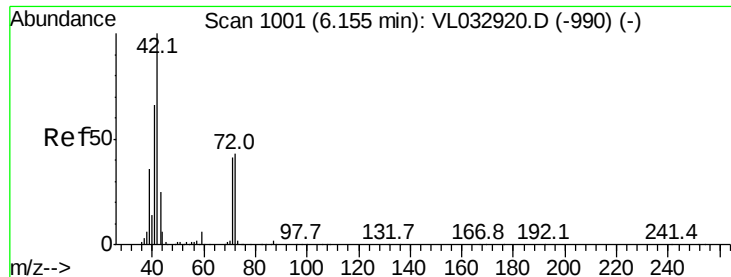
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

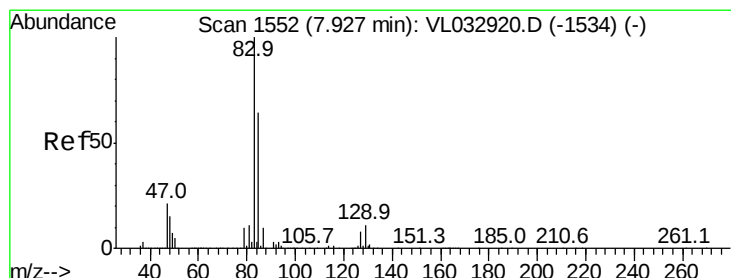
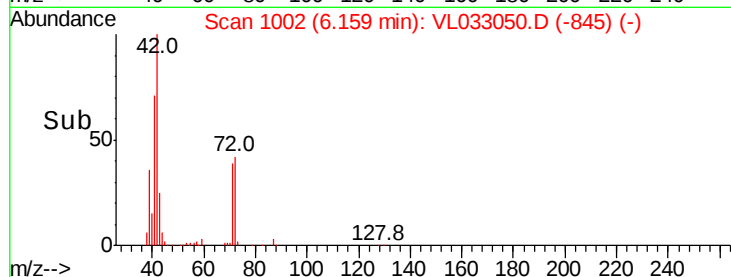
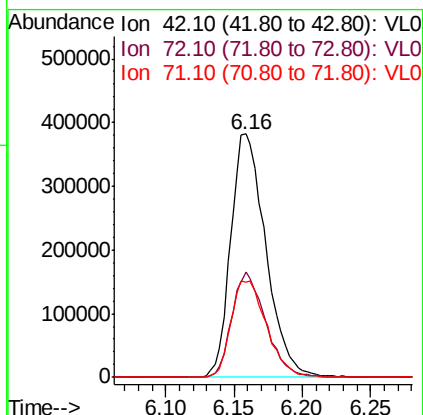
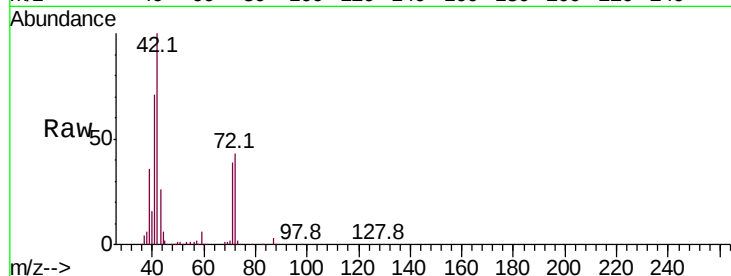




#41
Tetrahydrofuran
Concen: 11.011 ppbv
RT: 6.16 min Scan# 1002
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

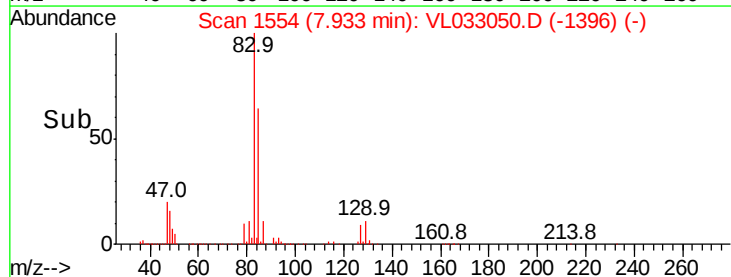
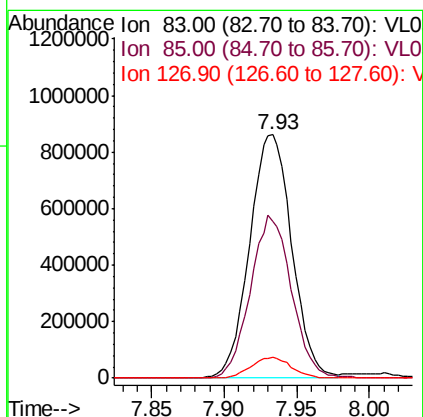
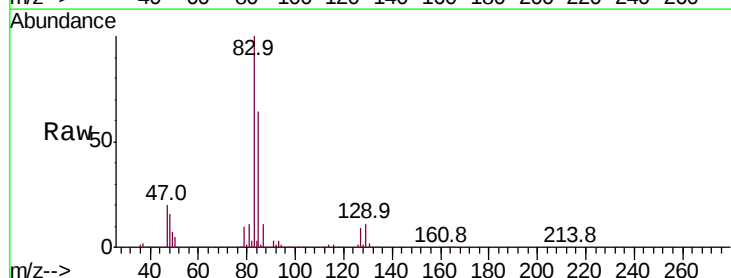
Instrument :
MSVOA_L
ClientSampleId :

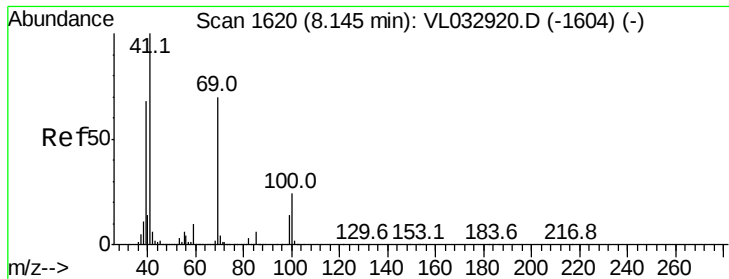
Tot Ion: 42 Resp: 683985
Ion Ratio Lower Upper
42 100
72 41.8 32.9 49.3
71 40.4 32.0 48.0



#42
Bromodichloromethane
Concen: 10.990 ppbv
RT: 7.93 min Scan# 1554
Delta R.T. 0.01 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Tgt Ion: 83 Resp: 1748387
Ion Ratio Lower Upper
83 100
85 64.4 50.9 76.3
127 8.6 6.7 10.1





#43

Methyl Methacrylate

Concen: 12.246 ppbv

RT: 8.15 min Scan# 1621

Delta R.T. 0.00 min

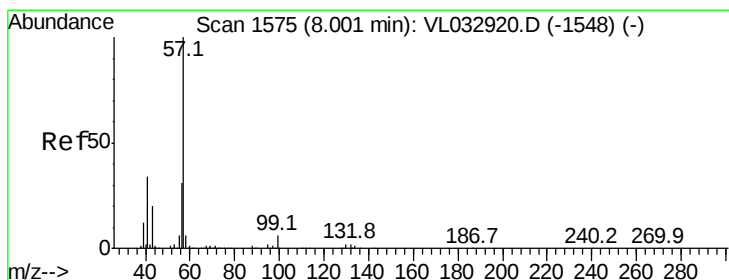
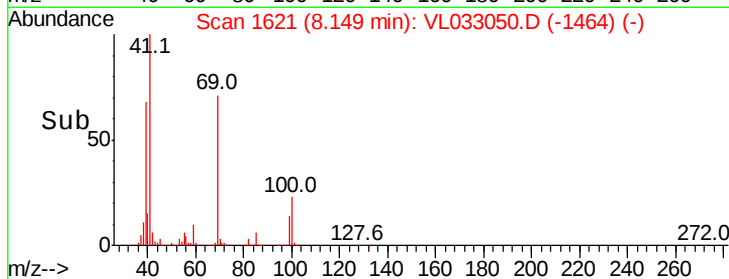
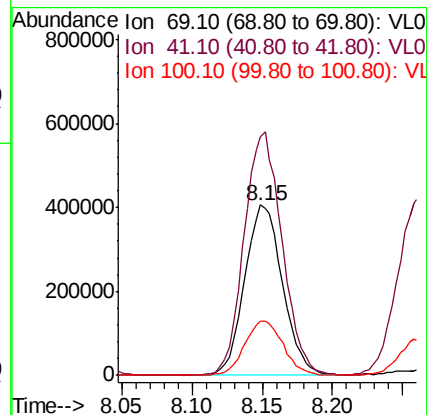
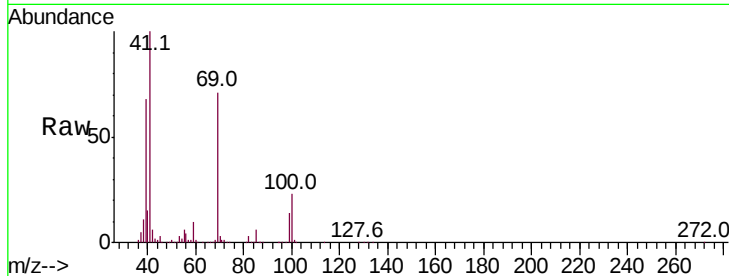
Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 765294

Ion	Ratio	Lower	Upper
69	100		
41	143.2	116.6	175.0
100	32.3	26.5	39.7



#44

2,2,4-Trimethylpentane

Concen: 11.053 ppbv

RT: 8.01 min Scan# 1577

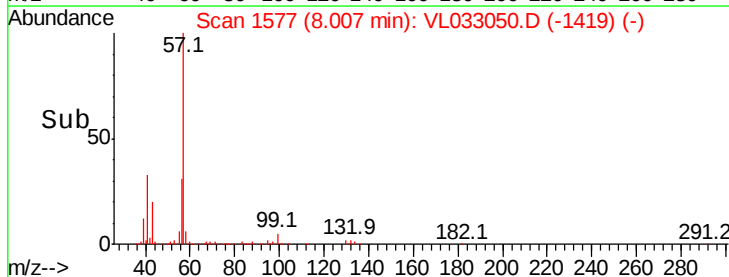
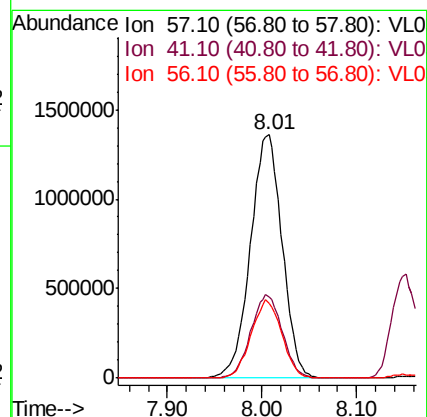
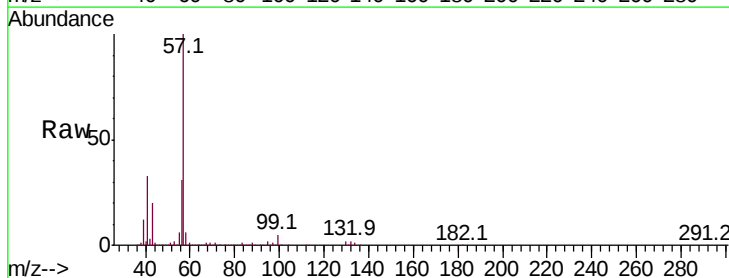
Delta R.T. 0.01 min

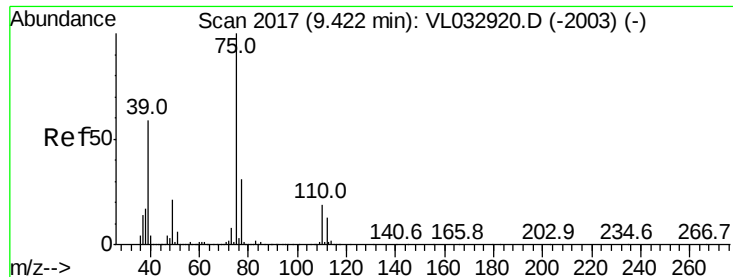
Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Tgt Ion: 57 Resp: 3164301

Ion	Ratio	Lower	Upper
57	100		
41	33.9	27.0	40.4
56	31.0	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 13.683 ppbv

RT: 9.43 min Scan# 2019

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

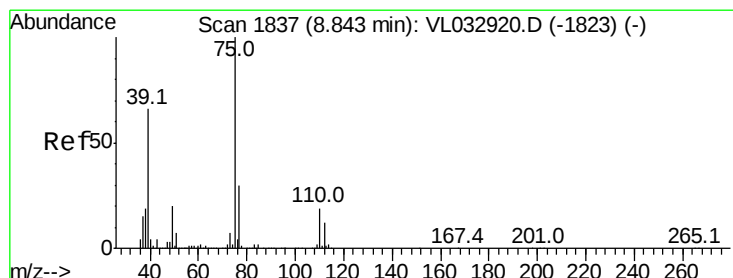
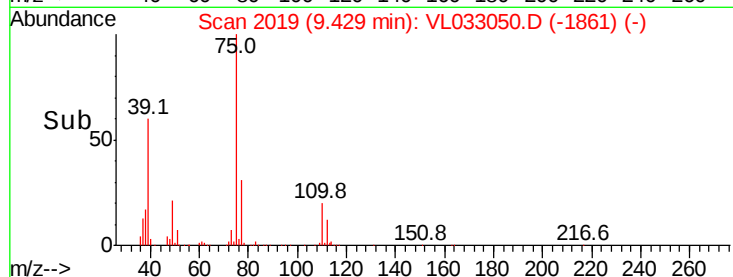
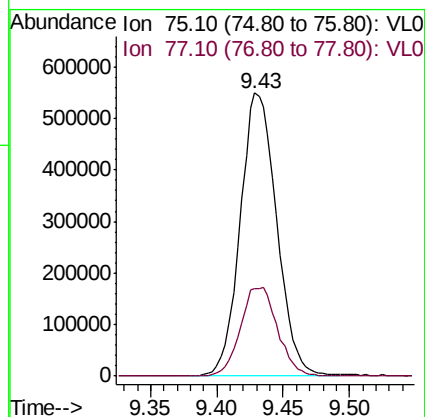
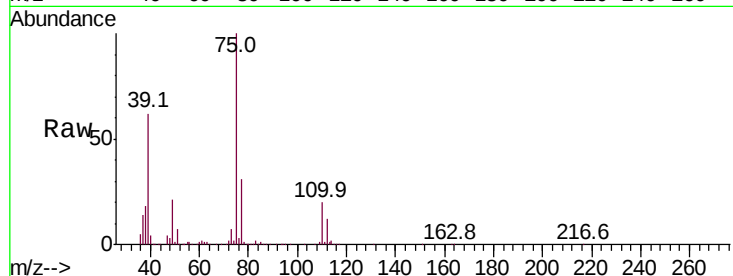
ClientSampleId :

Tot Ion: 75 Resp: 1048397

Ion Ratio Lower Upper

75 100

77 31.1 24.8 37.2



#46

cis-1,3-Dichloropropene

Concen: 12.764 ppbv

RT: 8.85 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

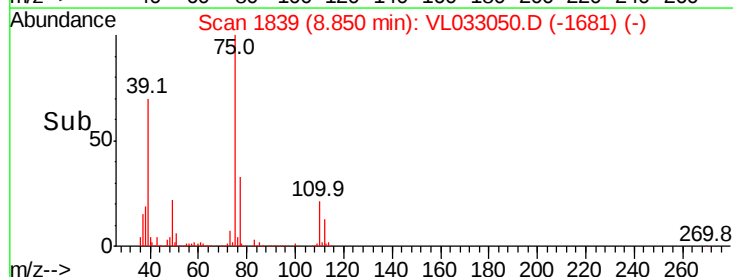
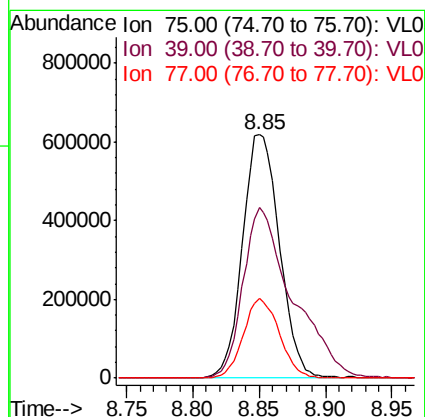
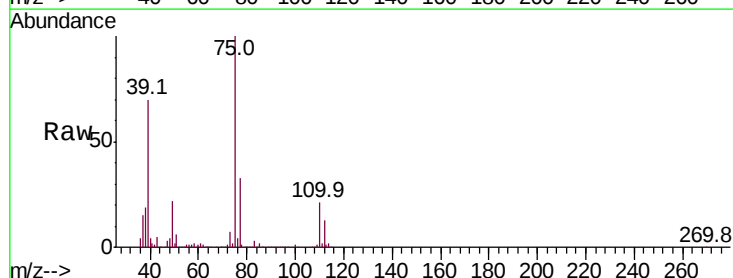
Tgt Ion: 75 Resp: 1197011

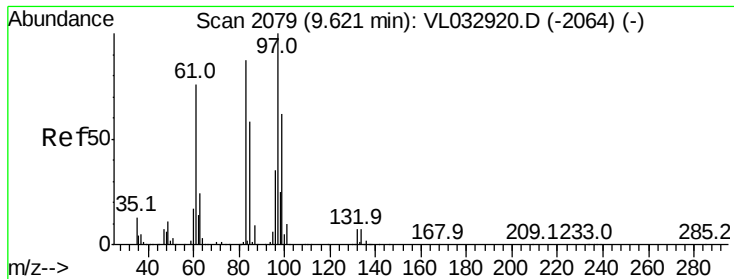
Ion Ratio Lower Upper

75 100

39 70.2 52.8 79.2

77 32.8 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 11.313 ppbv

RT: 9.63 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampled :

Tot Ion: 97 Resp: 796413

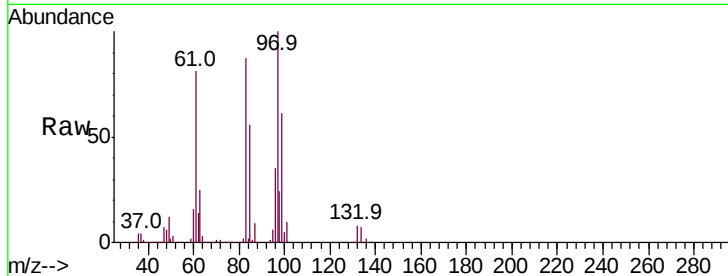
Ion Ratio Lower Upper

97 100

83 86.6 69.8 104.8

85 55.6 46.7 70.1

99 60.7 49.2 73.8

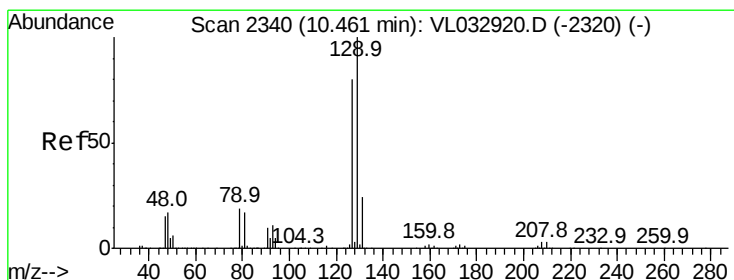
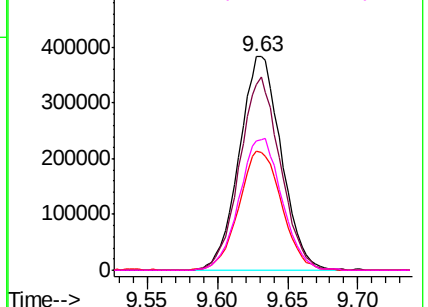
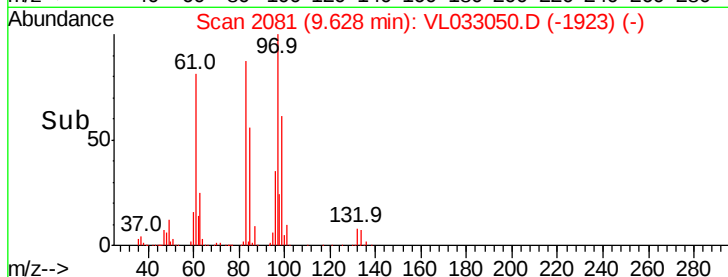


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 11.278 ppbv

RT: 10.47 min Scan# 2343

Delta R.T. 0.01 min

Lab File: VL033050.D

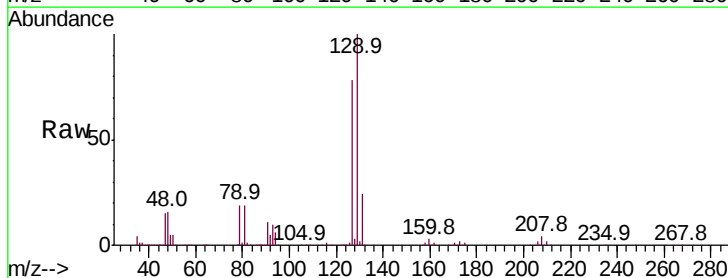
Acq: 21 Dec 2018 11:49

Tgt Ion: 129 Resp: 1489519

Ion Ratio Lower Upper

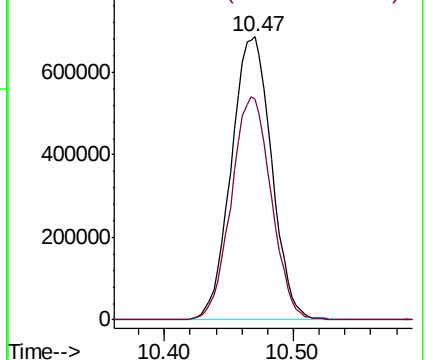
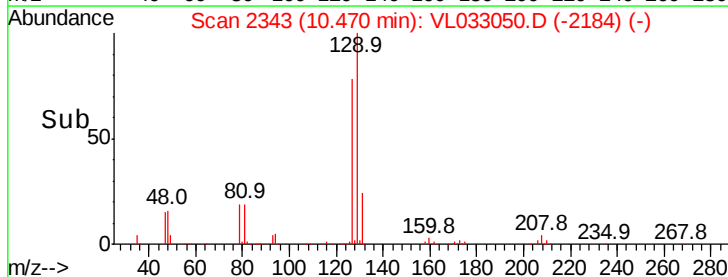
129 100

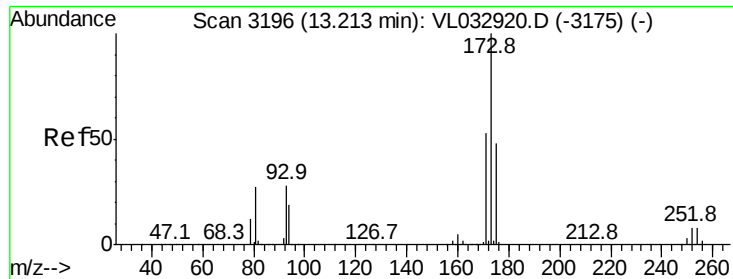
127 78.5 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.858 ppbv

RT: 13.22 min Scan# 3198

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampleId :

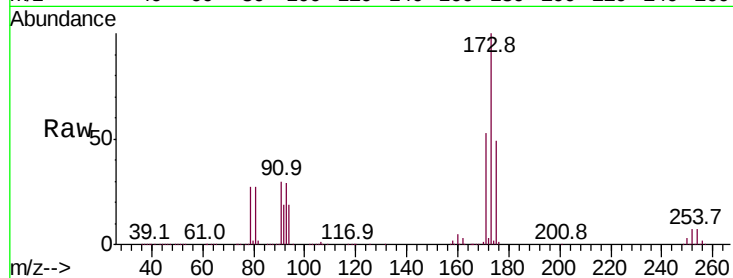
Tot Ion:173 Resp: 1288086

Ion Ratio Lower Upper

173 100

175 49.1 39.0 58.4

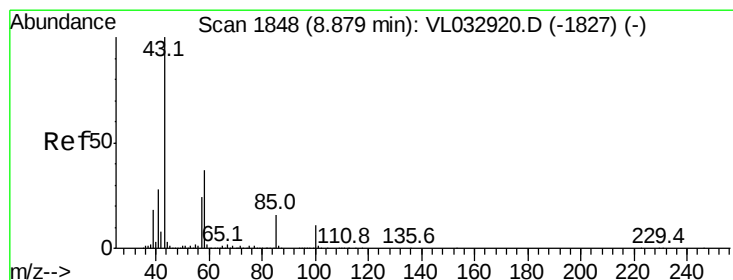
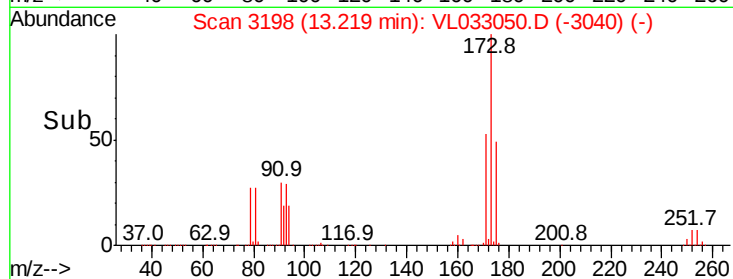
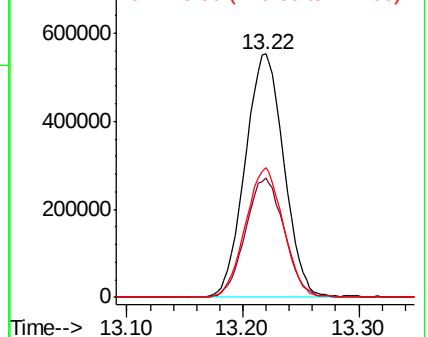
171 52.3 41.5 62.3



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: 11.383 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. 0.00 min

Lab File: VL033050.D

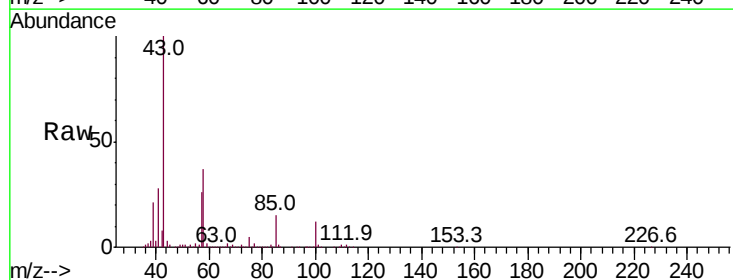
Acq: 21 Dec 2018 11:49

Tgt Ion: 43 Resp: 1818089

Ion Ratio Lower Upper

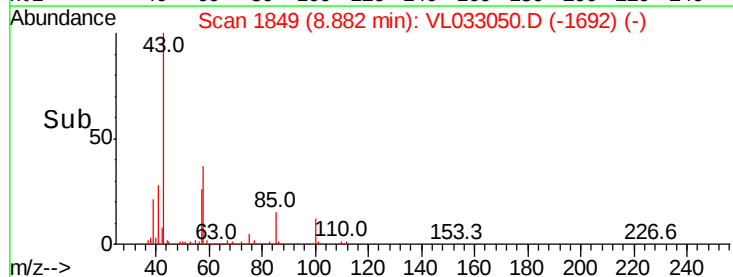
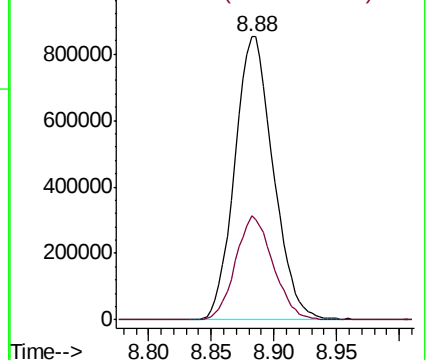
43 100

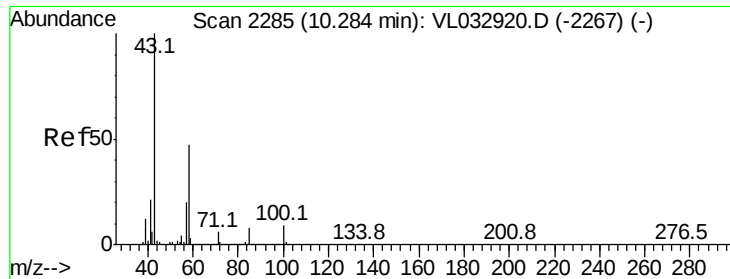
58 35.9 29.0 43.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 12.541 ppbv

RT: 10.28 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampled :

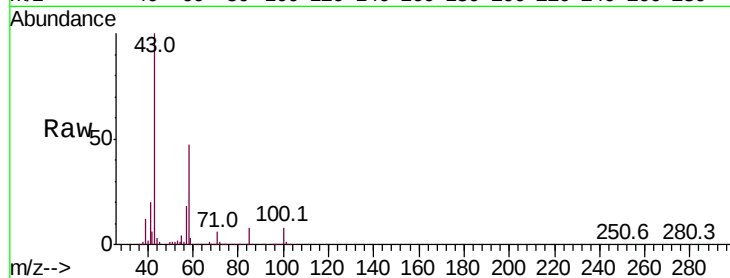
Tot Ion: 43 Resp: 1358335

Ion Ratio Lower Upper

43 100

58 48.3 38.1 57.1

98 0.5 0.4 0.6

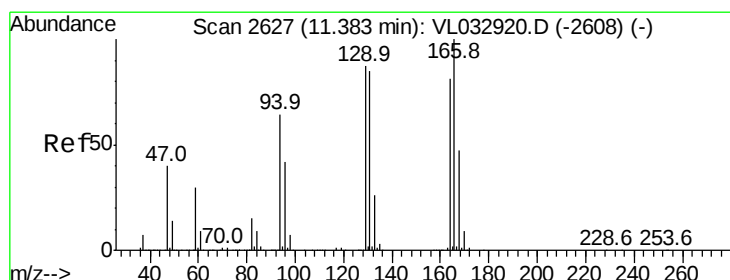
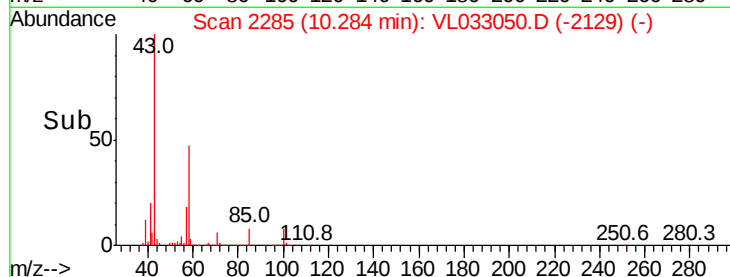
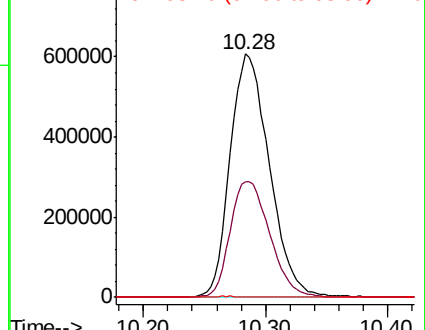


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 11.223 ppbv

RT: 11.39 min Scan# 2629

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Tgt Ion:164 Resp: 688502

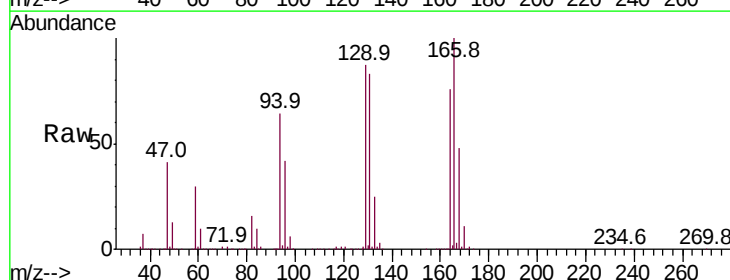
Ion Ratio Lower Upper

164 100

166 131.6 98.8 148.2

129 114.9 85.5 128.3

131 108.8 84.4 126.6



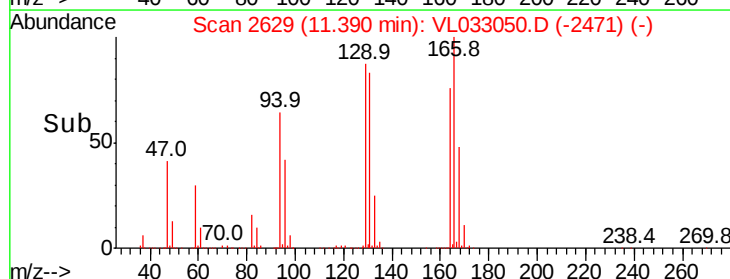
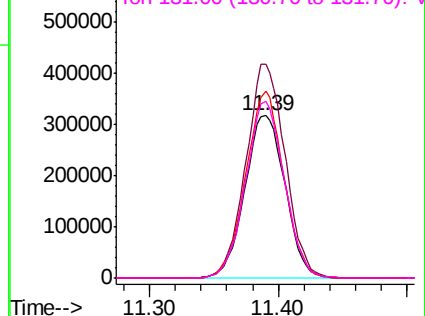
Abundance

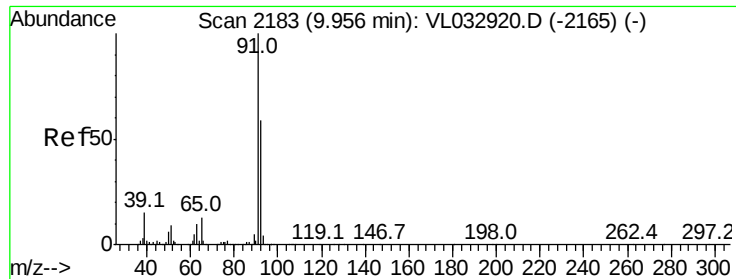
Ion 163.90 (163.60 to 164.60): V

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: 12.401 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

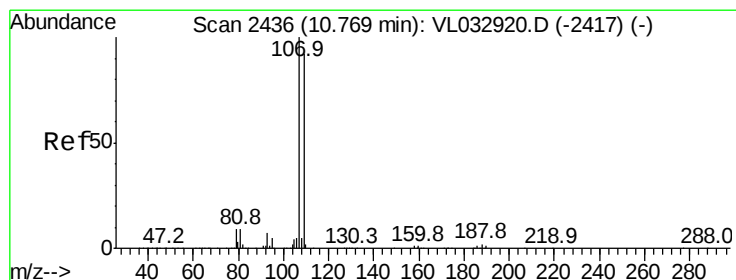
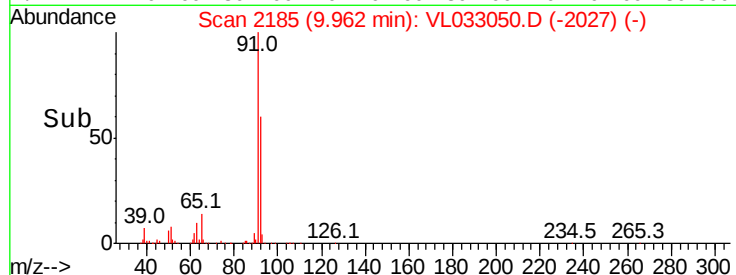
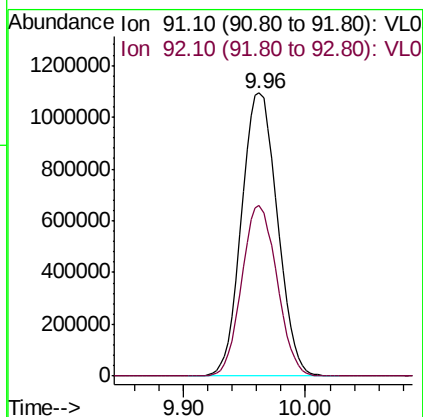
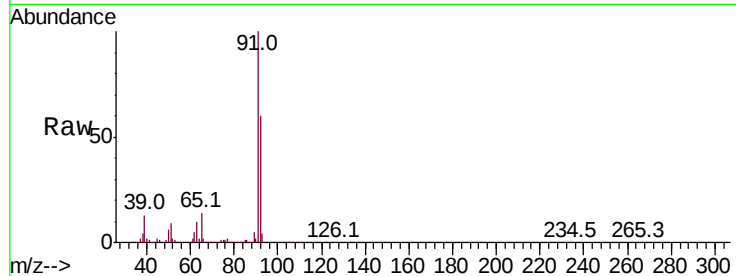
ClientSampleId :

Tot Ion: 91 Resp: 2218173

Ion Ratio Lower Upper

91 100

92 59.3 47.4 71.0



#54

1,2-Dibromoethane

Concen: 11.432 ppbv

RT: 10.78 min Scan# 2438

Delta R.T. 0.01 min

Lab File: VL033050.D

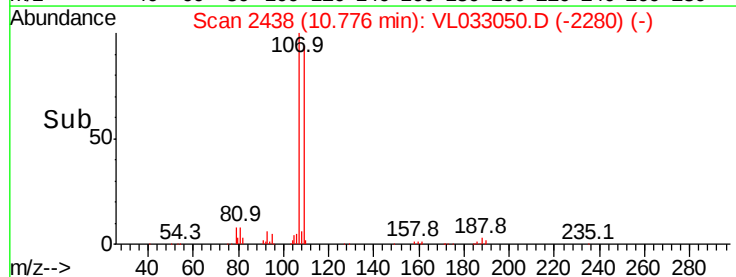
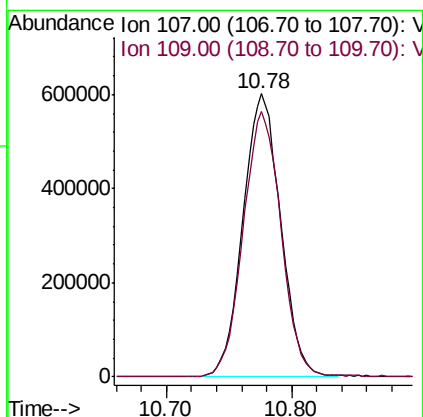
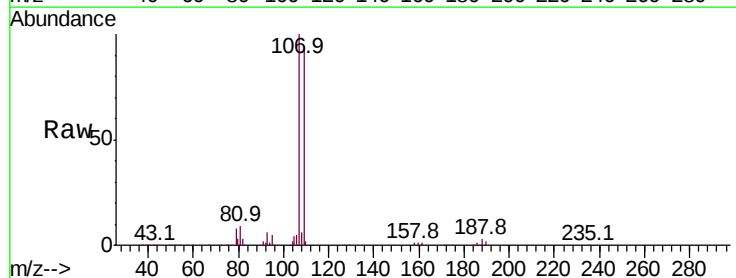
Acq: 21 Dec 2018 11:49

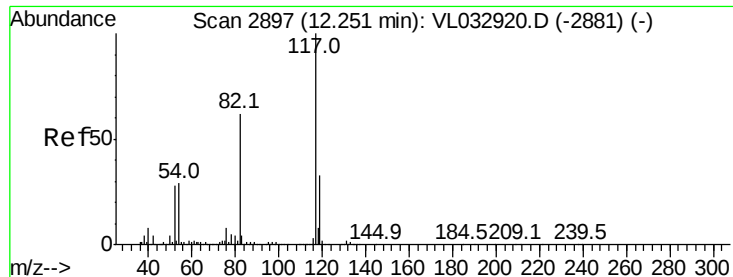
Tgt Ion: 107 Resp: 1257259

Ion Ratio Lower Upper

107 100

109 93.9 73.4 110.2

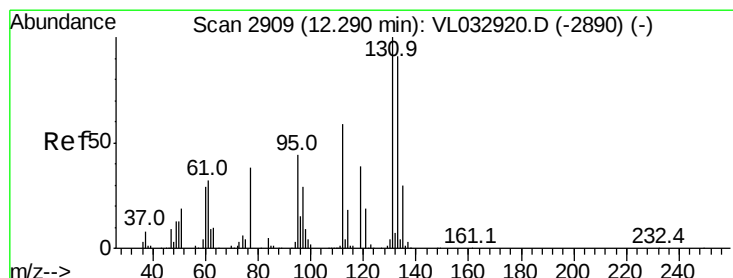
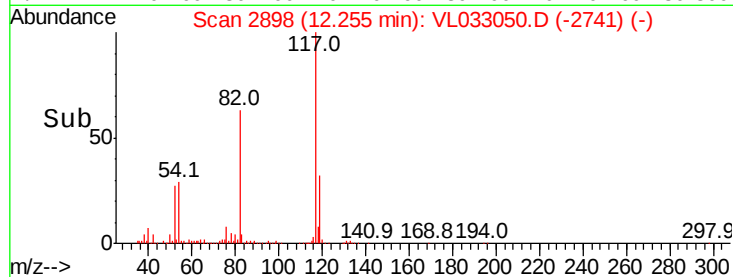
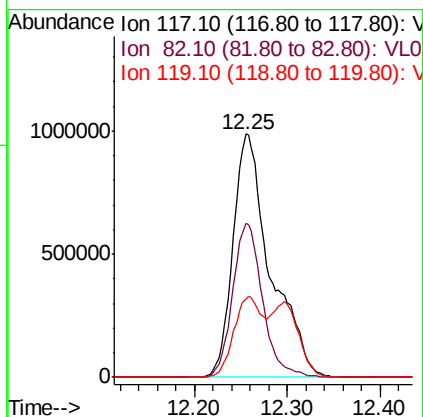
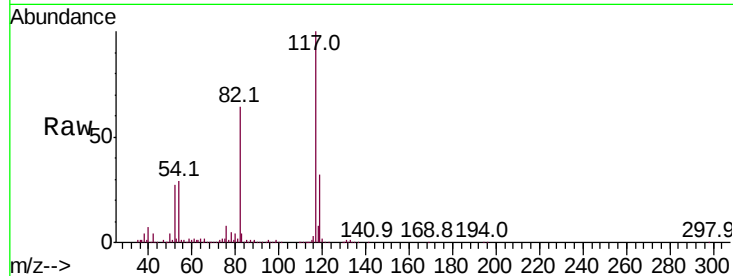




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

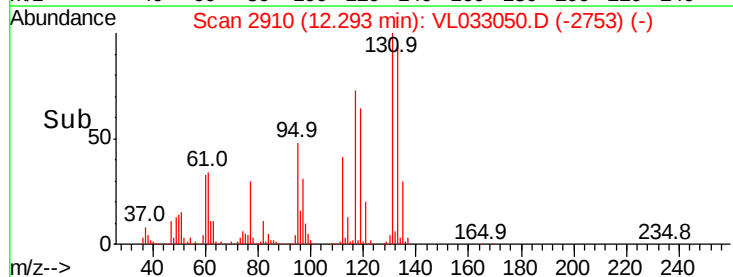
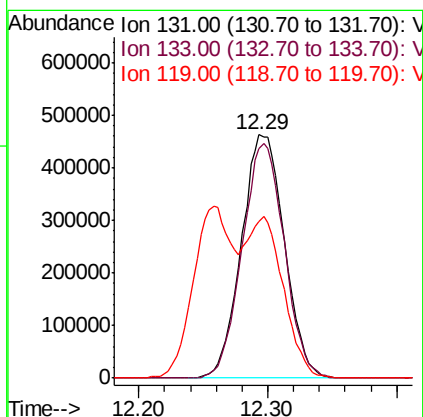
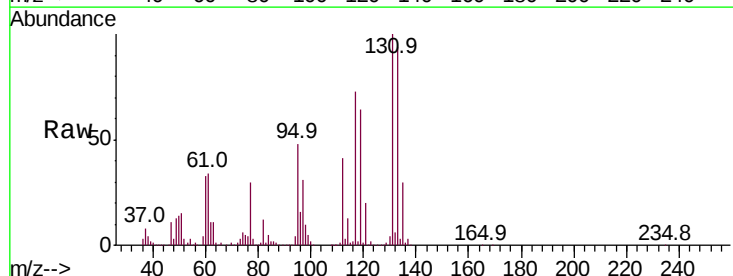
Instrument :
MSVOA_L
ClientSampleId :

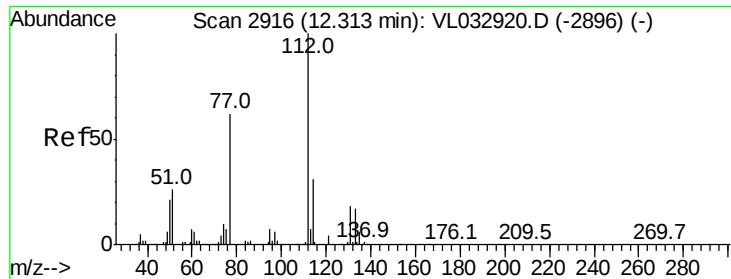
Tot Ion:117 Resp: 2769574
Ion Ratio Lower Upper
117 100
82 50.6 47.8 71.8
119 23.9 43.1 64.7#



#56
1,1,1,2-Tetrachloroethane
Concen: 8.699 ppbv
RT: 12.29 min Scan# 2910
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Tgt Ion:131 Resp: 1074125
Ion Ratio Lower Upper
131 100
133 94.9 75.1 112.7
119 63.3 47.5 71.3

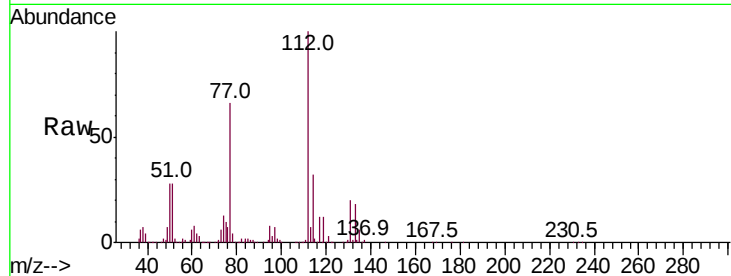




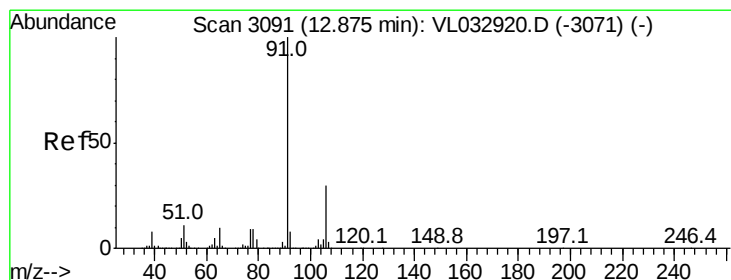
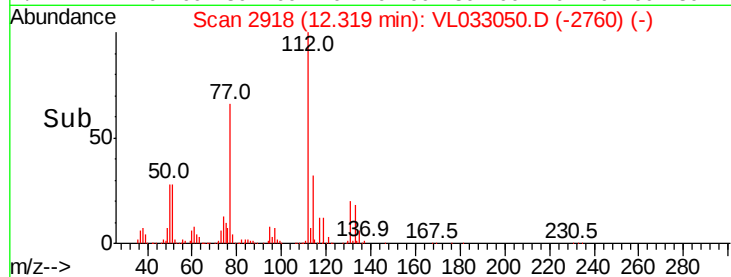
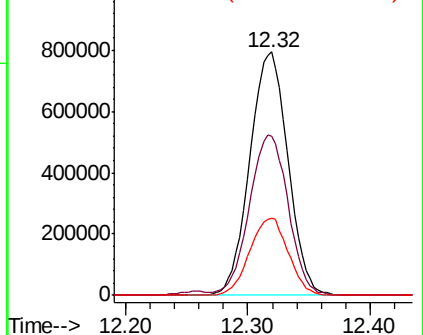
#57
Chlorobenzene
Concen: 8.596 ppbv
RT: 12.32 min Scan# 2918
Delta R.T. 0.01 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:112 Resp: 1719544
Ion Ratio Lower Upper
112 100
77 65.2 51.1 76.7
114 31.7 28.4 34.7

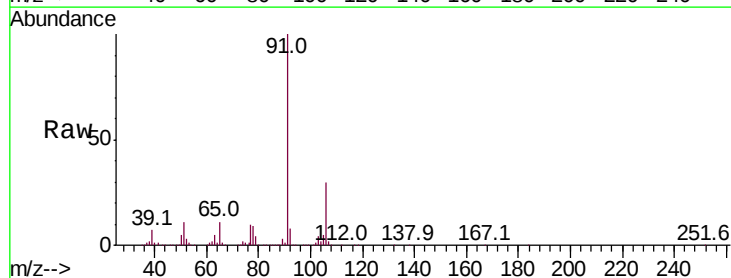


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

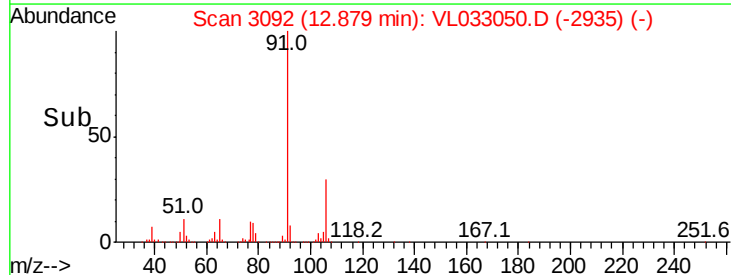
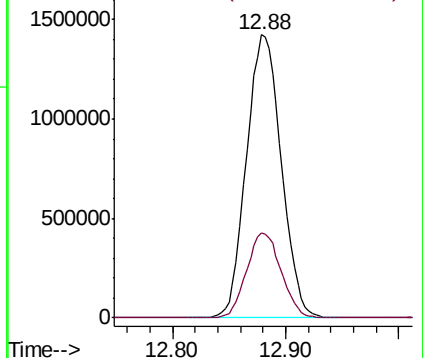


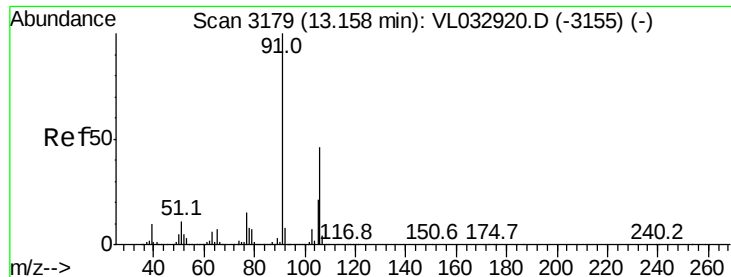
#58
Ethyl Benzene
Concen: 10.319 ppbv
RT: 12.88 min Scan# 3092
Delta R.T. 0.00 min
Lab File: VL033050.D
Acq: 21 Dec 2018 11:49

Tgt Ion: 91 Resp: 3048716
Ion Ratio Lower Upper
91 100
106 29.8 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 9.112 ppbv

RT: 13.16 min Scan# 3181

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

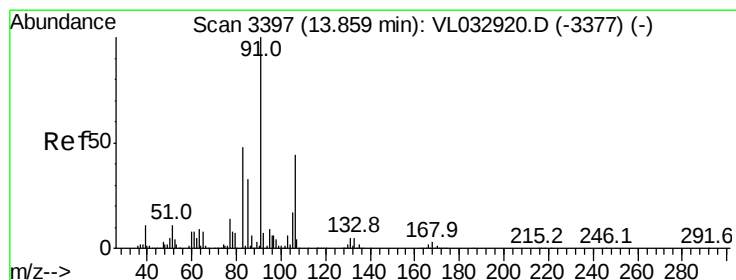
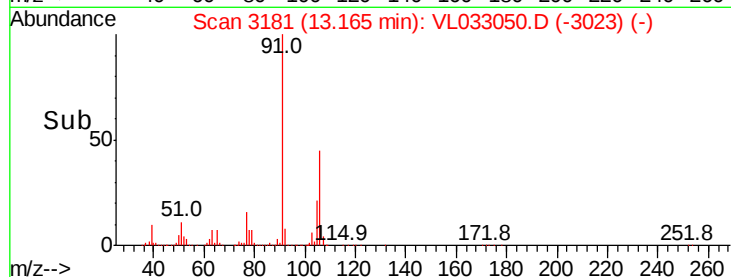
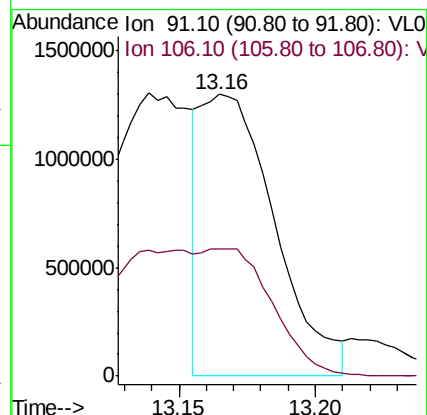
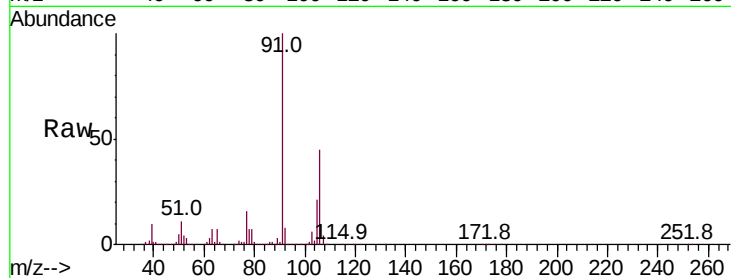
ClientSampled :

Tot Ion: 91 Resp: 2440848

Ion Ratio Lower Upper

91 100

106 96.3 0.0 0.0#



#60

o-Xylene

Concen: 9.541 ppbv

RT: 13.87 min Scan# 3399

Delta R.T. 0.01 min

Lab File: VL033050.D

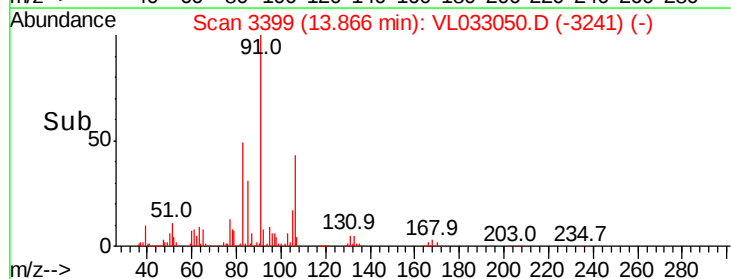
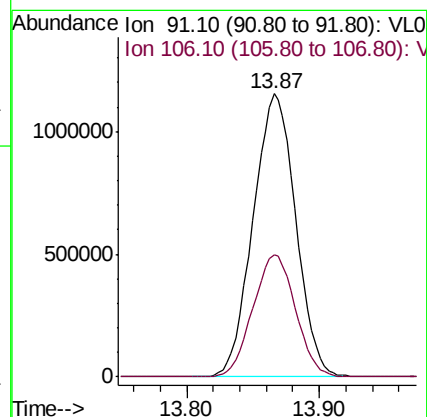
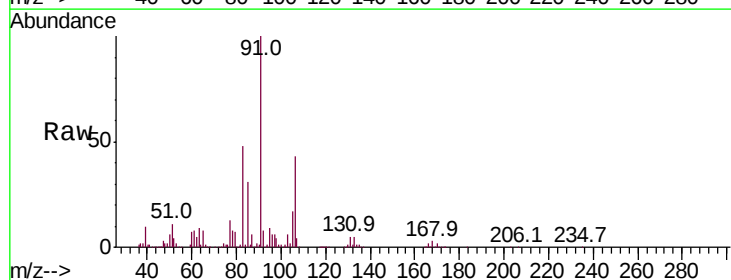
Acq: 21 Dec 2018 11:49

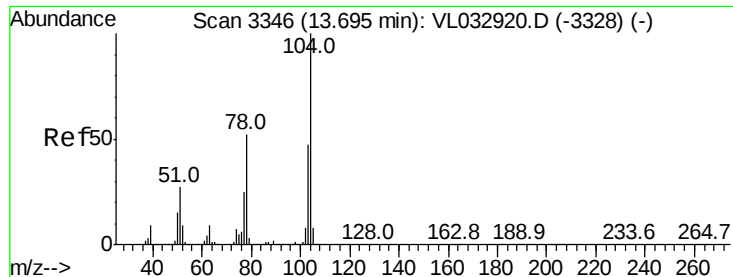
Tgt Ion: 91 Resp: 2580807

Ion Ratio Lower Upper

91 100

106 43.3 21.9 65.8





#61

Stvrene

Concen: 10.354 ppbv

RT: 13.70 min Scan# 3348

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampled :

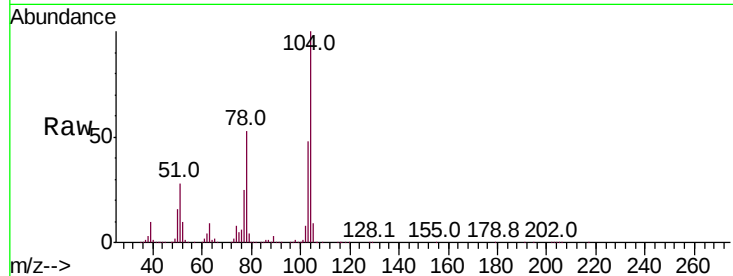
Tot Ion:104 Resp: 1863146

Ion Ratio Lower Upper

104 100

78 52.8 42.0 63.0

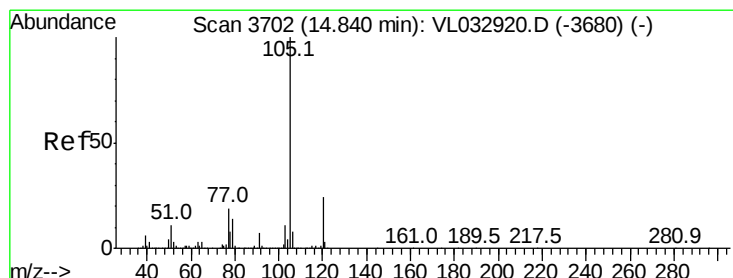
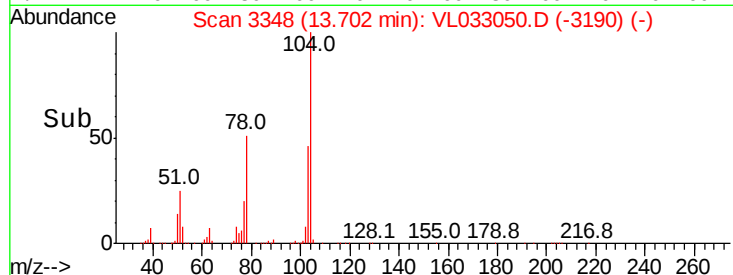
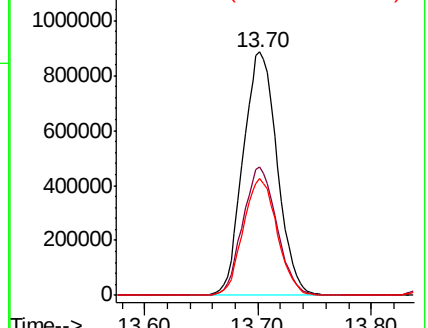
103 48.0 38.3 57.5



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: 9.581 ppbv

RT: 14.84 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VL033050.D

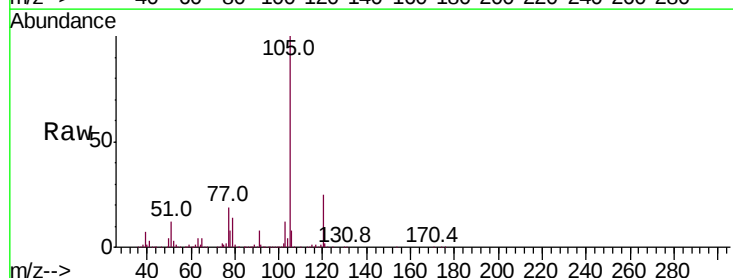
Acq: 21 Dec 2018 11:49

Tgt Ion:105 Resp: 3616069

Ion Ratio Lower Upper

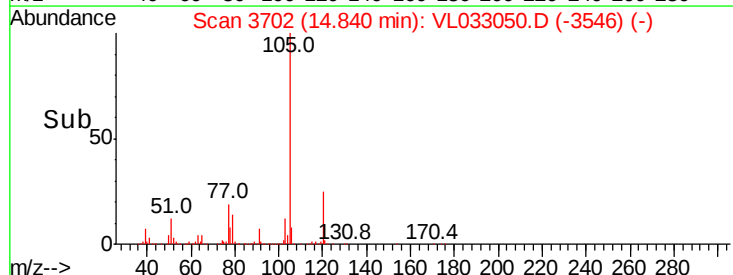
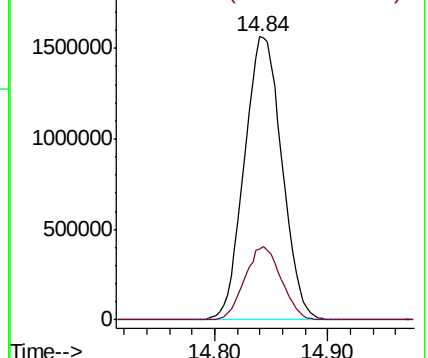
105 100

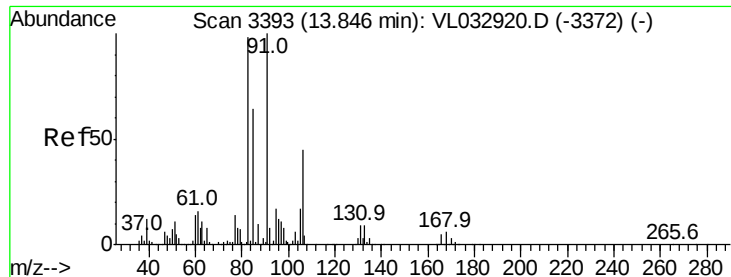
120 25.2 20.3 30.5



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: 8.405 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

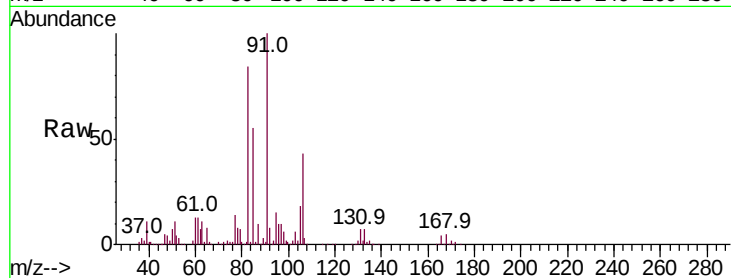
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 83 Resp: 1765406

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.9	14.6
85	64.9	32.9	98.6



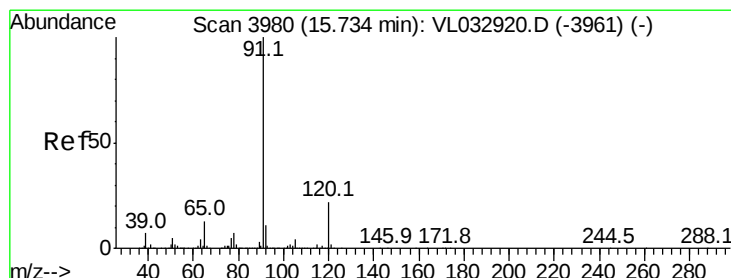
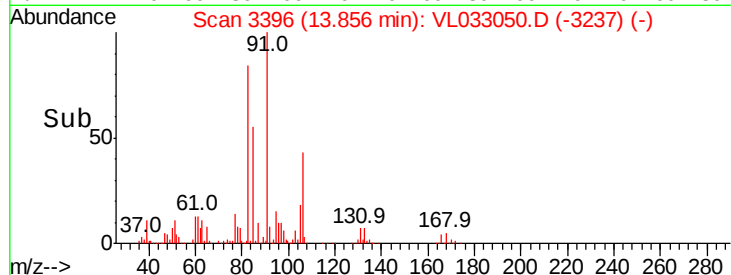
Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

13.86

Time-->



#64

n-propylbenzene

Concen: 9.402 ppbv

RT: 15.74 min Scan# 3982

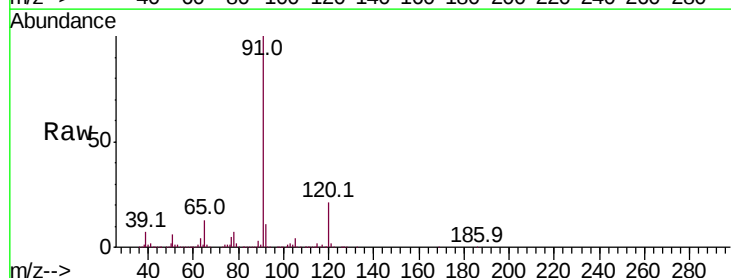
Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Tgt Ion:120 Resp: 921603

Ion	Ratio	Lower	Upper
120	100		
91	479.8	380.4	570.6

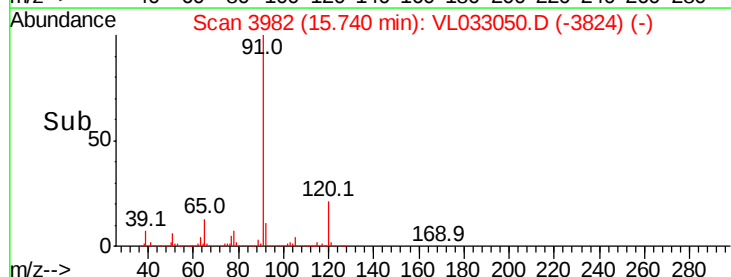


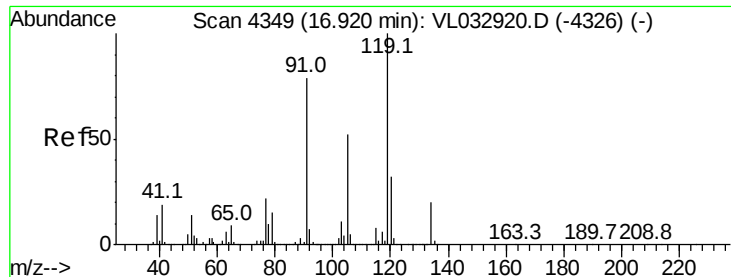
Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

15.74

Time-->





#65

tert-Butylbenzene

Concen: 9.601 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampleId :

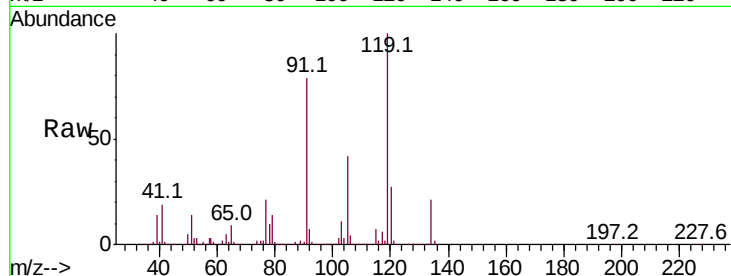
Tot Ion:119 Resp: 3359344

Ion Ratio Lower Upper

119 100

91 81.7 64.5 96.7

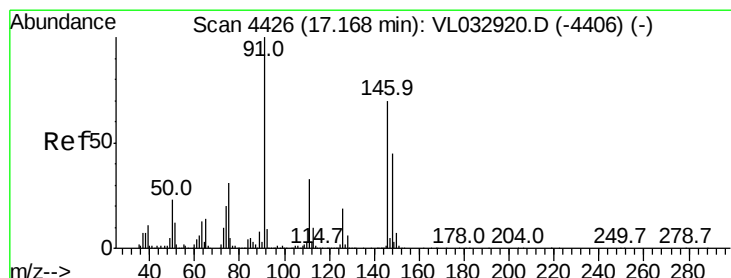
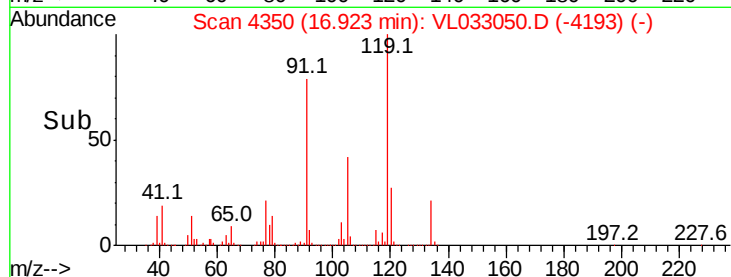
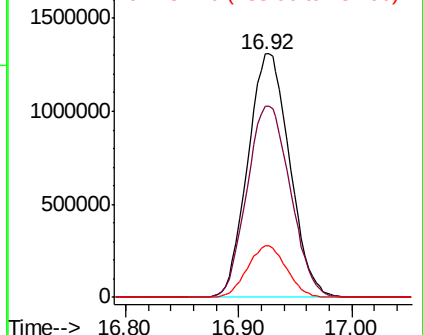
134 19.8 15.7 23.5



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.471 ppbv

RT: 17.17 min Scan# 4428

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

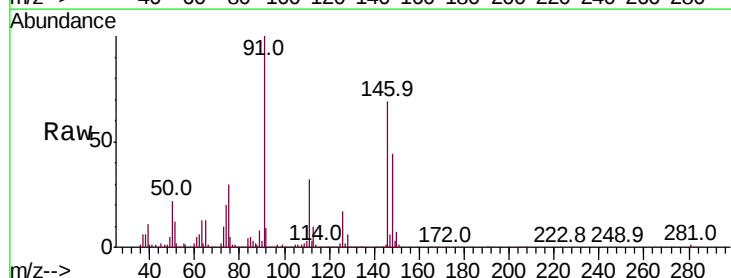
Tgt Ion: 91 Resp: 2030652

Ion Ratio Lower Upper

91 100

126 17.2 14.1 21.1

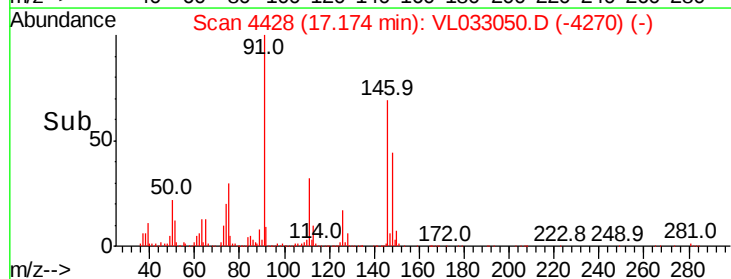
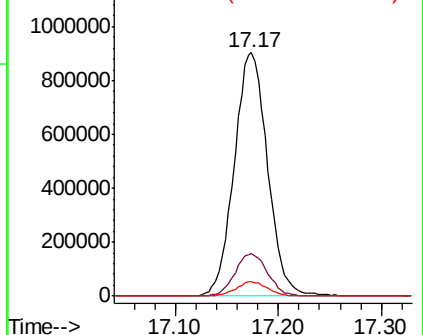
128 5.7 4.5 6.7

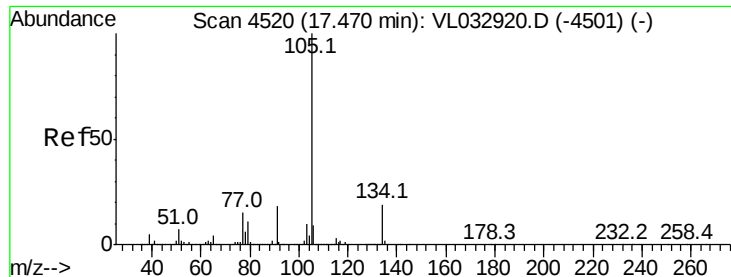


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.142 ppbv

RT: 17.48 min Scan# 4522

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

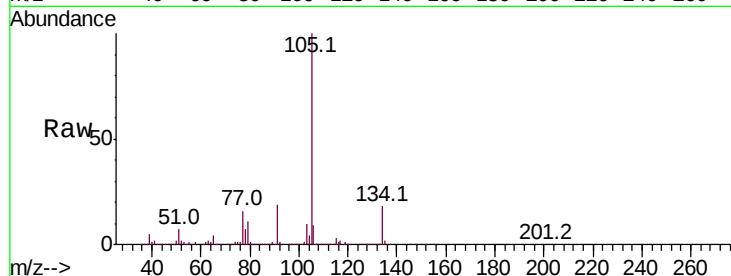
ClientSampleId :

Tot Ion:105 Resp: 4715825

Ion Ratio Lower Upper

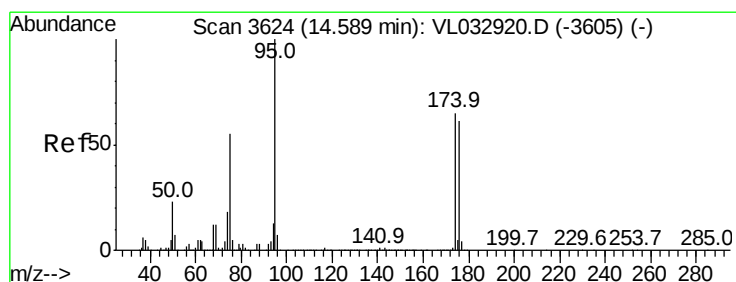
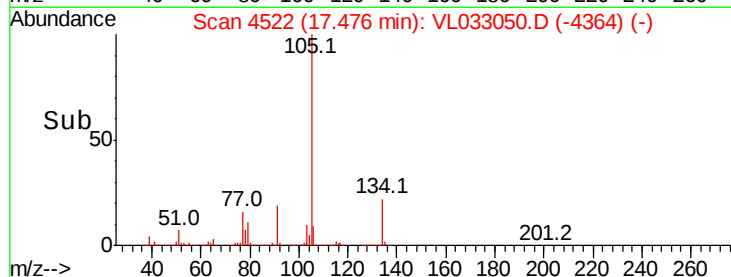
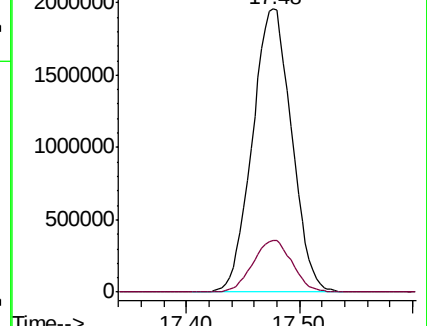
105 100

134 18.3 14.6 21.8



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: 8.481 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

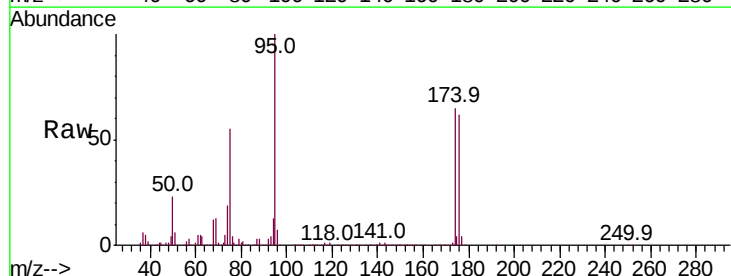
Tgt Ion: 95 Resp: 1735358

Ion Ratio Lower Upper

95 100

174 65.6 51.4 77.0

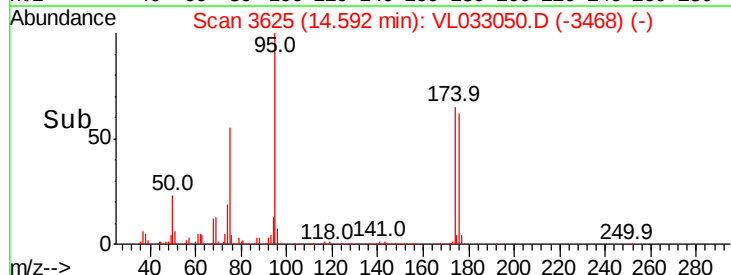
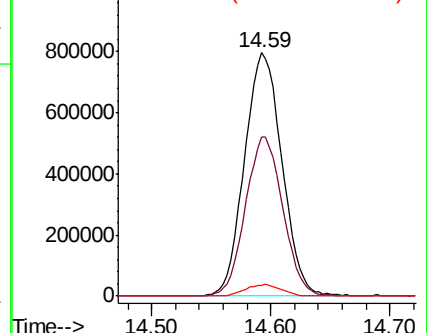
175 4.7 3.8 5.6

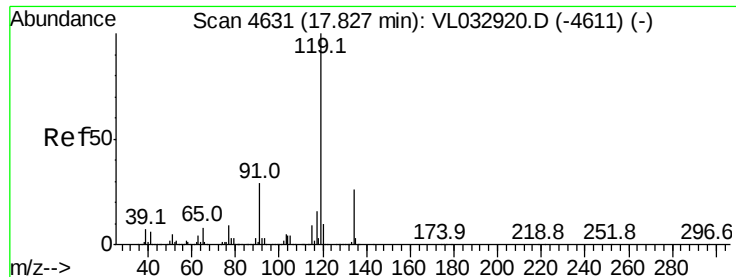


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

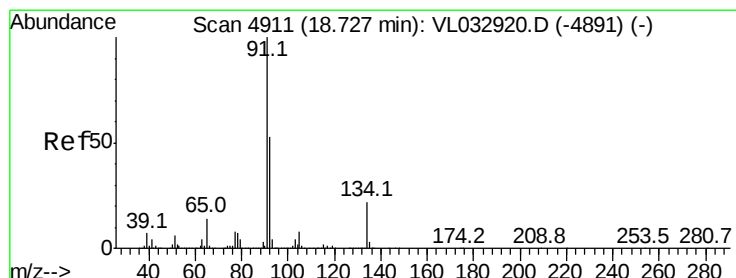
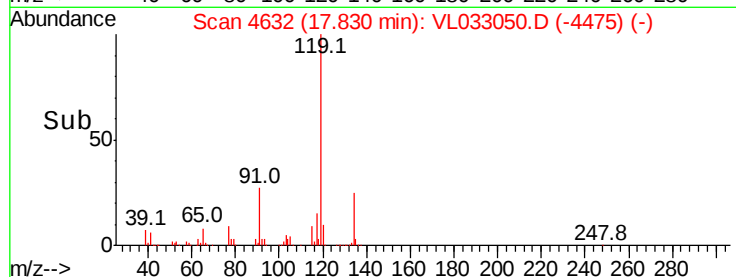
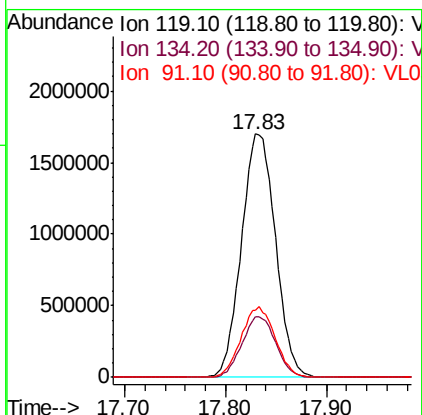
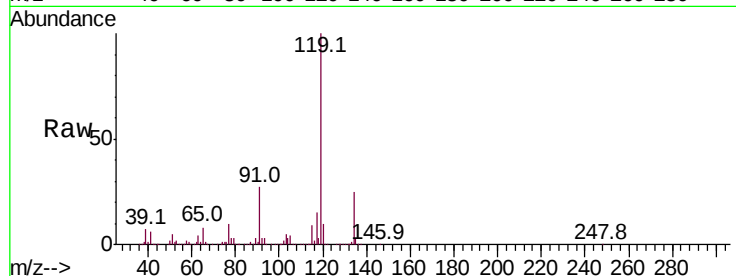




#69
 p-Isopropyltoluene
 Concen: 9.483 ppbv
 RT: 17.83 min Scan# 4632
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

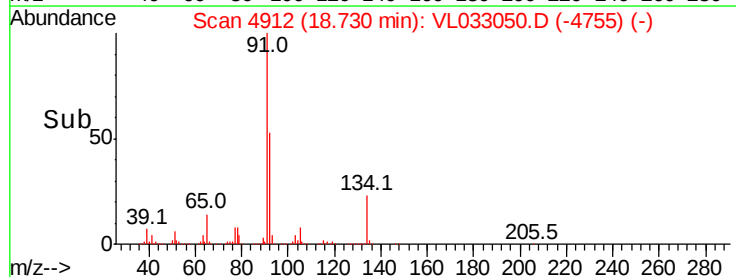
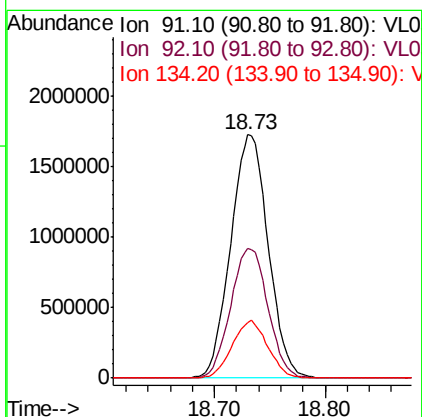
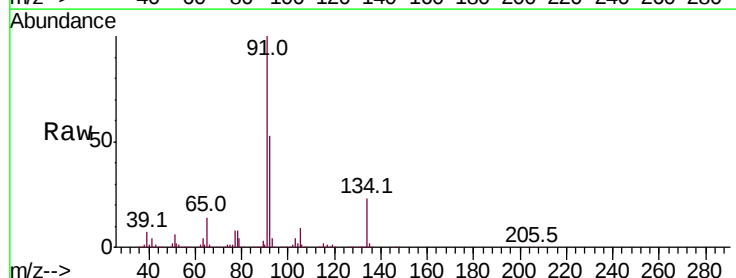
Instrument :
 MSVOA_L
 ClientSampled :

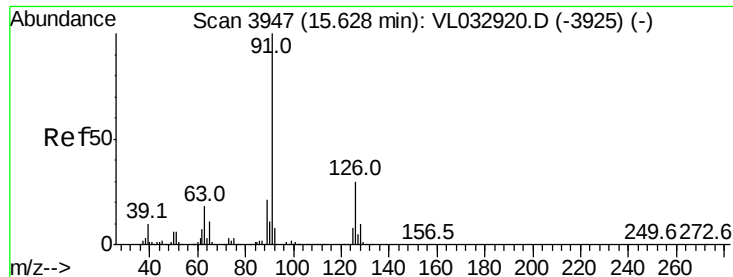
Tot Ion:119 Resp: 3964323
 Ion Ratio Lower Upper
 119 100
 134 24.8 20.2 30.2
 91 29.0 22.9 34.3



#70
 n-Butylbenzene
 Concen: 10.526 ppbv
 RT: 18.73 min Scan# 4912
 Delta R.T. 0.00 min
 Lab File: VL033050.D
 Acq: 21 Dec 2018 11:49

Tgt Ion: 91 Resp: 4048309
 Ion Ratio Lower Upper
 91 100
 92 53.2 42.7 64.1
 134 22.5 18.0 27.0





#71

2-Chlorotoluene

Concen: 9.664 ppbv

RT: 15.63 min Scan# 3949

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

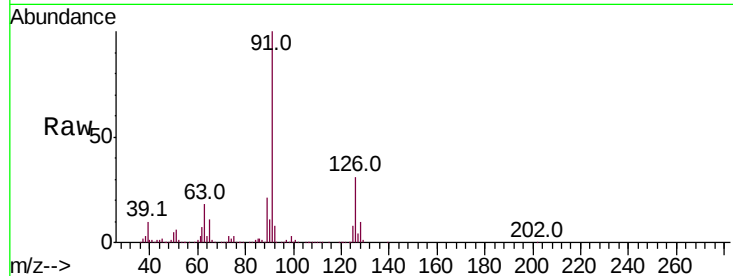
ClientSampleId :

Tot Ion: 91 Resp: 2712257

Ion Ratio Lower Upper

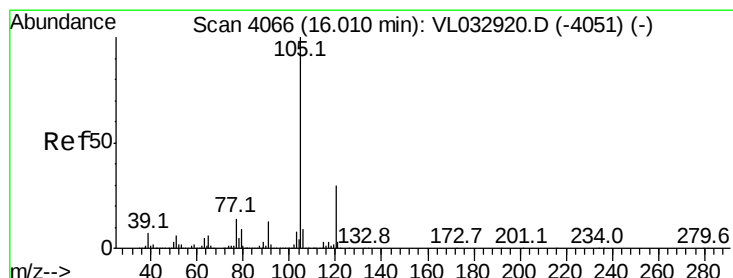
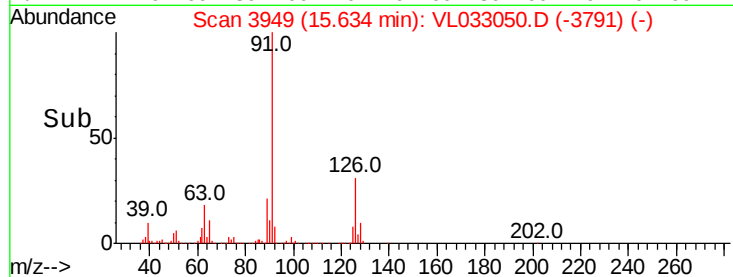
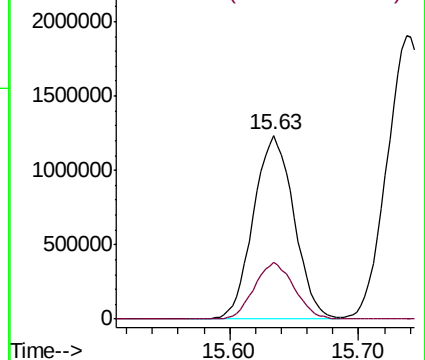
91 100

126 30.4 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: 9.870 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Tgt Ion:105 Resp: 2980667

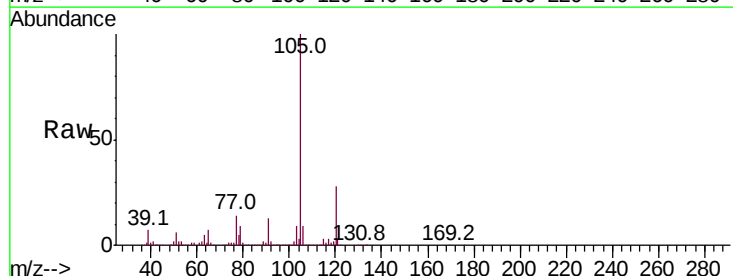
Ion Ratio Lower Upper

105 100

120 28.7 23.0 34.4

91 13.9 10.4 15.6

77 14.1 11.0 16.4

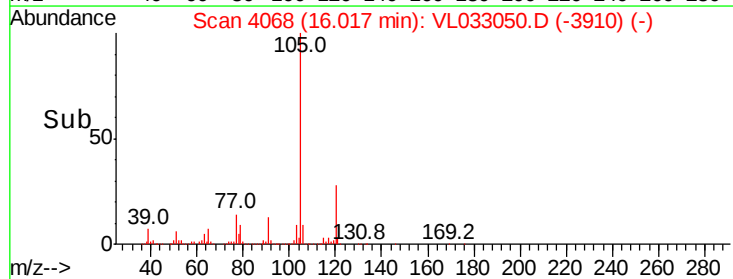
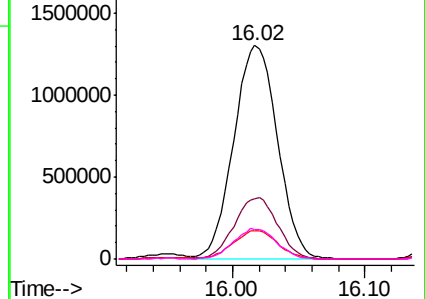


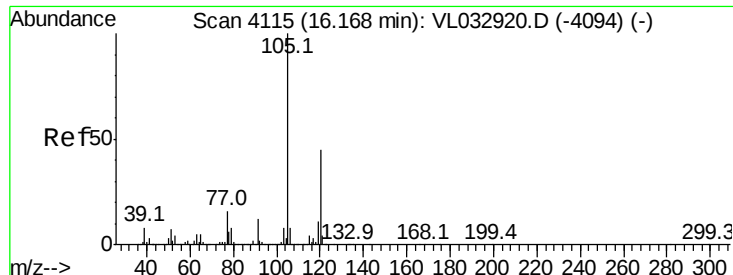
Abundance Ion 105.10 (104.80 to 105.80): V

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: 9.816 ppbv

RT: 16.17 min Scan# 4117

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

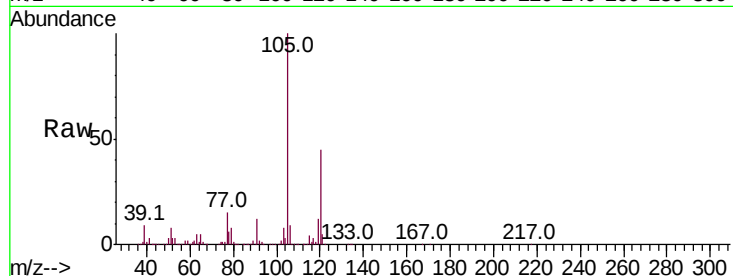
ClientSampled :

Tot Ion:105 Resp: 2894011

Ion Ratio Lower Upper

105 100

120 44.7 36.0 54.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.17

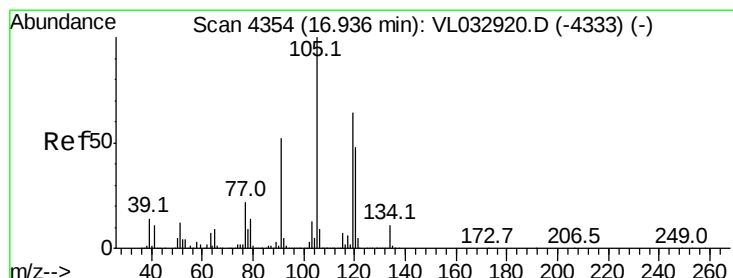
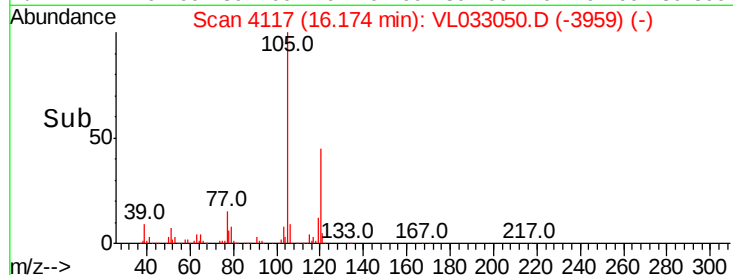
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.150 ppbv

RT: 16.94 min Scan# 4356

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Tgt Ion:105 Resp: 3045944

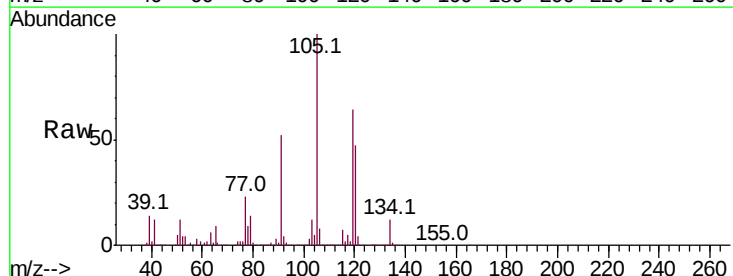
Ion Ratio Lower Upper

105 100

120 47.2 38.6 58.0

91 51.5 41.7 62.5

77 23.1 17.4 26.2



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

2000000

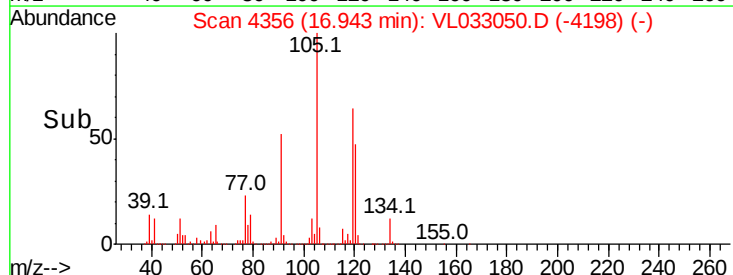
1500000

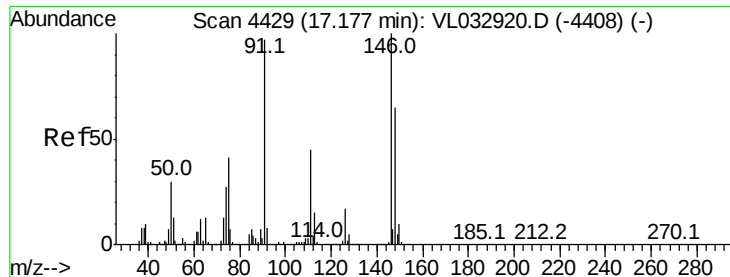
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.763 ppbv

RT: 17.18 min Scan# 4430

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampled :

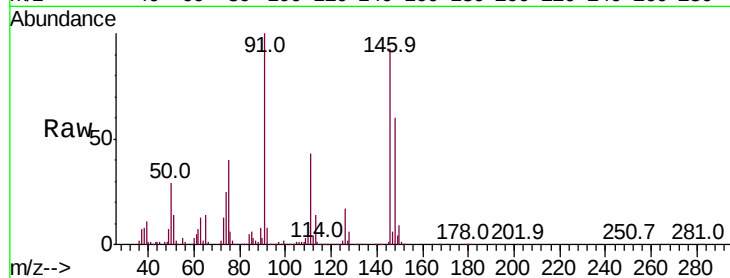
Tot Ion:146 Resp: 1717891

Ion Ratio Lower Upper

146 100

111 47.2 23.6 70.8

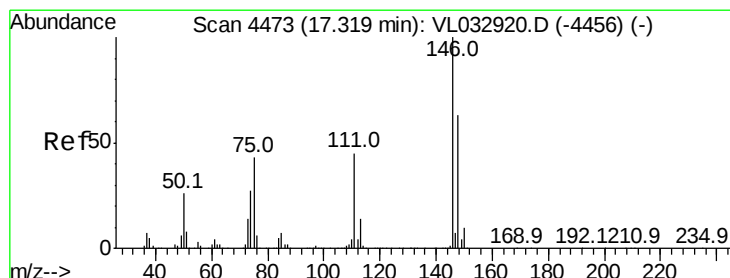
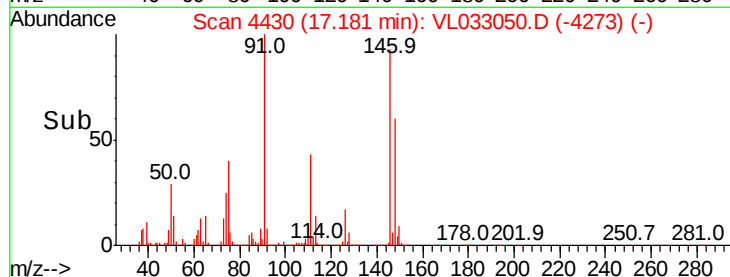
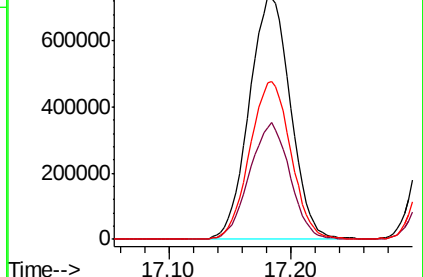
148 64.9 32.1 96.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.239 ppbv

RT: 17.33 min Scan# 4475

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

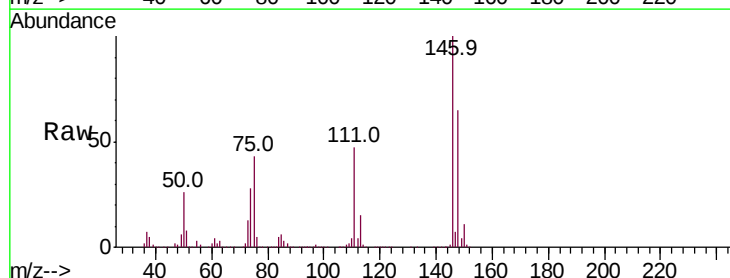
Tgt Ion:146 Resp: 1689985

Ion Ratio Lower Upper

146 100

111 45.2 22.8 68.4

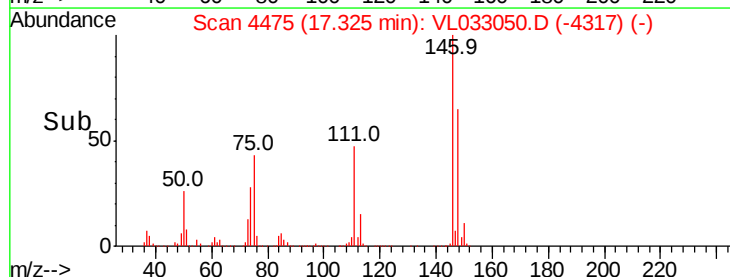
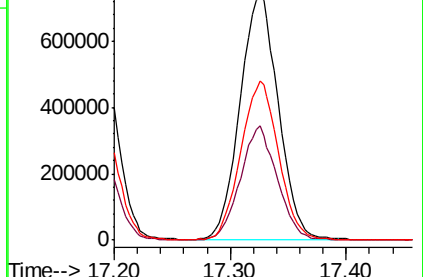
148 64.4 32.0 96.2

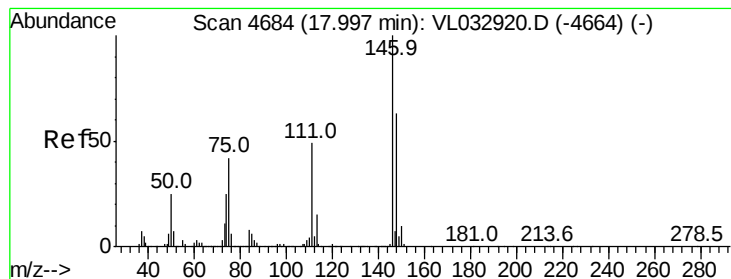


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 9.315 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampleId :

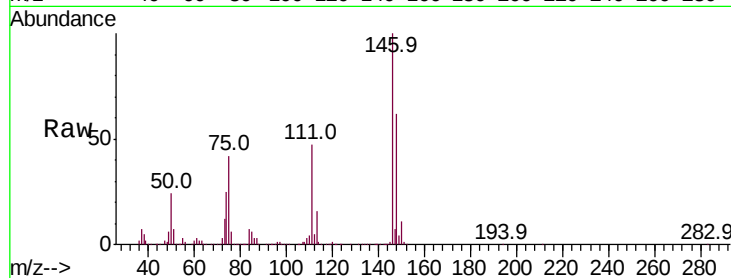
Tot Ion:146 Resp: 1705396

Ion Ratio Lower Upper

146 100

111 47.7 24.3 72.9

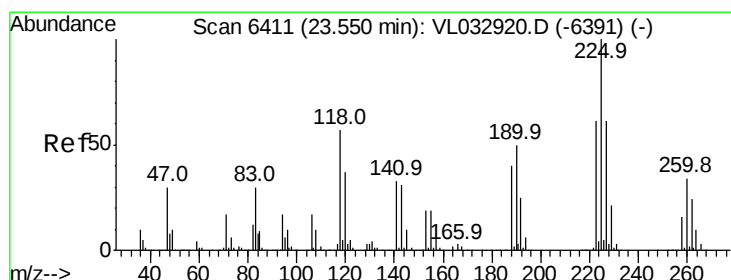
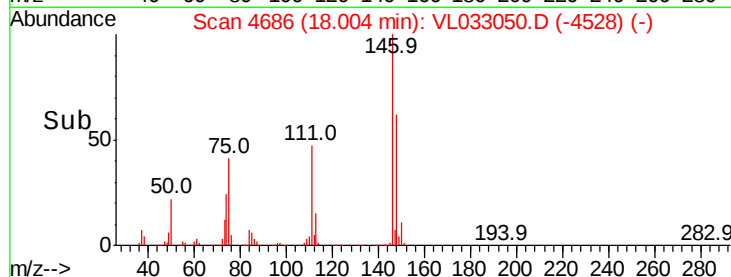
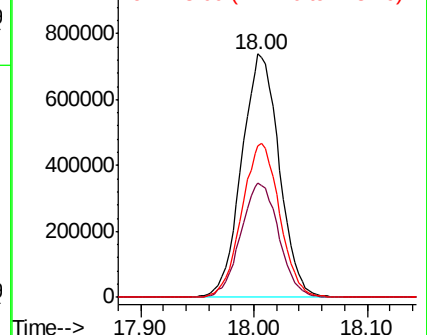
148 63.8 32.0 96.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.949 ppbv

RT: 23.56 min Scan# 6415

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

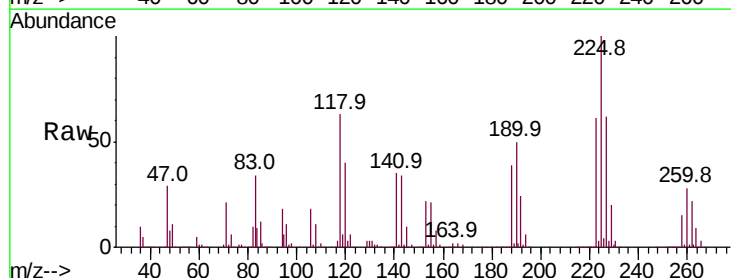
Tgt Ion:225 Resp: 1102324

Ion Ratio Lower Upper

225 100

223 62.6 50.6 75.8

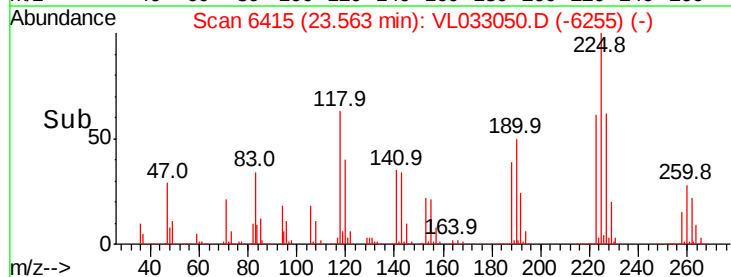
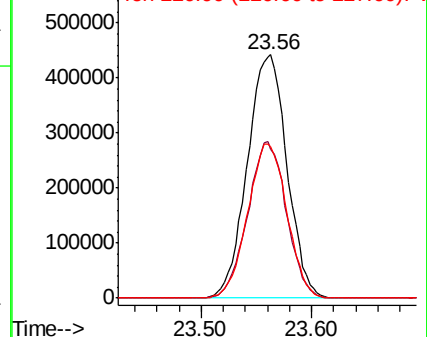
227 62.8 50.4 75.6

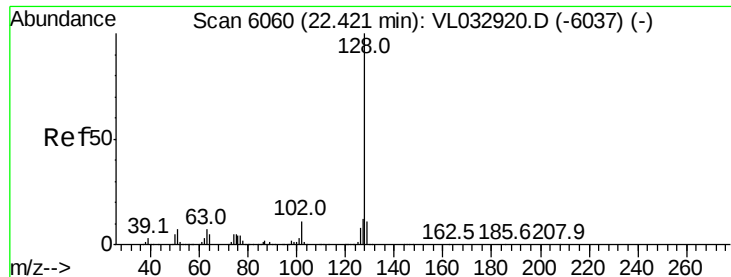


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.200 ppbv

RT: 22.43 min Scan# 6062

Delta R.T. 0.01 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampleId :

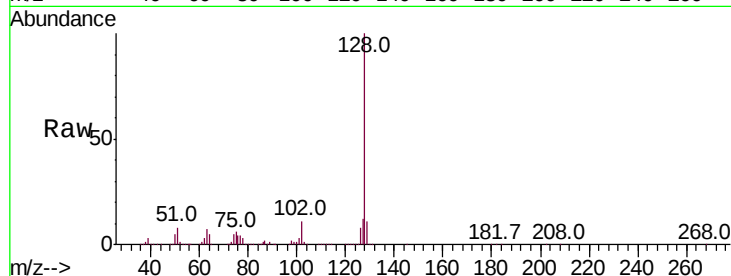
Tot Ion:128 Resp: 2407425

Ion Ratio Lower Upper

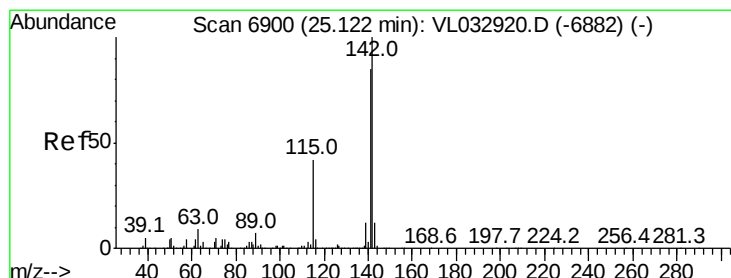
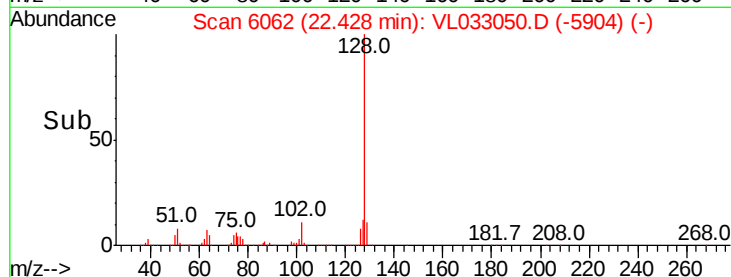
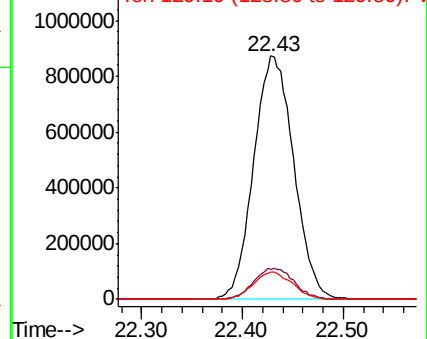
128 100

127 12.2 9.9 14.9

129 11.4 8.6 13.0



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



#80

Naphthalene, 2-methyl-

Concen: 13.424 ppbv

RT: 25.13 min Scan# 6901

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

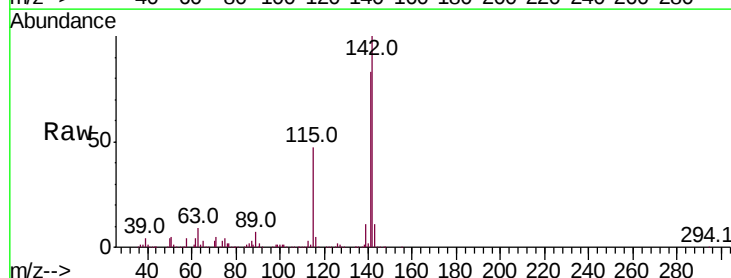
Tgt Ion:142 Resp: 616509

Ion Ratio Lower Upper

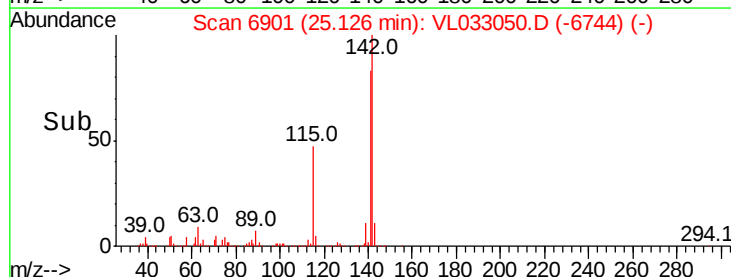
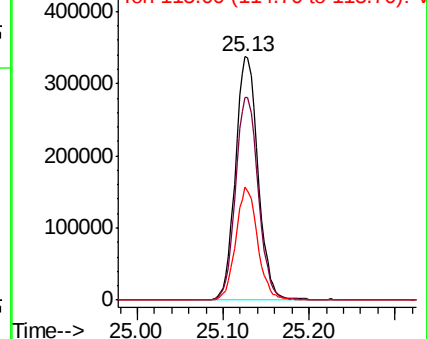
142 100

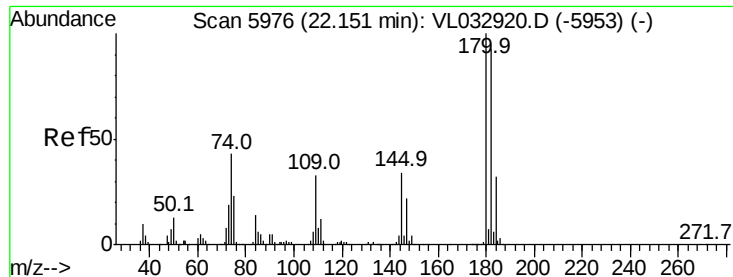
141 84.2 68.2 102.2

115 44.5 35.1 52.7



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: 10.272 ppbv

RT: 22.15 min Scan# 5976

Delta R.T. 0.00 min

Lab File: VL033050.D

Acq: 21 Dec 2018 11:49

Instrument :

MSVOA_L

ClientSampleId :

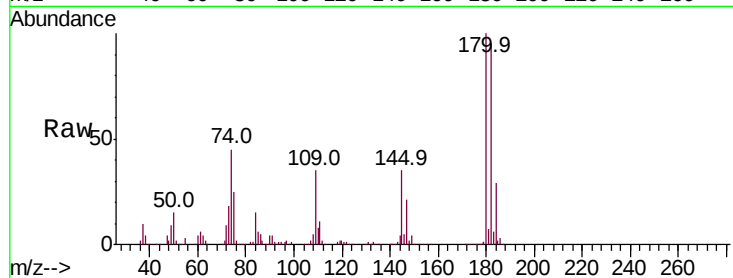
Tot Ion:180 Resp: 1170945

Ion Ratio Lower Upper

180 100

182 95.9 77.0 115.6

184 30.2 24.3 36.5



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

