

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030819\
 Data File : VL033268.D
 Acq On : 8 Mar 2019 22:08
 Operator : SY/AP
 Sample : 0.4 PPB MDL
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

Quant Time: Mar 09 03:45:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Mar 09 03:32:03 2019
 QLast Update : Sat Mar 09 03:32:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1046916	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2273790	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2285403	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1827994	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	75991	0.384	ppbv	97
3) Chlorodifluoromethane	3.02	51	44608	0.376	ppbv	96
4) Chloromethane	3.17	50	24028	0.388	ppbv	93
5) Vinyl Chloride	3.29	62	20903	0.337	ppbv	98
6) Bromomethane	3.52	94	15501	0.406	ppbv	85
7) Chloroethane	3.60	64	7877	0.351	ppbv #	86
8) Dichlorotetrafluoroethane	3.22	85	60520	0.391	ppbv	95
9) Propene	3.03	41	19511	0.372	ppbv	99
10) Heptane	8.25	43	49658	0.347	ppbv	98
11) Trichlorofluoromethane	4.00	101	77896	0.451	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.55	101	51493	0.453	ppbv	92
13) Ethanol	3.66	45	4345	0.287	ppbv #	29
14) Bromoethene	3.79	108	20040	0.430	ppbv	97
15) Acetone	3.92	43	59493	0.479	ppbv	98
16) 1,3-Butadiene	3.37	39	16488	0.320	ppbv #	77
17) tert-Butyl alcohol	4.35	59	695	0.034	ppbv #	75
18) 1,1-Dichloroethene	4.35	96	20569	0.414	ppbv	97
19) Isopropyl Alcohol	4.04	45	27133	0.364	ppbv #	90
20) Methylene Chloride	4.41	84	25424	0.499	ppbv	96
21) Allyl Chloride	4.48	41	28993	0.389	ppbv	94
22) trans-1,2-Dichloroethene	4.96	96	20270	0.397	ppbv	90
23) Vinyl Acetate	5.16	43	61812	0.347	ppbv #	96
24) 1,1-Dichloroethane	5.09	63	52371	0.401	ppbv #	95
25) Ethyl Acetate	5.78	43	95963	0.404	ppbv	99
26) Hexane	5.78	57	44979	0.402	ppbv	94
27) Carbon Disulfide	4.62	76	41909	0.370	ppbv #	82
28) Methyl tert-Butyl Ether	5.13	73	52820	0.368	ppbv	97
29) Chloroform	5.85	83	41264	0.242	ppbv	99
30) Cyclohexane	7.25	84	16267	0.188	ppbv #	1
31) cis-1,2-Dichloroethene	5.64	61	38191	0.361	ppbv	97
32) 1,1,1-Trichloroethane	6.62	97	62864	0.390	ppbv	97
34) 2-Butanone	5.34	43	25983	0.189	ppbv #	55
35) Carbon Tetrachloride	7.13	117	53779	0.348	ppbv	89
36) Benzene	7.00	78	75846	0.387	ppbv	96
37) 1,2-Dichloroethane	6.41	62	35146	0.279	ppbv #	83
38) Trichloroethene	7.97	130	9791	0.129	ppbv	90
39) 1,2-Dichloropropane	7.74	63	13410	0.174	ppbv	97
40) 1,4-Dioxane	7.99	88	3591	0.127	ppbv #	1
41) Tetrahydrofuran	6.17	42	15165	0.195	ppbv #	48
42) Bromodichloromethane	7.91	83	67515	0.393	ppbv	96
43) Methyl Methacrylate	8.14	69	26999	0.343	ppbv	92

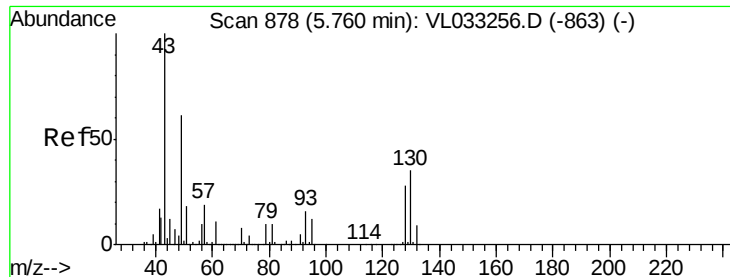
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030819\
 Data File : VL033268.D
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 0.4 PPB MDL

Quant Time: Mar 09 03:45:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Sat Mar 09 03:32:03 2019
 QLast Update : Sat Mar 09 03:32:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	131492	0.378	ppbv	94
45) t-1,3-Dichloropropene	9.42	75	17540	0.184	ppbv #	85
46) cis-1,3-Dichloropropene	8.83	75	37254	0.332	ppbv	85
47) 1,1,2-Trichloroethane	9.61	97	18548	0.225	ppbv	94
48) Dibromochloromethane	10.45	129	48838	0.361	ppbv	99
49) Bromoform	13.20	173	36788	0.306	ppbv	99
50) 4-Methyl-2-Pentanone	8.89	43	32187	0.155	ppbv #	21
51) 2-Hexanone	10.29	43	34849	0.225	ppbv #	74
52) Tetrachloroethene	11.36	164	11491	0.158	ppbv	86
53) Toluene	9.94	91	75440	0.336	ppbv	100
54) 1,2-Dibromoethane	10.75	107	47338	0.366	ppbv	91
56) 1,1,1,2-Tetrachloroethane	12.28	131	37702	0.394	ppbv #	1
57) Chlorobenzene	12.30	112	74581	0.445	ppbv	96
58) Ethyl Benzene	12.86	91	61399	0.199	ppbv	97
59) m/p-Xylene	13.15	91	108627	0.388	ppbv #	49
60) o-Xylene	13.85	91	93591	0.345	ppbv	99
61) Styrene	13.68	104	28532	0.155	ppbv #	26
62) Isopropylbenzene	14.83	105	132159	0.365	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	69320	0.398	ppbv	97
64) n-propylbenzene	15.72	120	9724	0.110	ppbv #	1
65) tert-Butylbenzene	16.91	119	99607	0.327	ppbv	88
66) Benzyl Chloride	17.15	91	9528	0.084	ppbv #	37
67) sec-Butylbenzene	17.46	105	146616	0.339	ppbv	95
69) p-Isopropyltoluene	17.81	119	102983	0.293	ppbv	93
70) n-Butylbenzene	18.72	91	128742	0.338	ppbv	96
71) 2-Chlorotoluene	15.61	91	92781	0.343	ppbv	100
72) 4-Ethyltoluene	16.00	105	91150	0.323	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.15	105	63326	0.236	ppbv	100
74) 1,2,4-Trimethylbenzene	16.92	105	97818	0.350	ppbv #	92
75) 1,3-Dichlorobenzene	17.16	146	36712	0.222	ppbv #	38
76) 1,4-Dichlorobenzene	17.31	146	56831	0.351	ppbv	93
77) 1,2-Dichlorobenzene	17.98	146	29117	0.183	ppbv #	23
78) Hexachloro-1,3-Butadiene	23.54	225	49842	0.413	ppbv	97
79) Naphthalene	22.42	128	40322	0.132	ppbv	97
80) Naphthalene,2-methyl-	25.13	142	2844	0.038	ppbv #	83
81) 1,2,4-Trichlorobenzene	22.13	180	4908	0.031	ppbv #	1

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

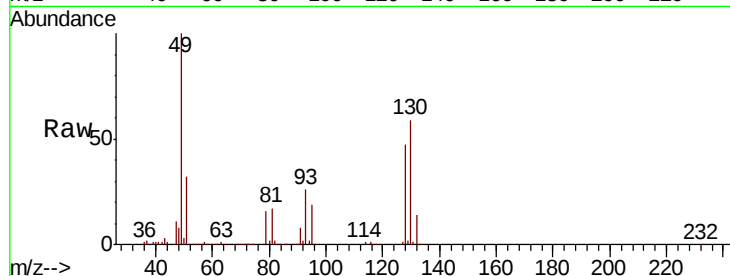
Tgt Ion: 49 Resp: 1046916

Ion Ratio Lower Upper

49 100

128 46.1 22.5 67.5

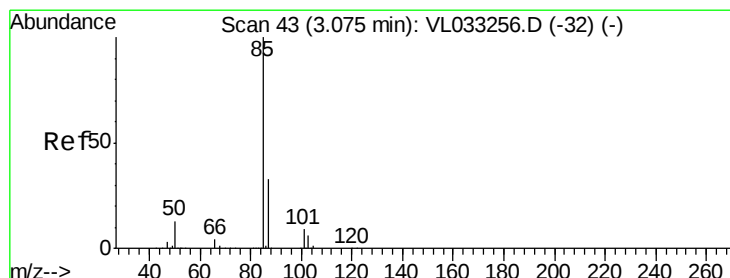
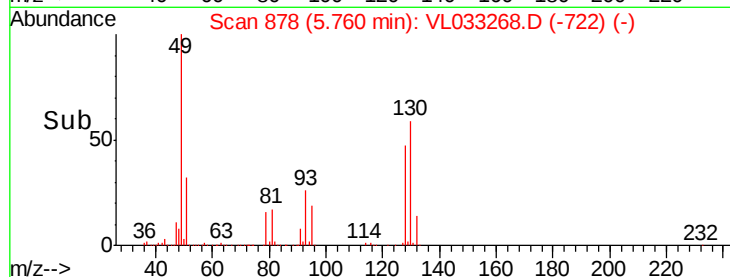
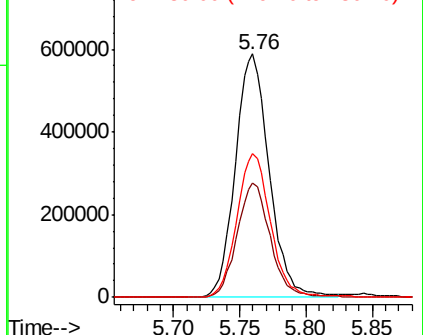
130 59.4 29.1 87.4



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: 0.384 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033268.D

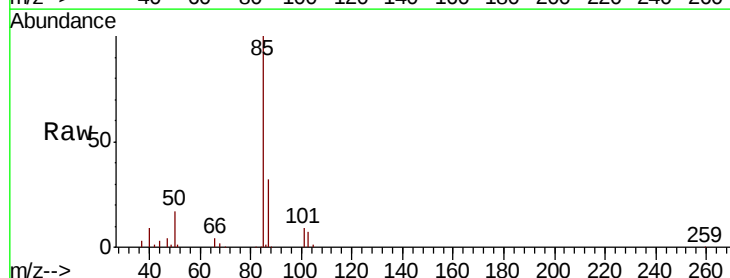
Acq: 8 Mar 2019 22:08

Tgt Ion: 85 Resp: 75991

Ion Ratio Lower Upper

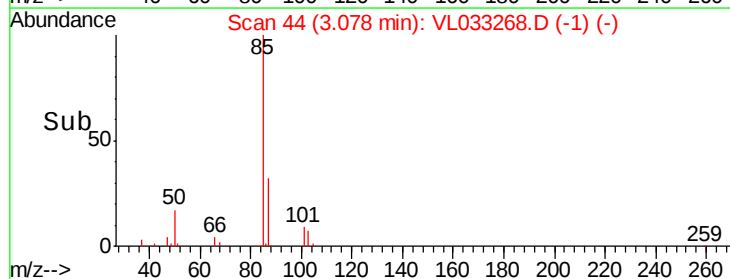
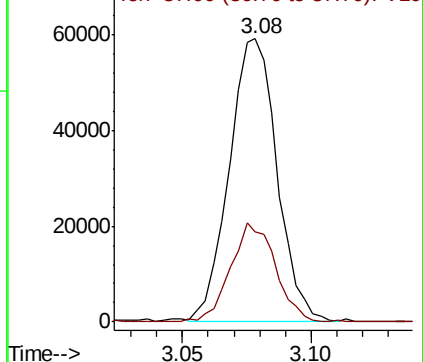
85 100

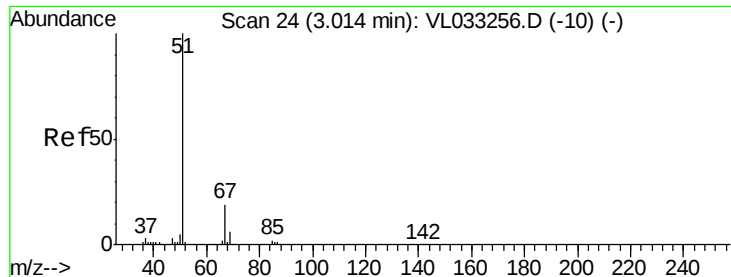
87 31.3 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.376 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

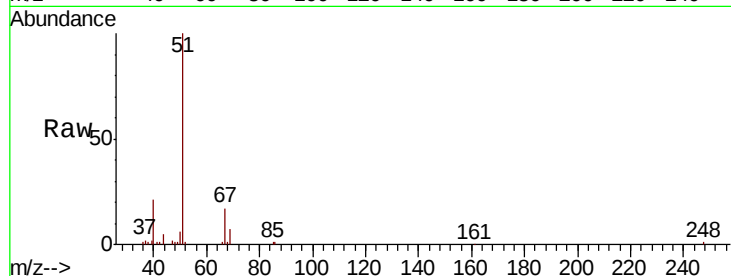
0.4 PPB MDL

Tgt Ion: 51 Resp: 44608

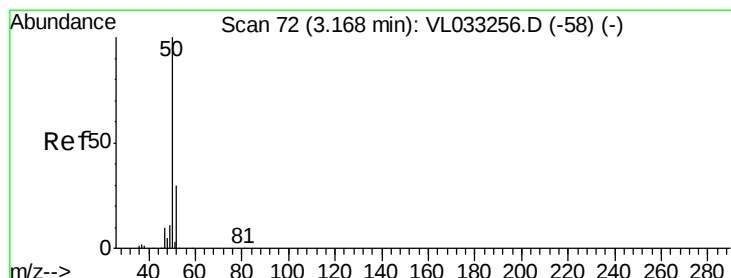
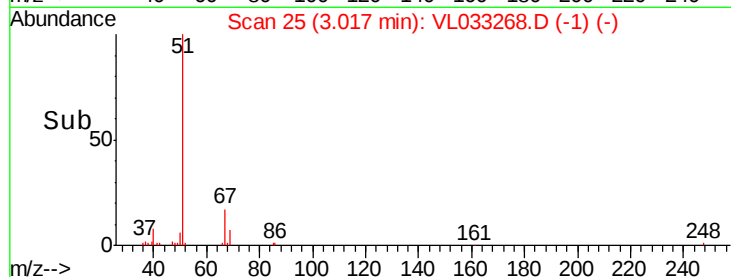
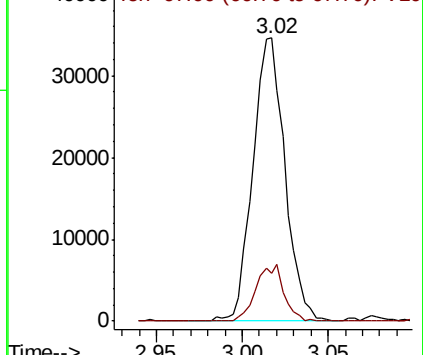
Ion Ratio Lower Upper

51 100

67 17.1 15.0 22.6



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



#4

Chloromethane

Concen: 0.388 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033268.D

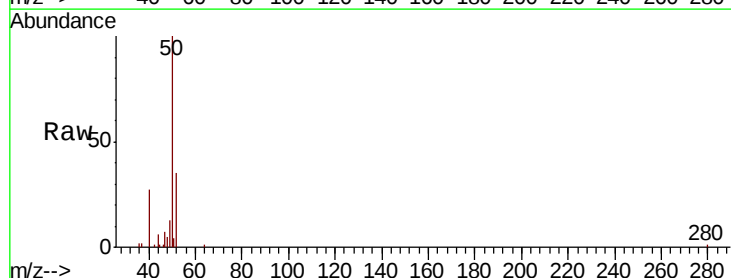
Acq: 8 Mar 2019 22:08

Tgt Ion: 50 Resp: 24028

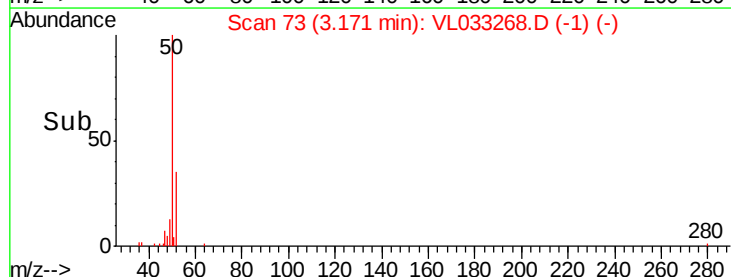
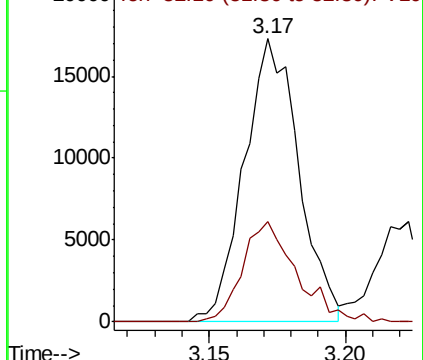
Ion Ratio Lower Upper

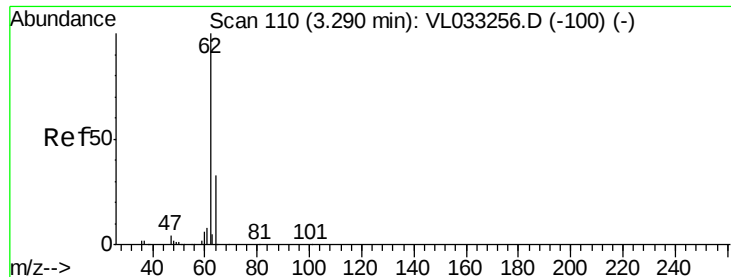
50 100

52 34.0 24.2 36.2



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





#5

Vinyl Chloride

Concen: 0.337 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

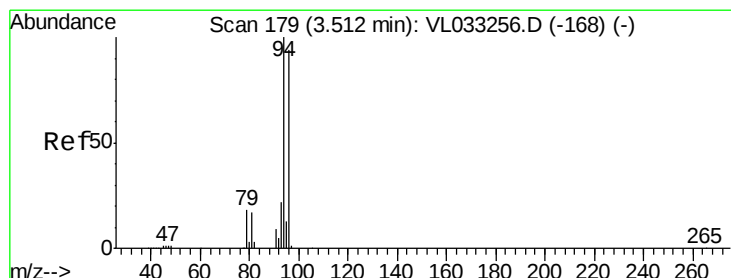
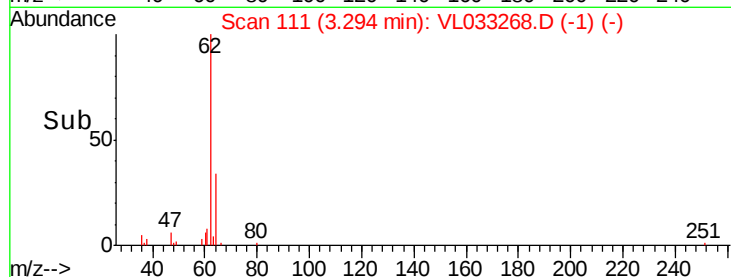
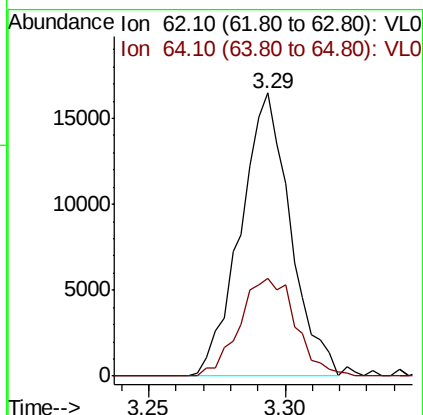
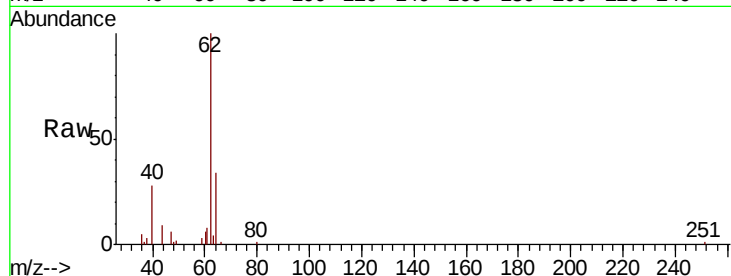
0.4 PPB MDL

Tgt Ion: 62 Resp: 20903

Ion Ratio Lower Upper

62 100

64 34.4 26.4 39.6



#6

Bromomethane

Concen: 0.406 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.01 min

Lab File: VL033268.D

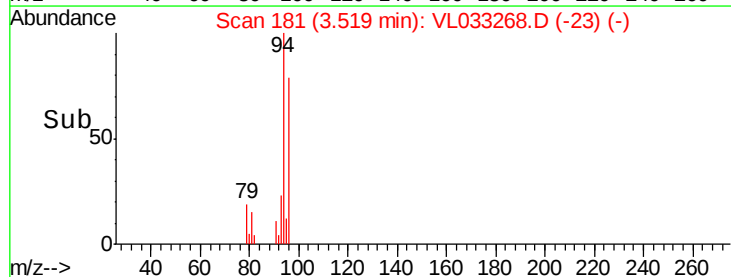
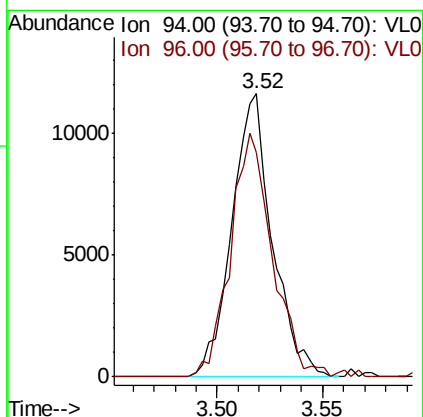
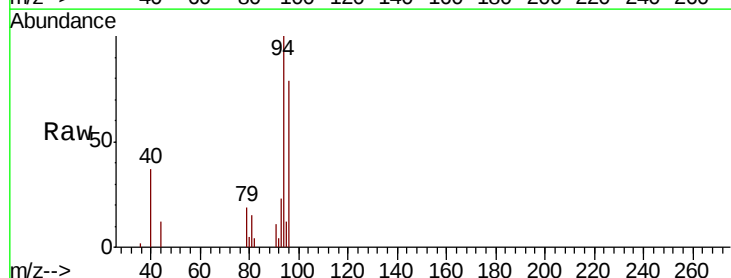
Acq: 8 Mar 2019 22:08

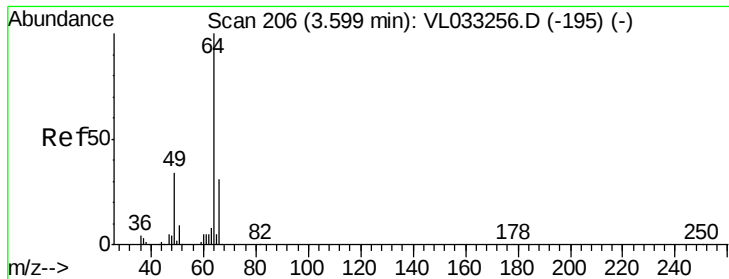
Tgt Ion: 94 Resp: 15501

Ion Ratio Lower Upper

94 100

96 79.2 75.3 112.9





#7

Chloroethane

Concen: 0.351 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

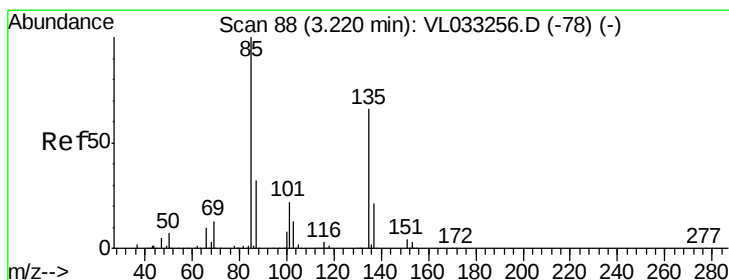
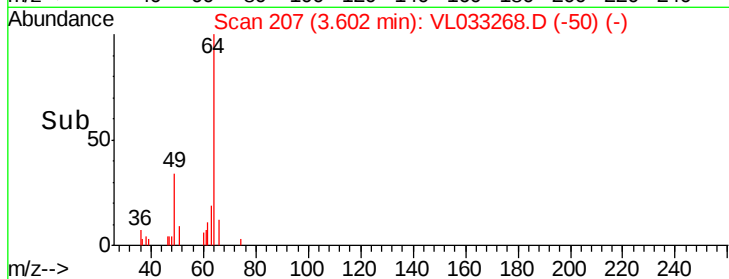
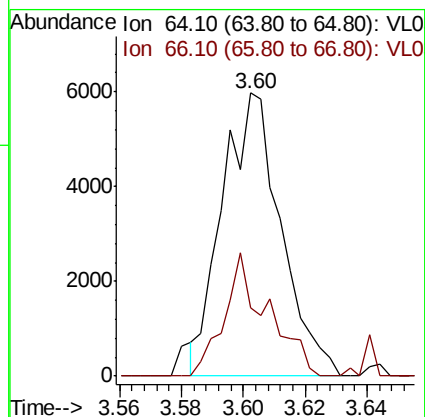
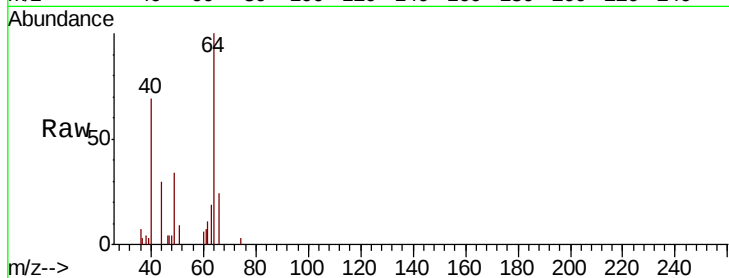
0.4 PPB MDL

Tgt Ion: 64 Resp: 7877

Ion Ratio Lower Upper

64 100

66 24.0 25.2 37.8#



#8

Dichlorotetrafluoroethane

Concen: 0.391 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033268.D

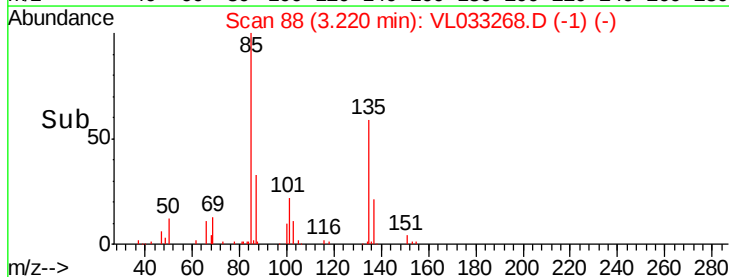
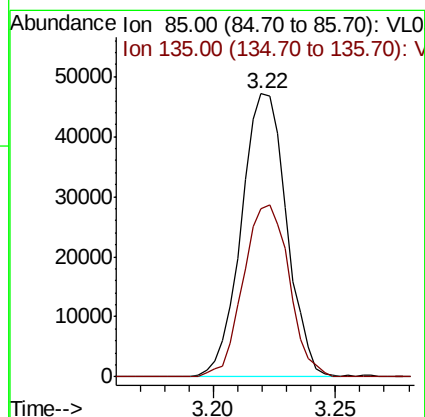
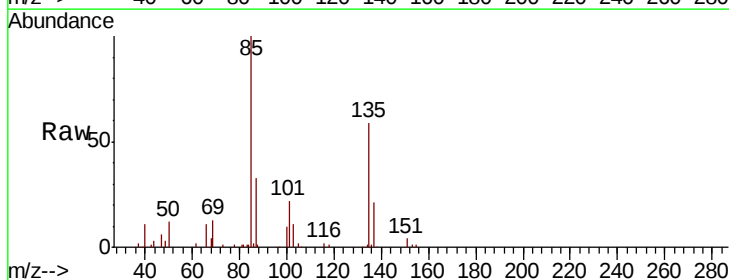
Acq: 8 Mar 2019 22:08

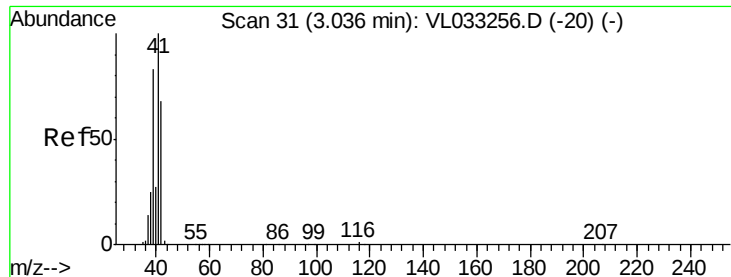
Tgt Ion: 85 Resp: 60520

Ion Ratio Lower Upper

85 100

135 61.5 52.3 78.5





#9

Propene

Concen: 0.372 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

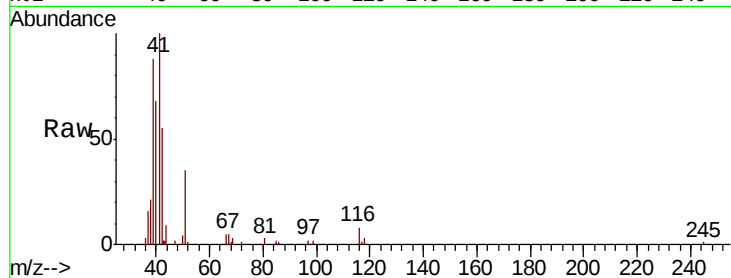
0.4 PPB MDL

Tgt Ion: 41 Resp: 19511

Ion Ratio Lower Upper

41 100

42 69.7 55.2 82.8



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

15000

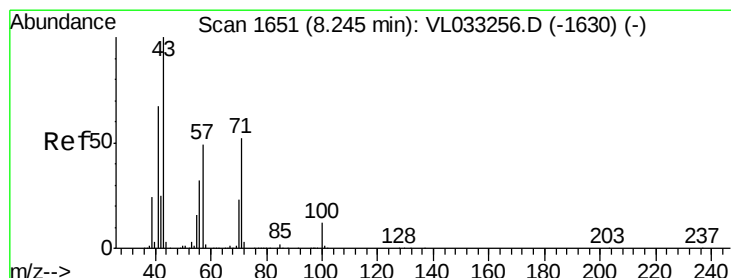
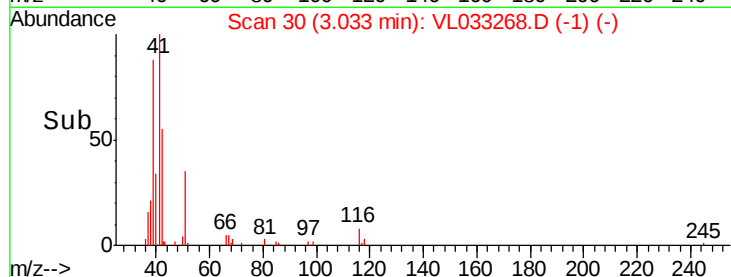
10000

5000

0

3.03

Time-->



#10

Heptane

Concen: 0.347 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. 0.00 min

Lab File: VL033268.D

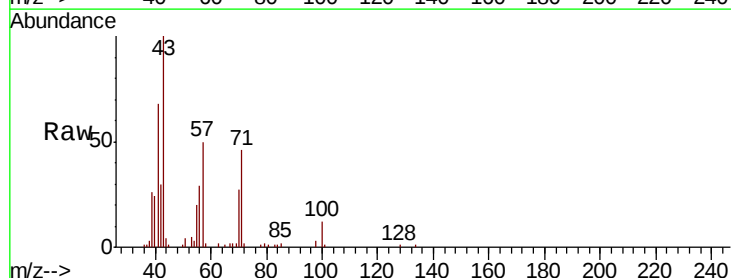
Acq: 8 Mar 2019 22:08

Tgt Ion: 43 Resp: 49658

Ion Ratio Lower Upper

43 100

57 51.4 40.0 60.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

30000

25000

20000

15000

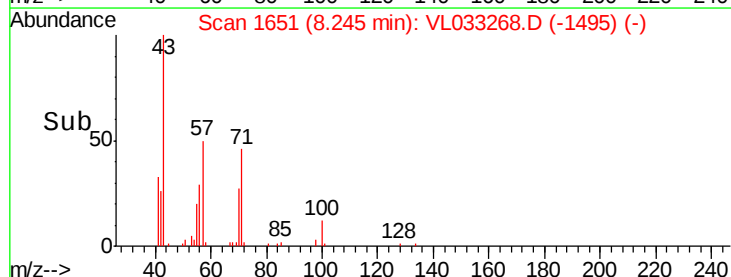
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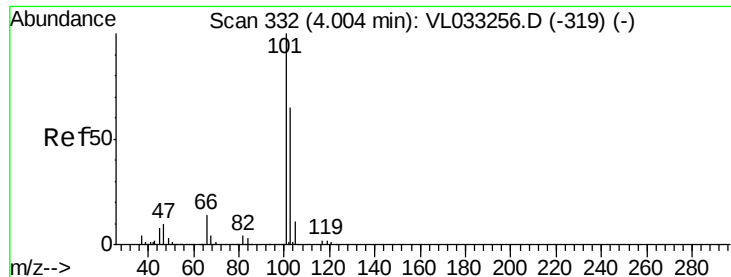
5000

0

8.25

Time-->

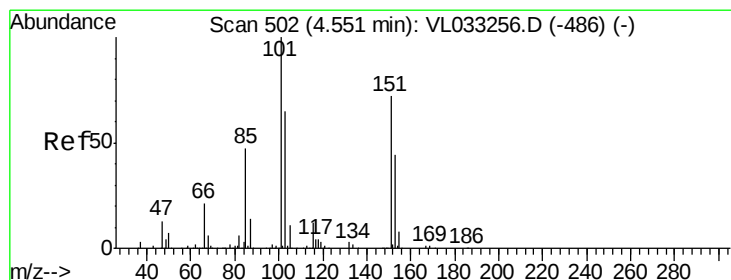
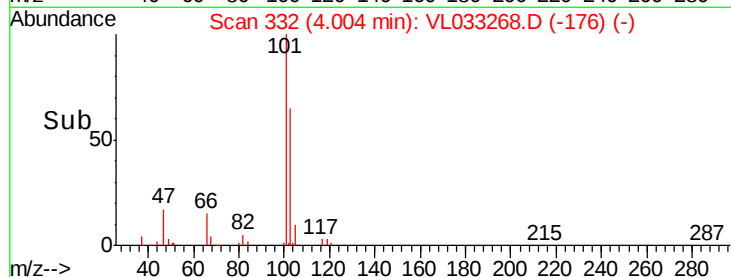
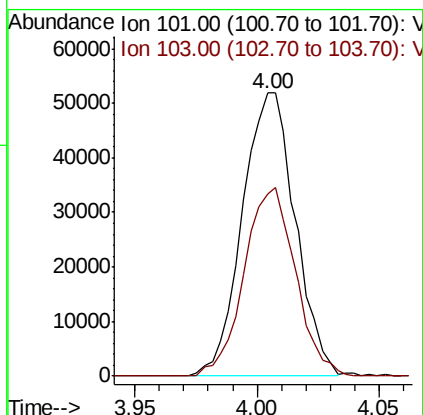
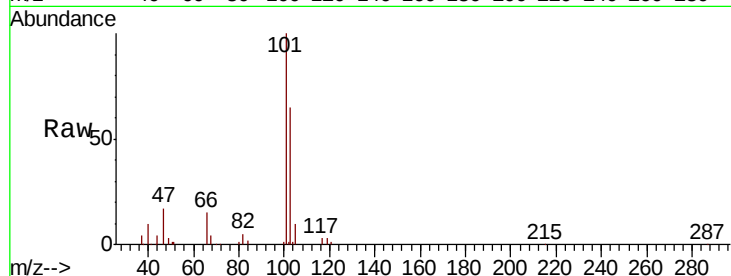




#11
 Trichlorofluoromethane
 Concen: 0.451 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

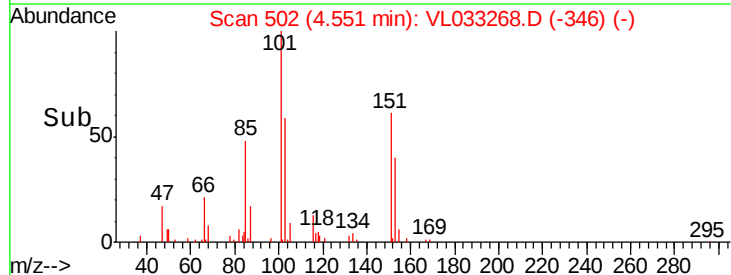
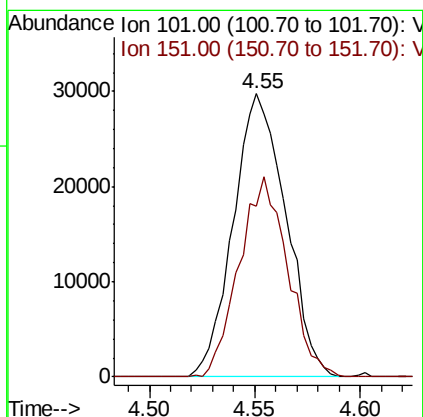
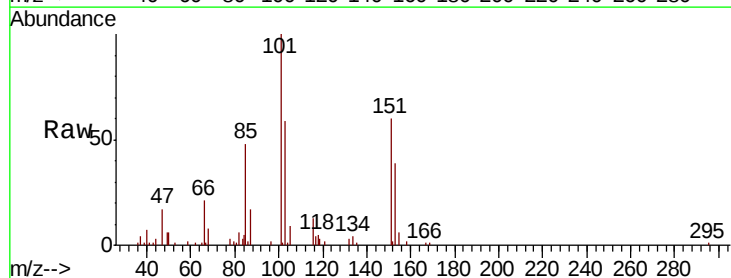
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

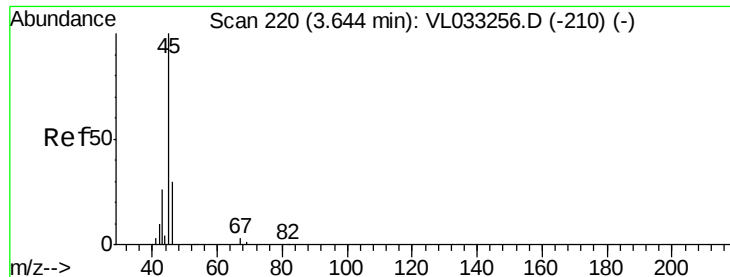
Tgt Ion:101 Resp: 77896
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.9 77.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.453 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion:101 Resp: 51493
 Ion Ratio Lower Upper
 101 100
 151 65.3 57.2 85.8





#13

Ethanol

Concen: 0.287 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.02 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

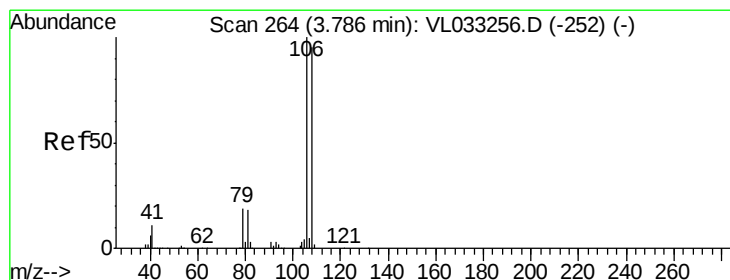
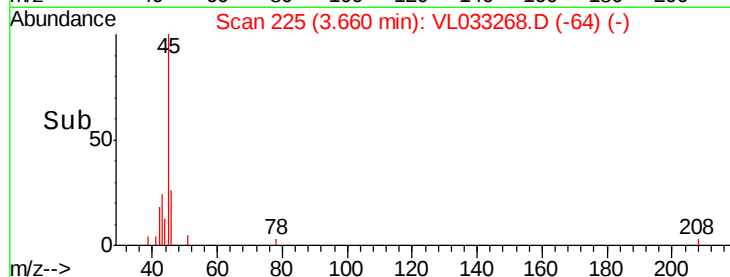
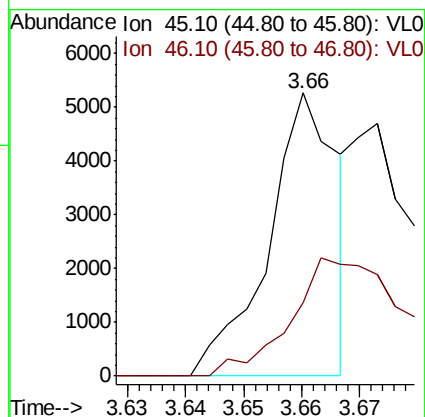
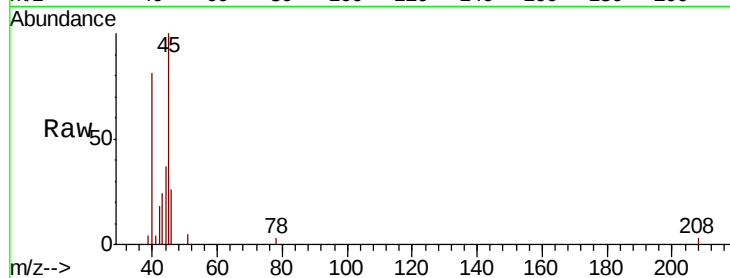
0.4 PPB MDL

Tgt Ion: 45 Resp: 4345

Ion Ratio Lower Upper

45 100

46 79.5 14.9 59.7#



#14

Bromoethene

Concen: 0.430 ppbv

RT: 3.79 min Scan# 265

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

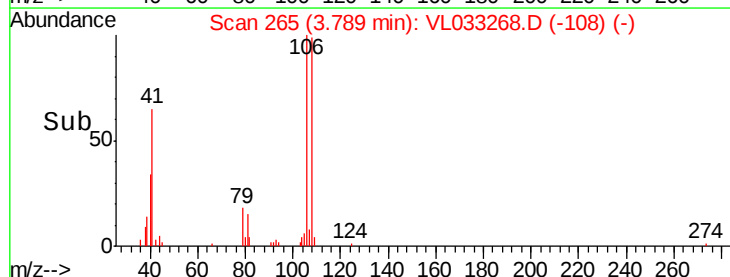
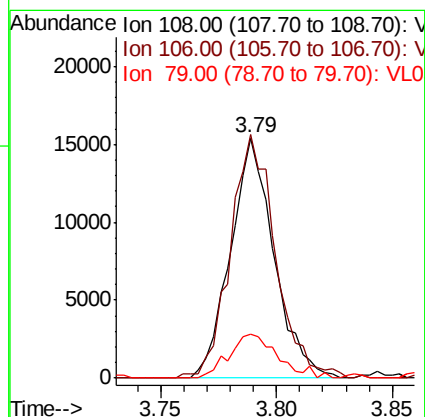
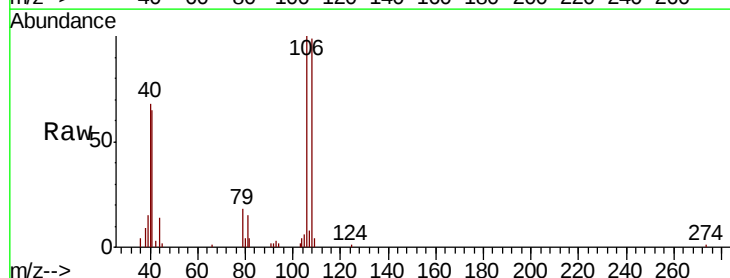
Tgt Ion: 108 Resp: 20040

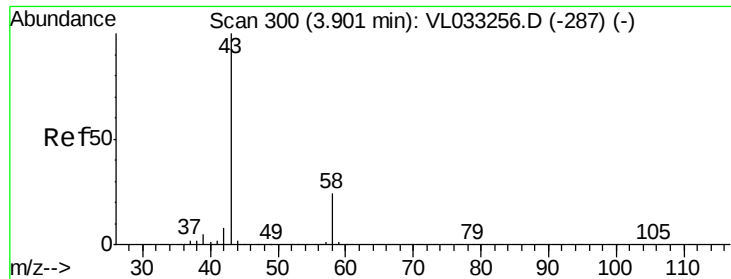
Ion Ratio Lower Upper

108 100

106 105.5 86.9 130.3

79 21.3 15.8 23.6





#15

Acetone

Concen: 0.479 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

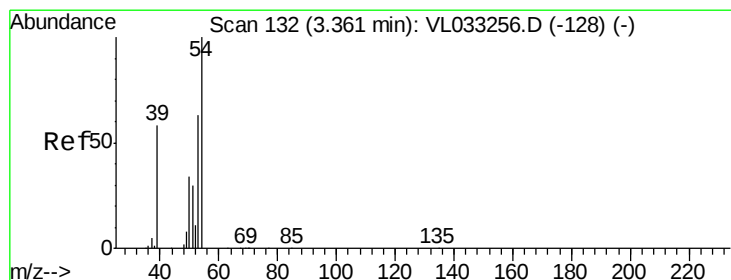
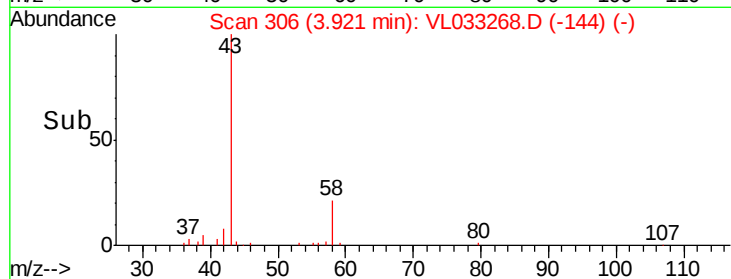
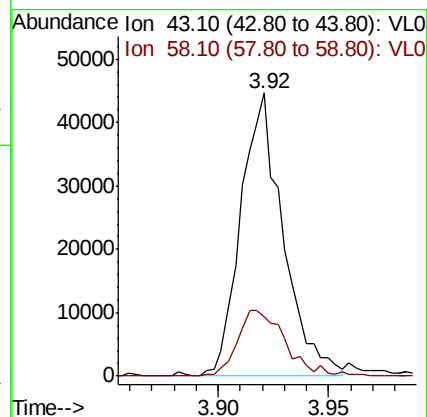
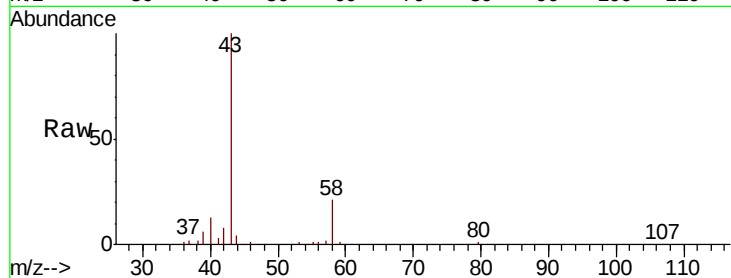
0.4 PPB MDL

Tgt Ion: 43 Resp: 59493

Ion Ratio Lower Upper

43 100

58 26.3 20.2 30.2



#16

1,3-Butadiene

Concen: 0.320 ppbv

RT: 3.37 min Scan# 134

Delta R.T. 0.01 min

Lab File: VL033268.D

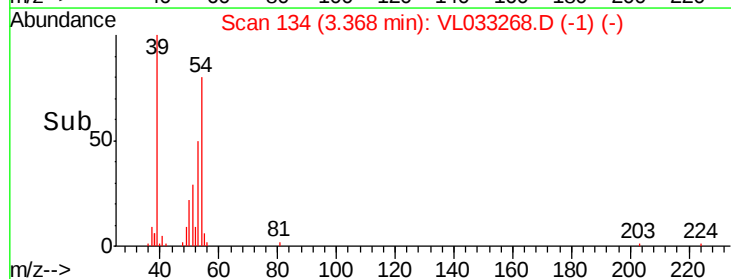
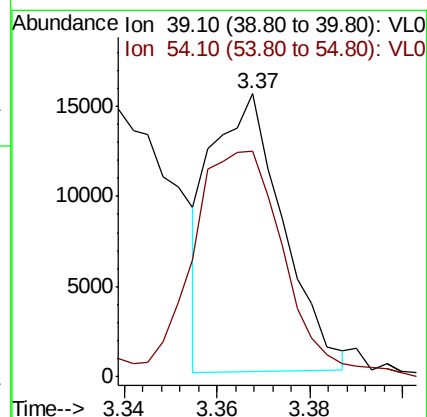
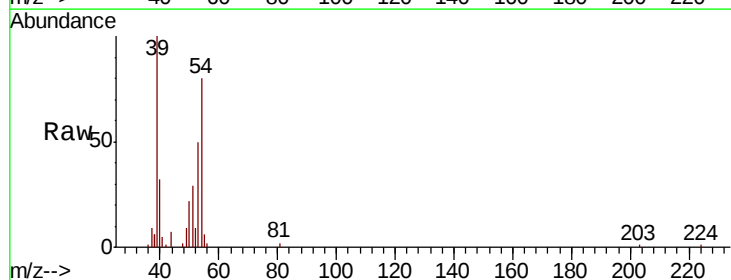
Acq: 8 Mar 2019 22:08

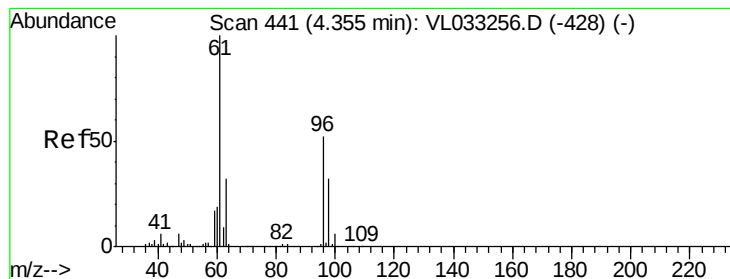
Tgt Ion: 39 Resp: 16488

Ion Ratio Lower Upper

39 100

54 106.5 68.6 103.0#





#17

tert-Butyl alcohol

Concen: 0.034 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

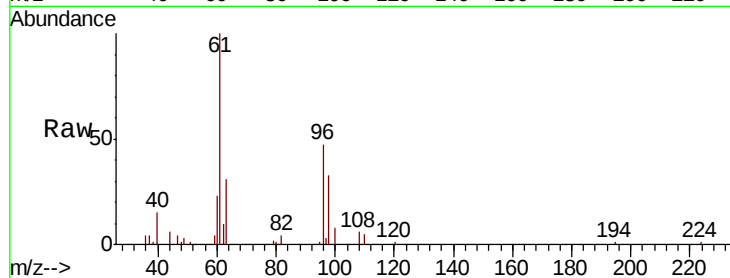
0.4 PPB MDL

Tgt Ion: 59 Resp: 695

Ion Ratio Lower Upper

59 100

57 0.0 7.2 10.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.35

1200

1000

800

600

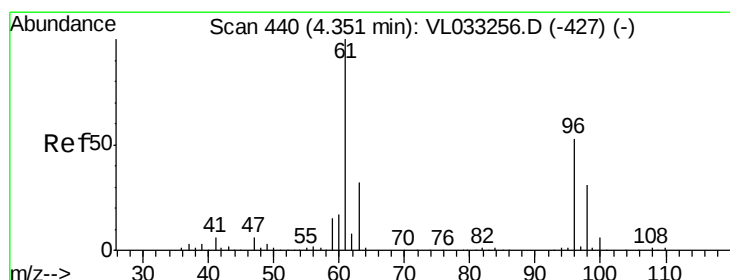
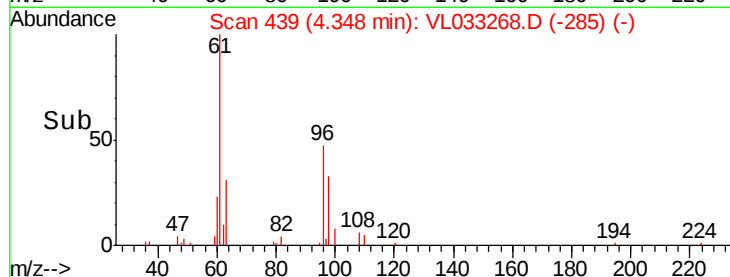
400

200

0

4.34 4.35 4.36

Time-->



#18

1,1-Dichloroethene

Concen: 0.414 ppbv

RT: 4.35 min Scan# 440

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

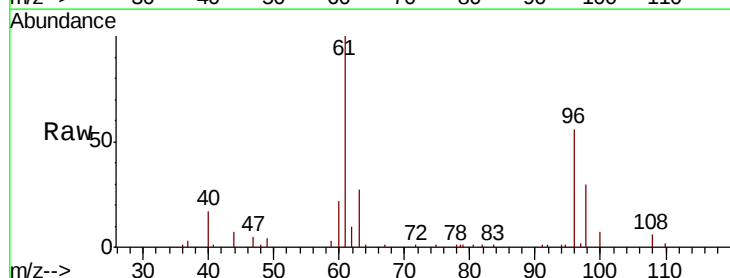
Tgt Ion: 96 Resp: 20569

Ion Ratio Lower Upper

96 100

61 191.6 150.6 226.0

98 54.0 47.0 70.4



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

30000

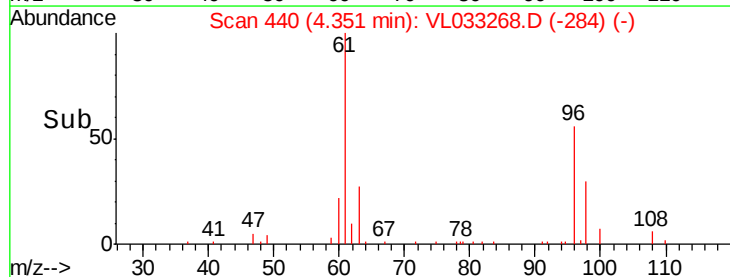
20000

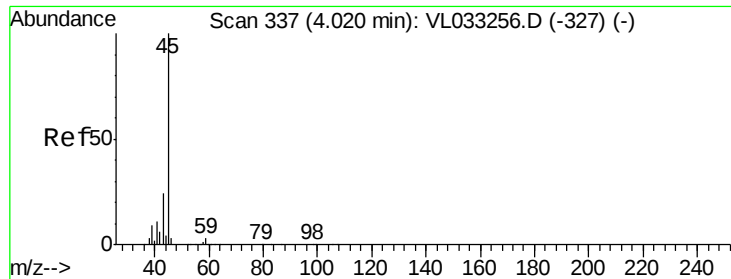
10000

0

4.30 4.35 4.40

Time-->





#19

Isopropyl Alcohol

Concen: 0.364 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

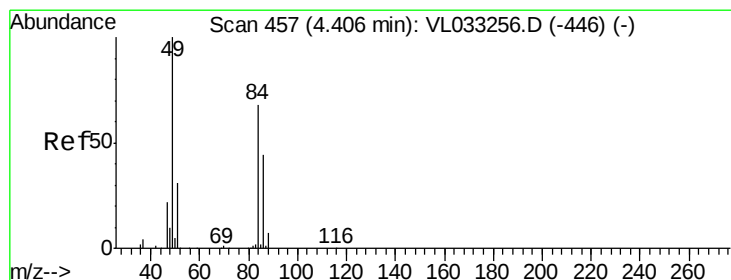
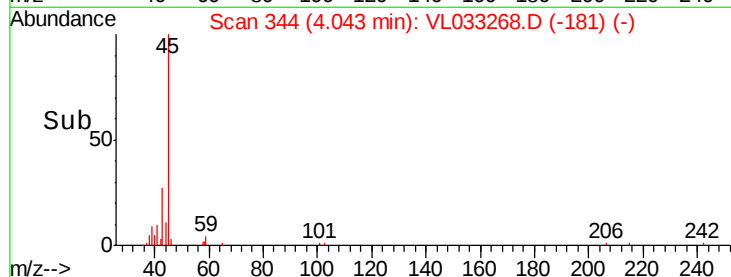
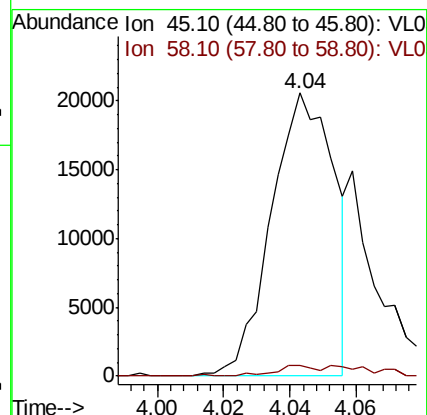
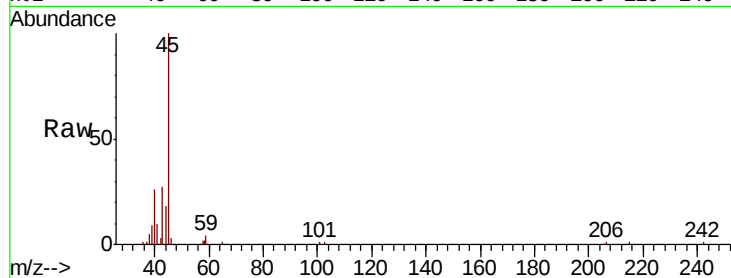
0.4 PPB MDL

Tgt Ion: 45 Resp: 27133

Ion Ratio Lower Upper

45 100

58 5.4 1.5 2.3#



#20

Methylene Chloride

Concen: 0.499 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Tgt Ion: 84 Resp: 25424

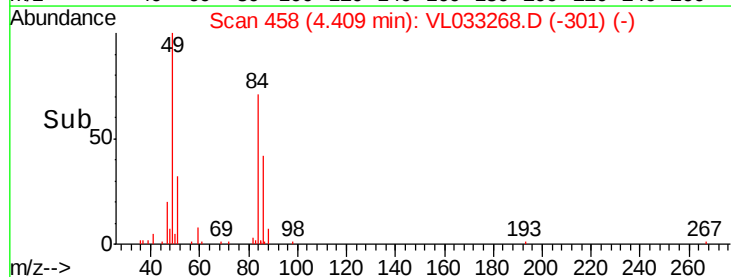
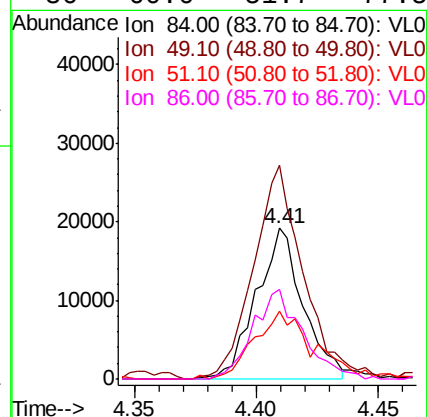
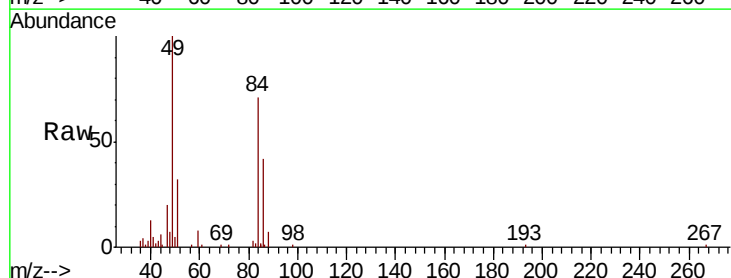
Ion Ratio Lower Upper

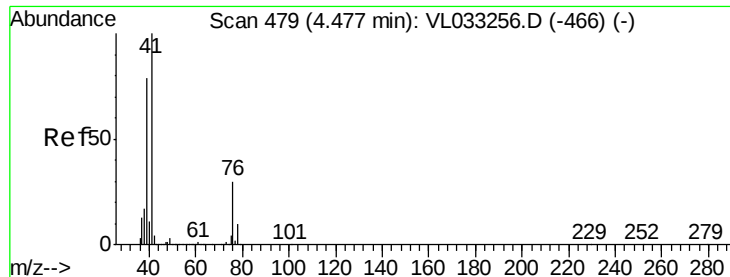
84 100

49 141.6 117.8 176.6

51 45.3 36.9 55.3

86 60.0 51.7 77.5

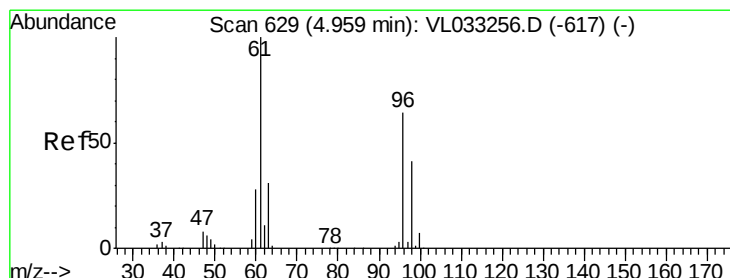
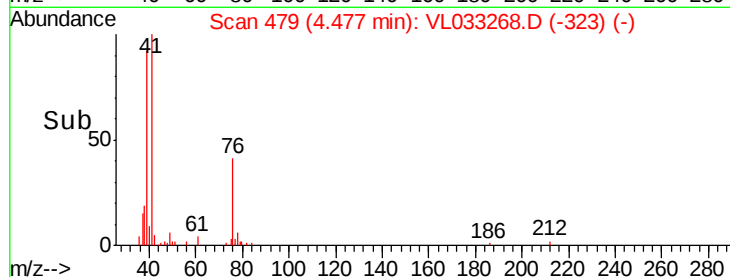
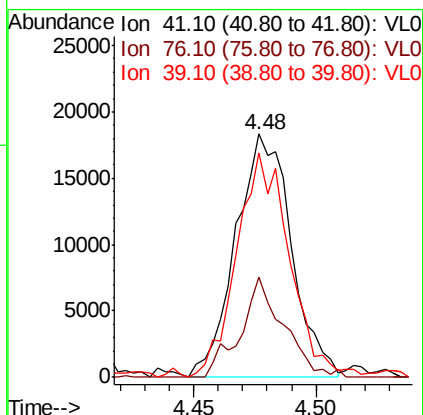
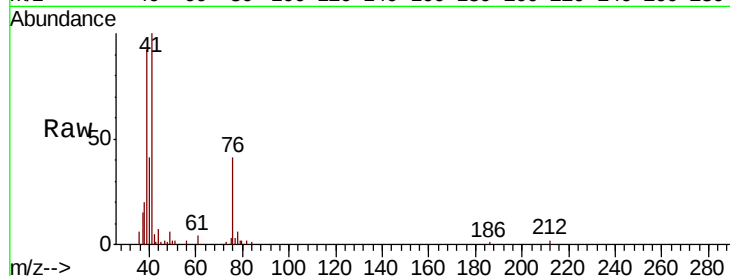




#21
 Allyl Chloride
 Concen: 0.389 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

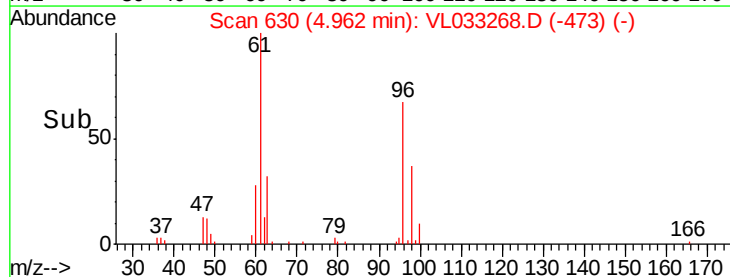
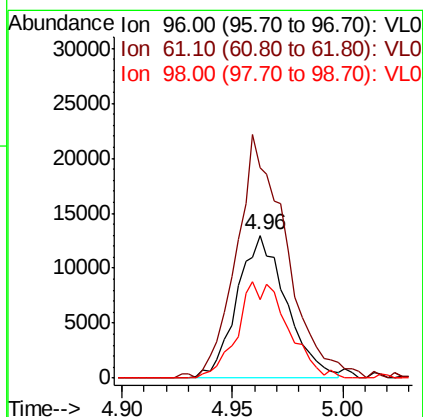
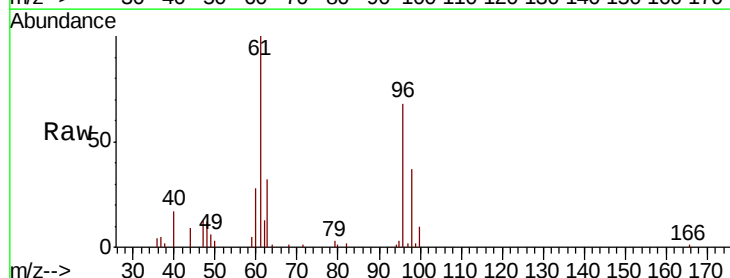
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

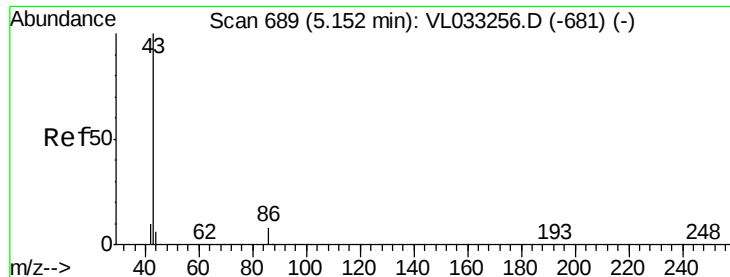
Tgt Ion: 41 Resp: 28993
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.5 36.7
 39 87.9 65.3 97.9



#22
 trans-1,2-Dichloroethene
 Concen: 0.397 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion: 96 Resp: 20270
 Ion Ratio Lower Upper
 96 100
 61 145.2 125.7 188.5
 98 54.7 52.1 78.1





#23

Vinyl Acetate

Concen: 0.347 ppbv

RT: 5.16 min Scan# 692

Delta R.T. 0.01 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

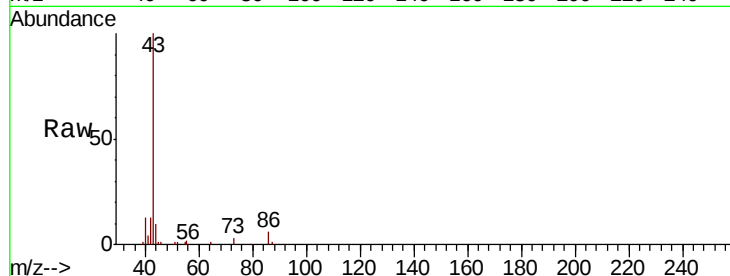
ClientSampleId :

0.4 PPB MDL

Tgt Ion: 43 Resp: 61812

Ion Ratio Lower Upper

43	100		
86	6.7	5.6	8.4
42	12.8	8.1	12.1#
44	6.3	4.3	6.5

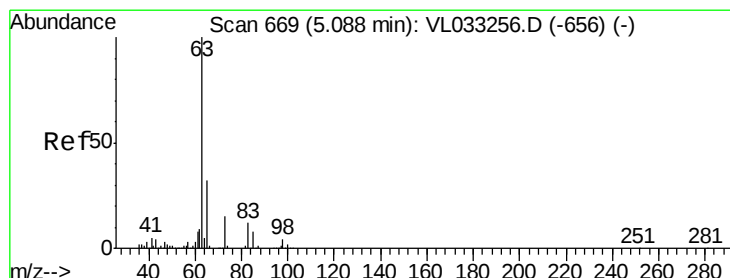
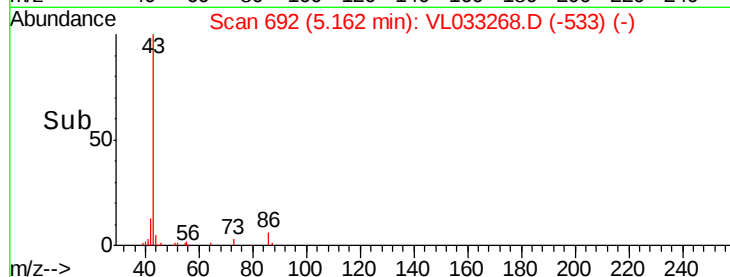
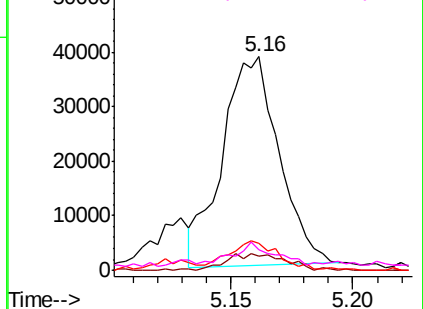


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.401 ppbv

RT: 5.09 min Scan# 669

Delta R.T. 0.00 min

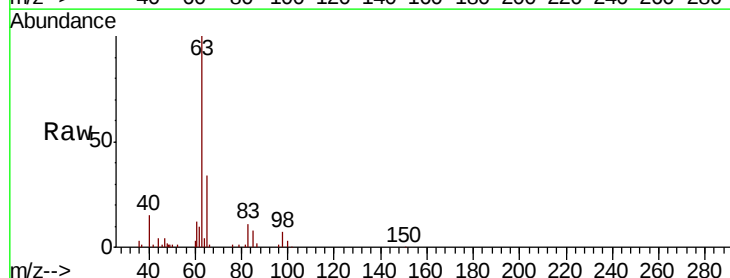
Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Tgt Ion: 63 Resp: 52371

Ion Ratio Lower Upper

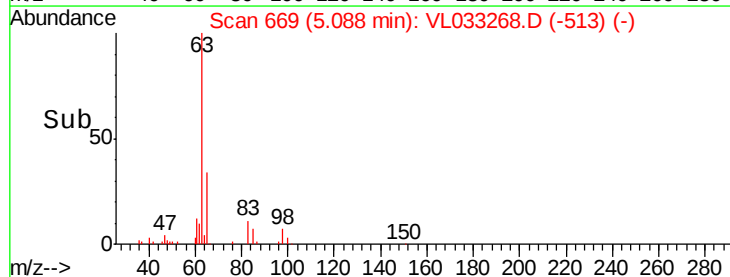
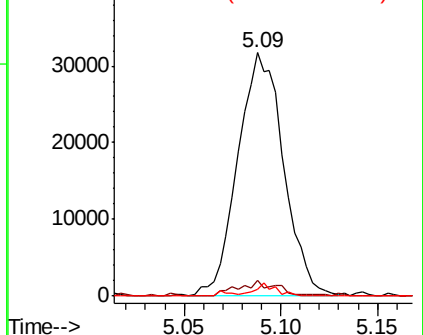
63	100		
98	6.7	2.1	6.2#
100	2.8	1.3	3.8

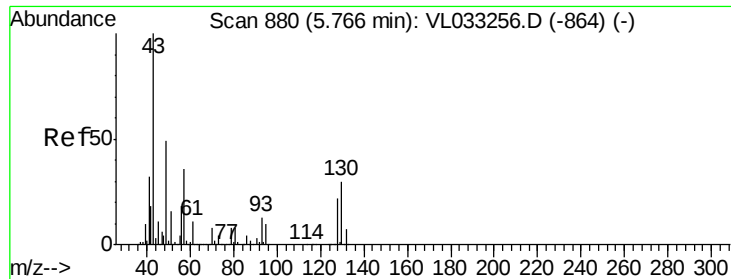


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

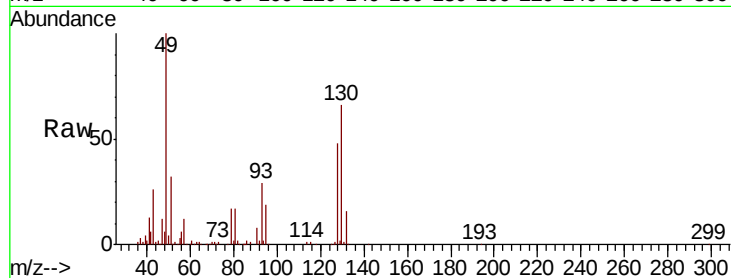




#25
Ethyl Acetate
Concen: 0.404 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:	43	Resp:	95963
Ion	Ratio	Lower	Upper
43	100		
45	10.5	7.8	11.8
61	8.6	7.4	11.0
70	7.0	5.4	8.2



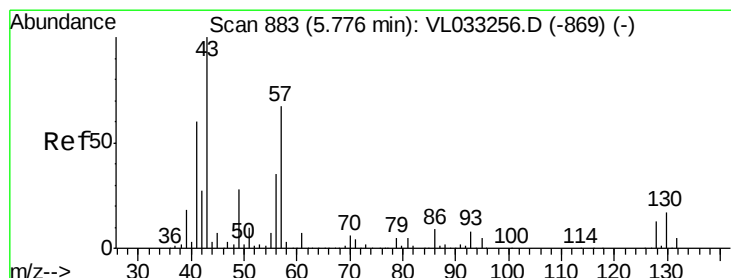
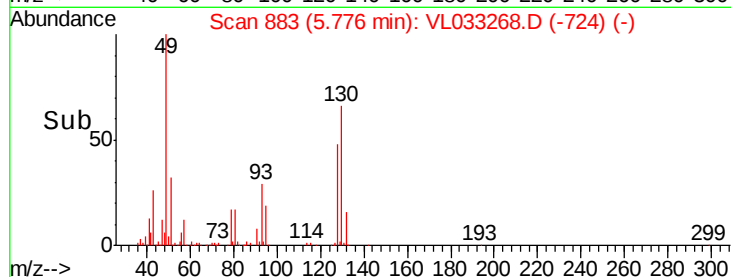
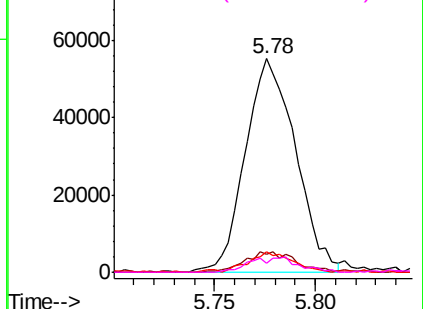
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

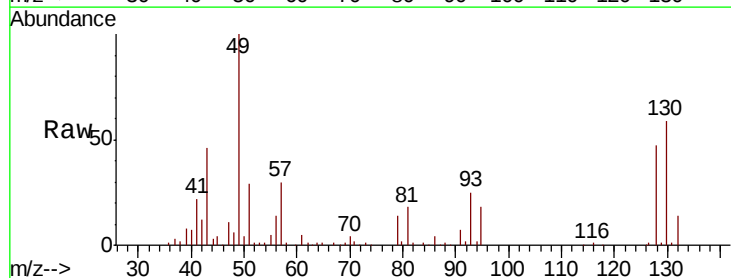
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.402 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.01 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion:	57	Resp:	44979
Ion	Ratio	Lower	Upper
57	100		
41	100.9	72.2	108.4
43	218.2	179.0	268.4
56	56.7	41.8	62.8



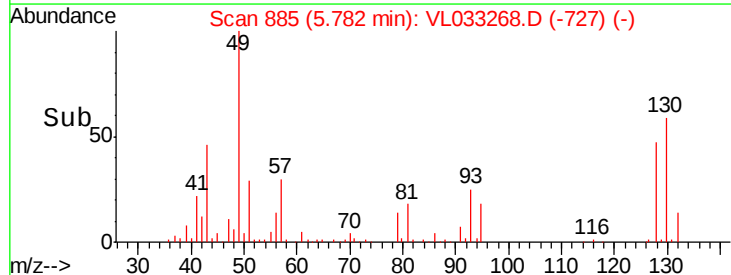
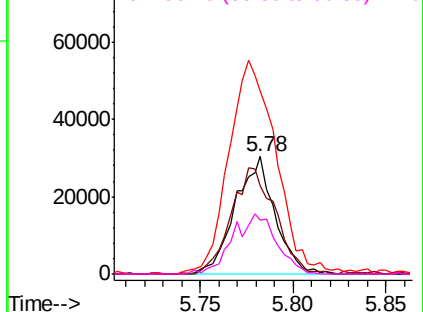
Abundance

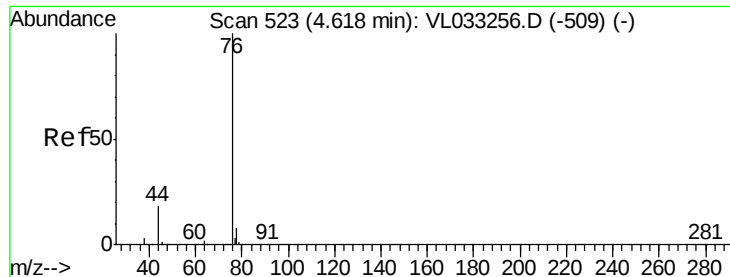
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.370 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

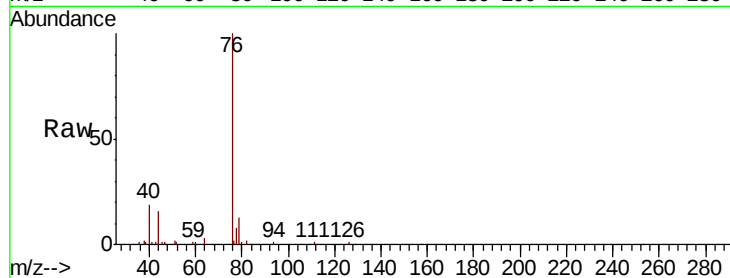
Tgt Ion: 76 Resp: 41909

Ion Ratio Lower Upper

76 100

44 29.1 14.8 22.2#

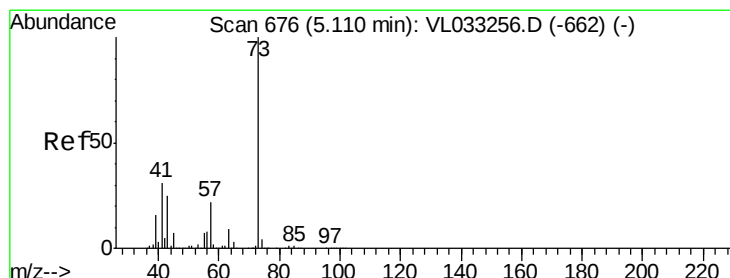
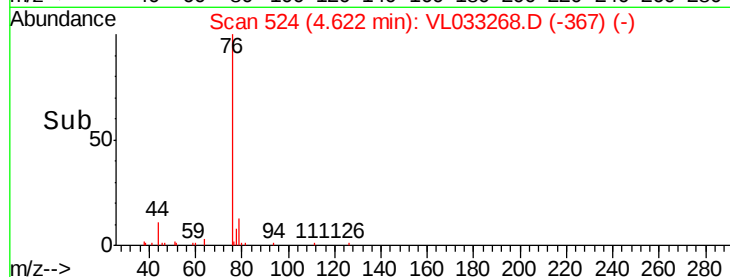
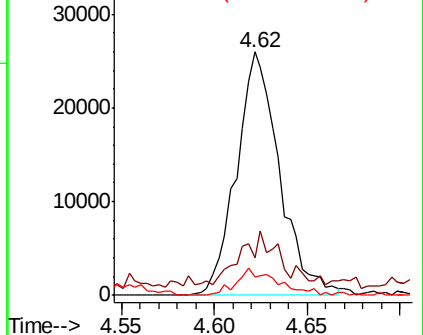
78 10.8 7.2 10.8#



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: 0.368 ppbv

RT: 5.13 min Scan# 681

Delta R.T. 0.02 min

Lab File: VL033268.D

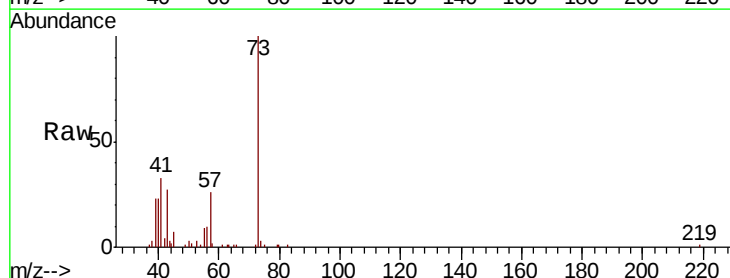
Acq: 8 Mar 2019 22:08

Tgt Ion: 73 Resp: 52820

Ion Ratio Lower Upper

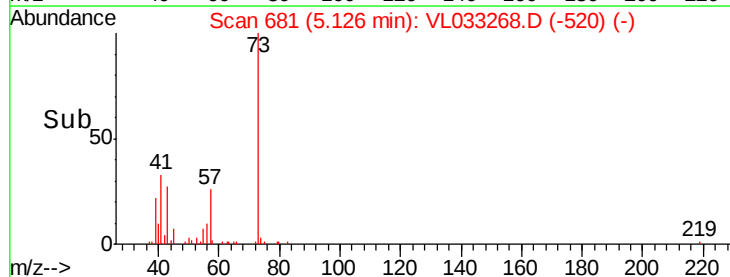
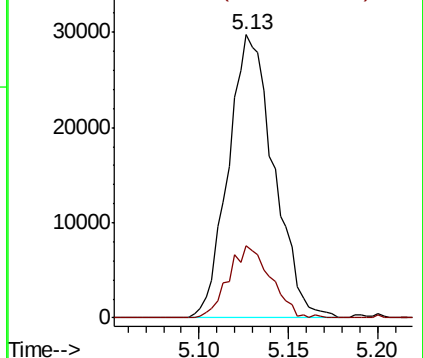
73 100

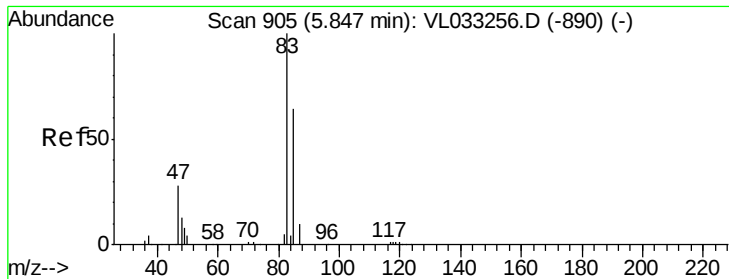
57 23.7 17.7 26.5



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

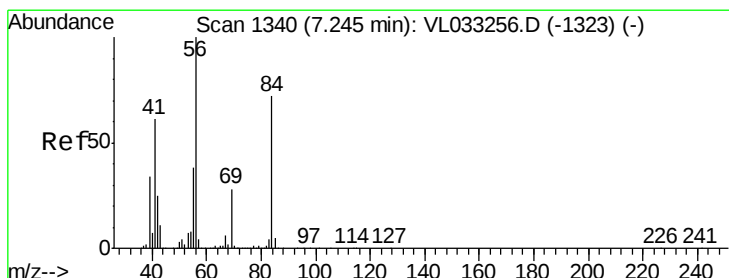
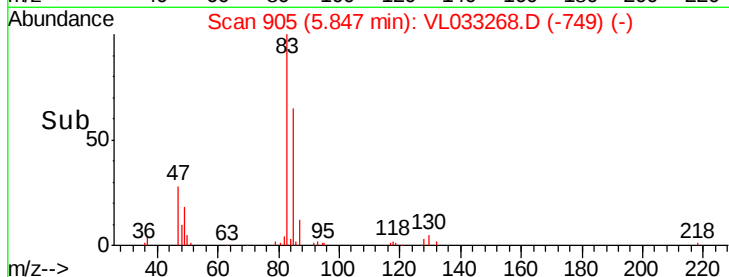
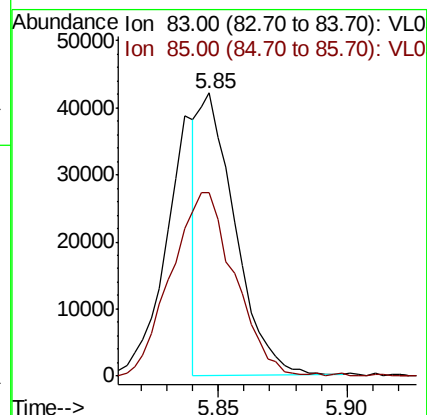
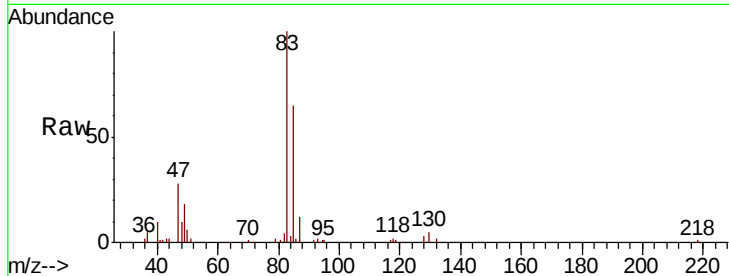




#29
Chloroform
Concen: 0.242 ppbv
RT: 5.85 min Scan# 905
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

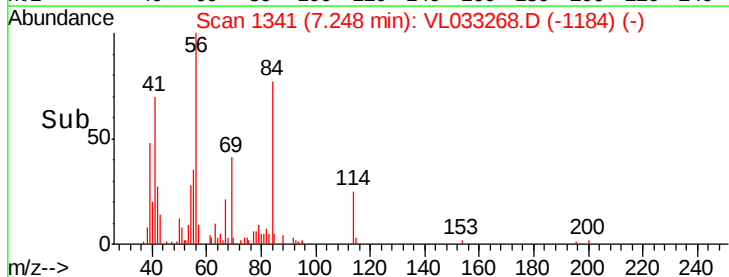
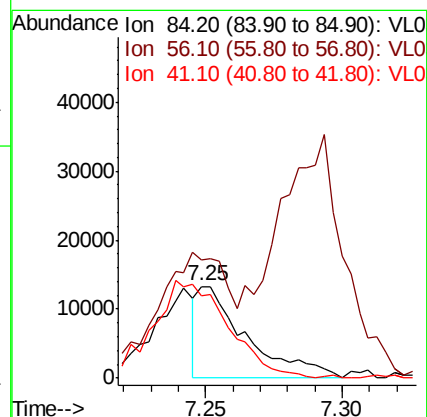
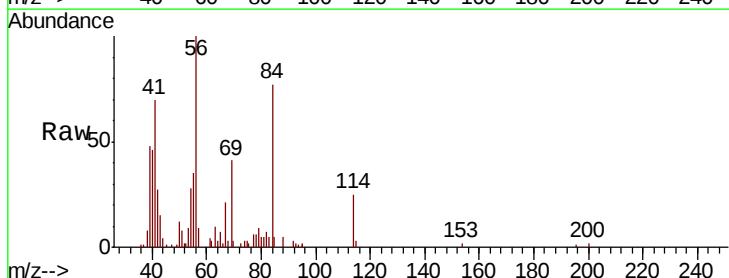
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

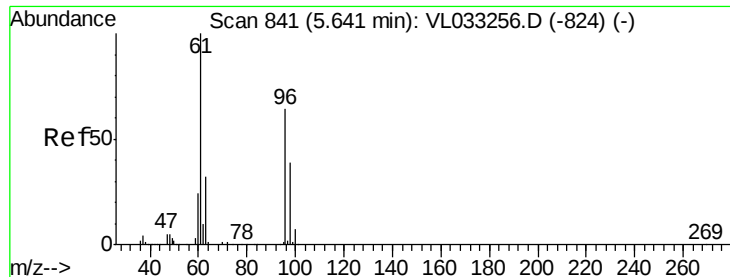
Tgt Ion: 83 Resp: 41264
Ion Ratio Lower Upper
83 100
85 64.3 51.0 76.6



#30
Cyclohexane
Concen: 0.188 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion: 84 Resp: 16267
Ion Ratio Lower Upper
84 100
56 0.0 113.4 170.2#
41 0.0 70.2 105.4#





#31

cis-1,2-Dichloroethene

Concen: 0.361 ppbv

RT: 5.64 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

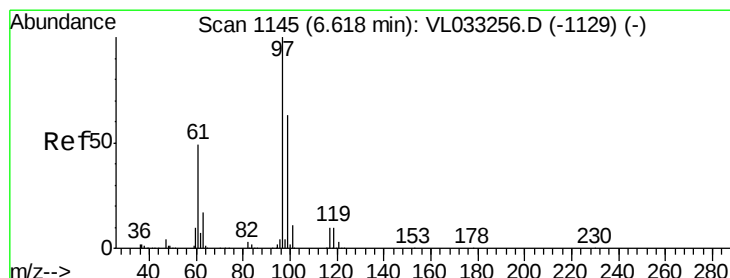
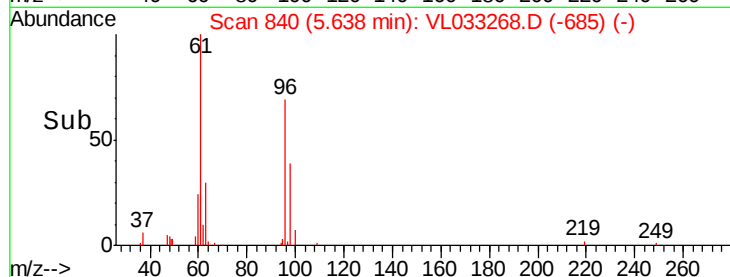
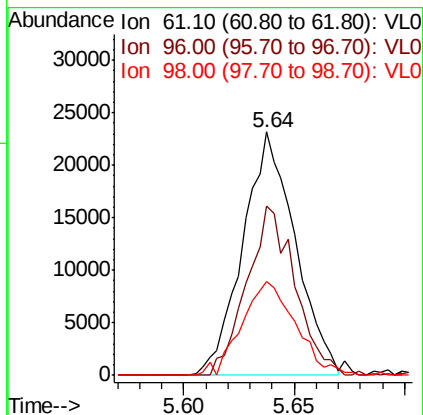
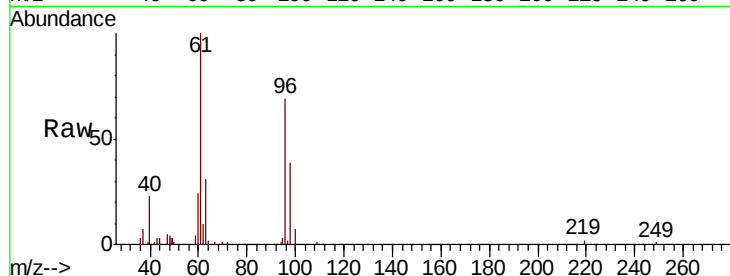
Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

Tgt Ion:	61	Resp:	38191
Ion	Ratio	Lower	Upper
61	100		
96	63.3	51.2	76.8
98	35.3	30.8	46.2



#32

1,1,1-Trichloroethane

Concen: 0.390 ppbv

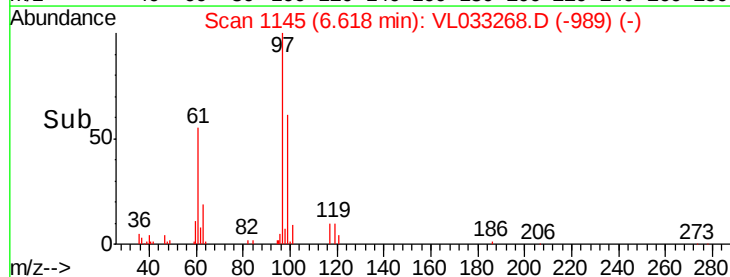
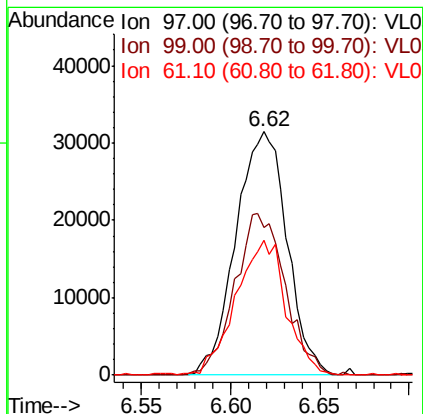
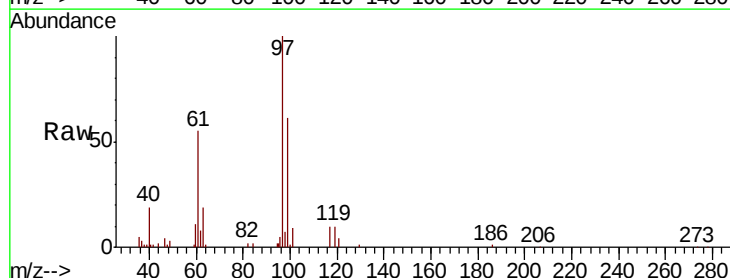
RT: 6.62 min Scan# 1145

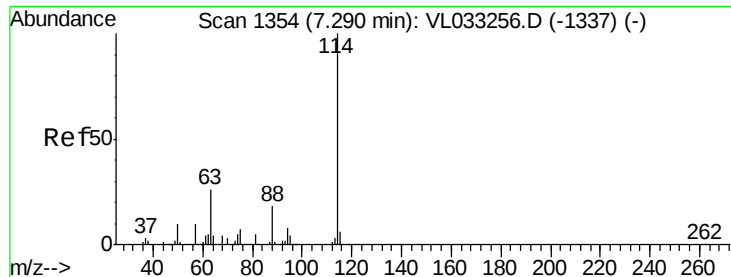
Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Tgt Ion:	97	Resp:	62864
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.6	77.4
61	54.6	40.8	61.2

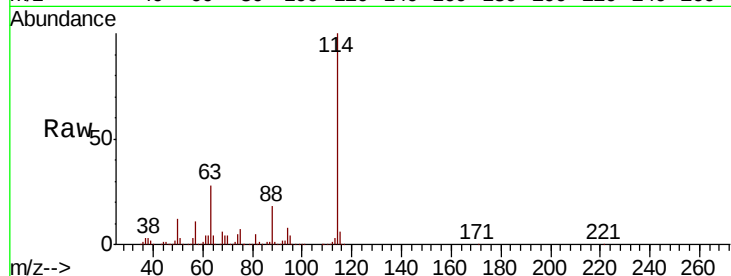




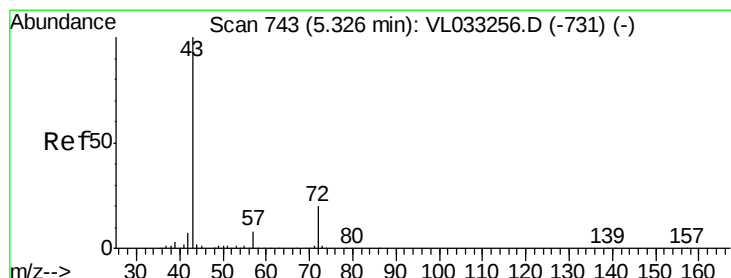
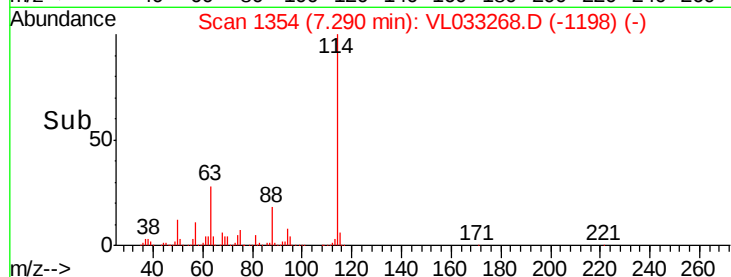
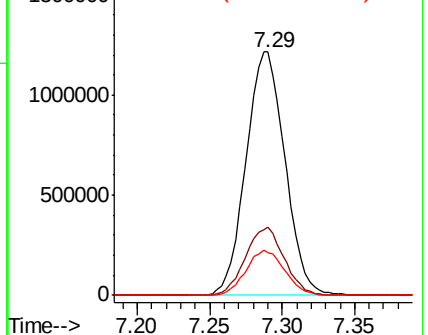
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1354
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion:114 Resp: 2273790
Ion Ratio Lower Upper
114 100
63 28.0 22.2 33.2
88 18.6 14.6 22.0

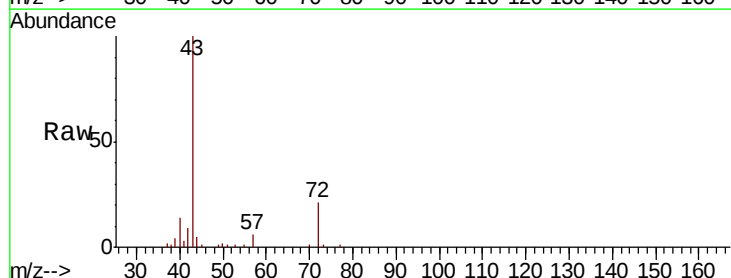


Abundance Ion 114.10 (113.80 to 114.80): VL0
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0

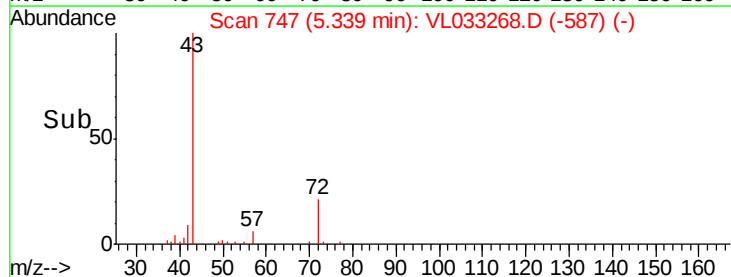
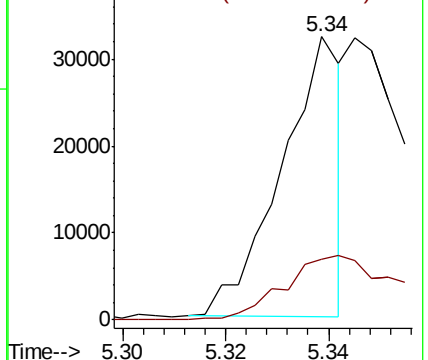


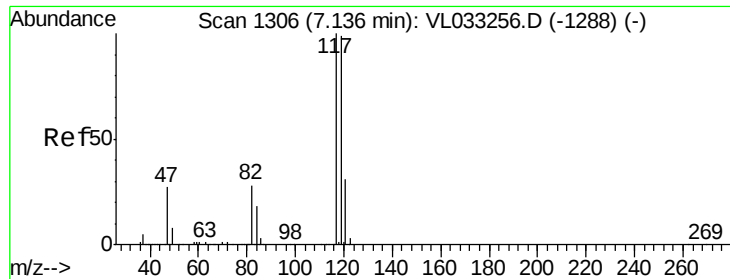
#34
2-Butanone
Concen: 0.189 ppbv
RT: 5.34 min Scan# 747
Delta R.T. 0.01 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion: 43 Resp: 25983
Ion Ratio Lower Upper
43 100
72 0.0 16.9 25.3#



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

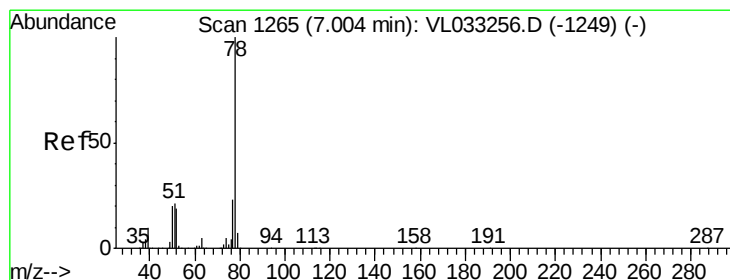
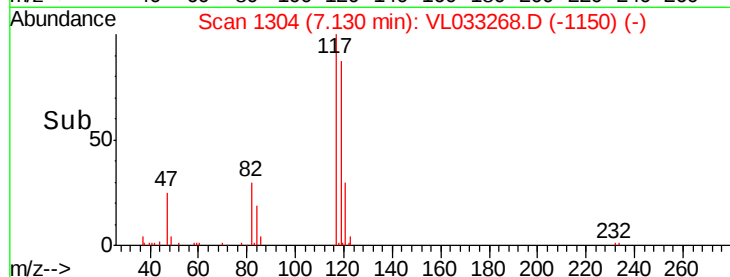
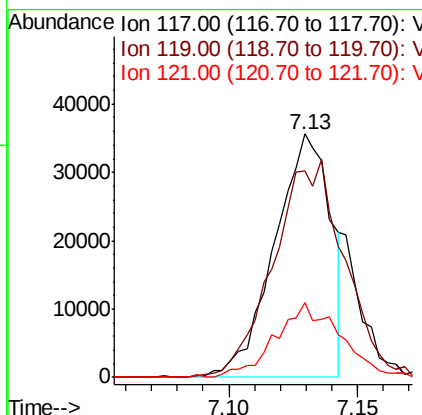
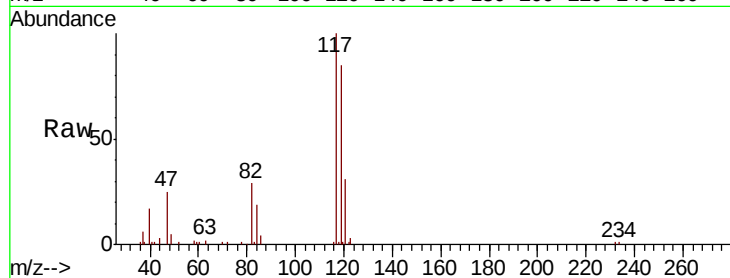




#35
Carbon Tetrachloride
Concen: 0.348 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.01 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

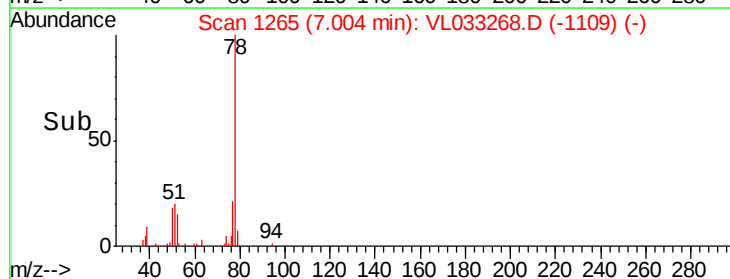
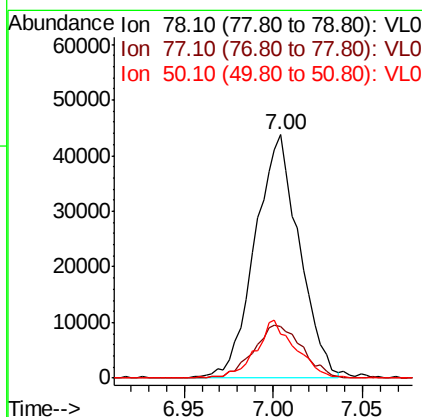
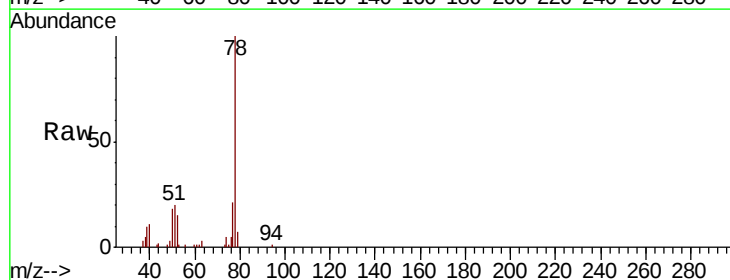
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

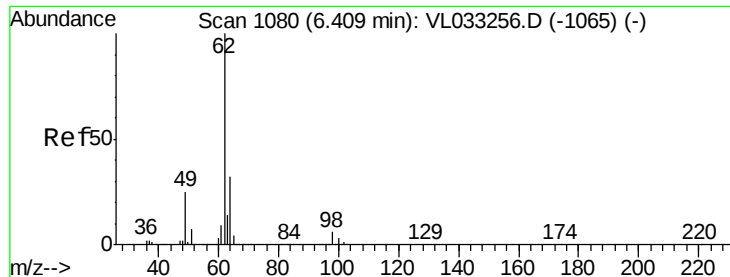
Tgt Ion:117 Resp: 53779
Ion Ratio Lower Upper
117 100
119 85.3 79.0 118.6
121 30.2 24.7 37.1



#36
Benzene
Concen: 0.387 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion: 78 Resp: 75846
Ion Ratio Lower Upper
78 100
77 21.1 18.2 27.2
50 18.3 16.2 24.2

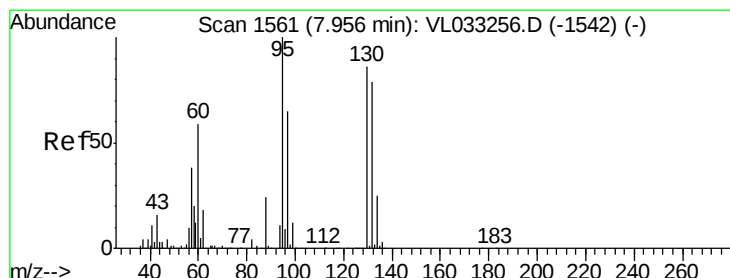
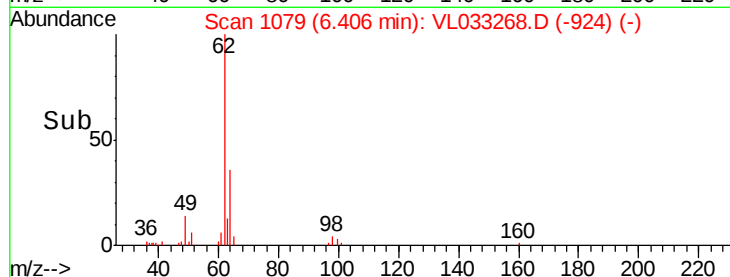
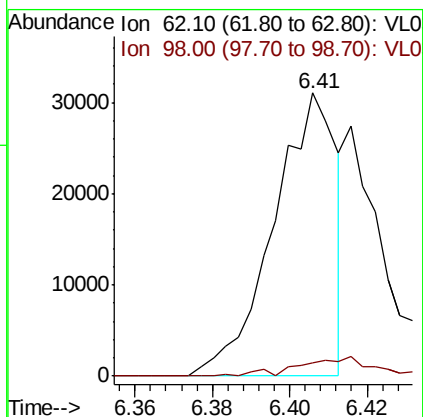
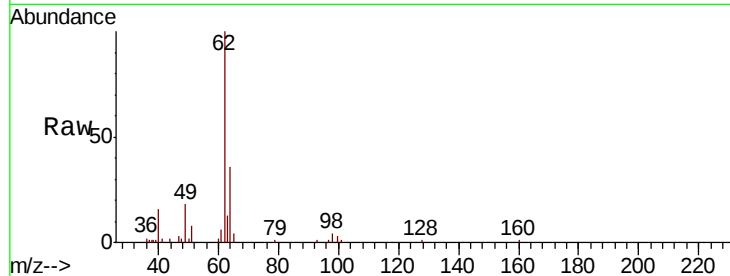




#37
 1,2-Dichloroethane
 Concen: 0.279 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

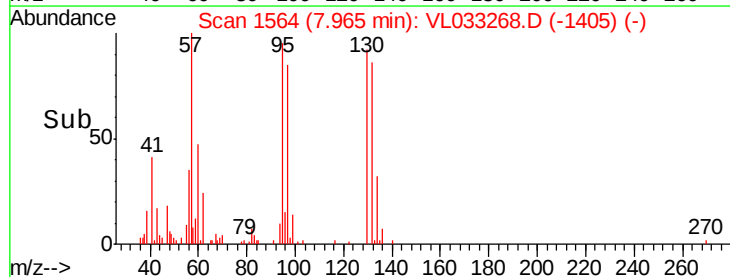
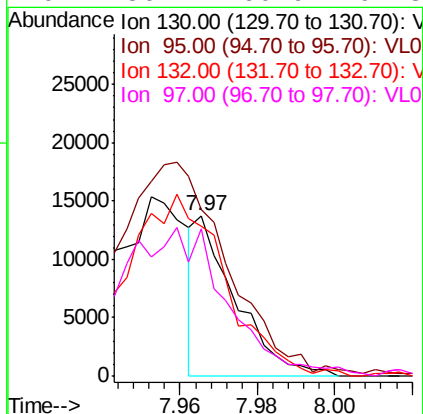
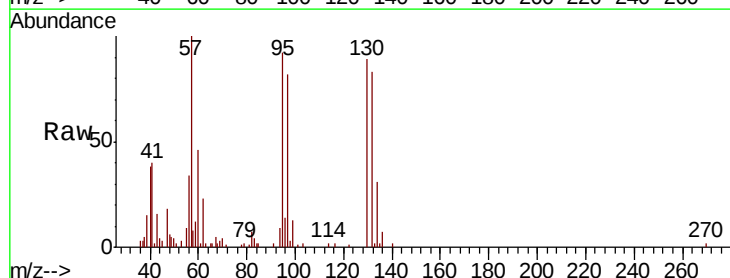
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

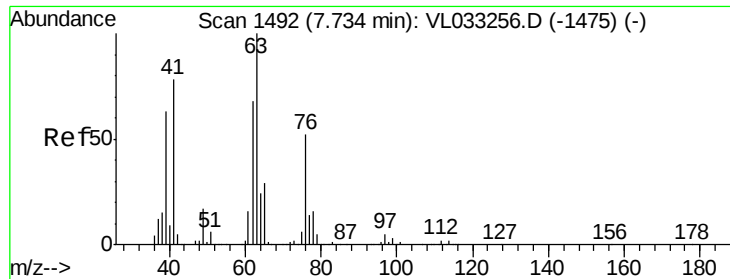
Tgt Ion: 62 Resp: 35146
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.5 6.7#



#38
 Trichloroethene
 Concen: 0.129 ppbv
 RT: 7.97 min Scan# 1564
 Delta R.T. 0.01 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion: 130 Resp: 9791
 Ion Ratio Lower Upper
 130 100
 95 100.0 93.4 140.0
 132 90.0 74.0 111.0
 97 86.2 60.9 91.3

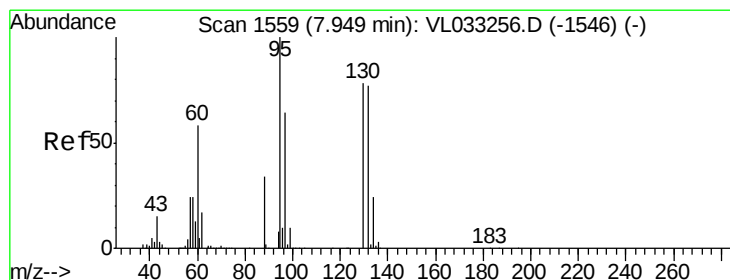
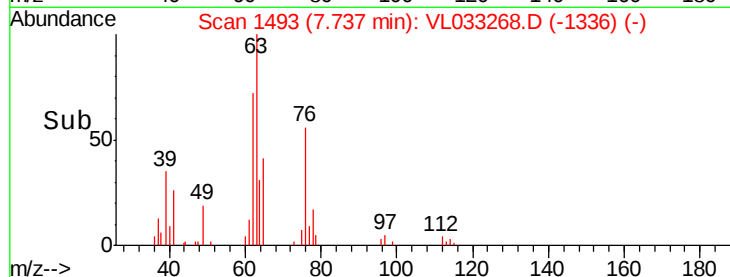
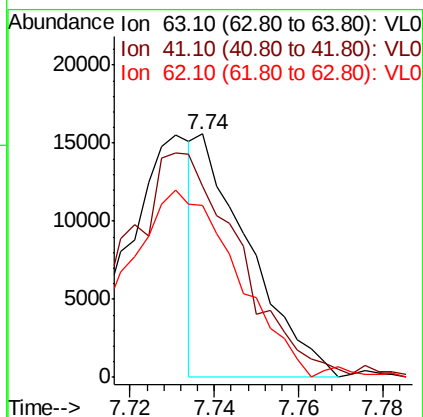
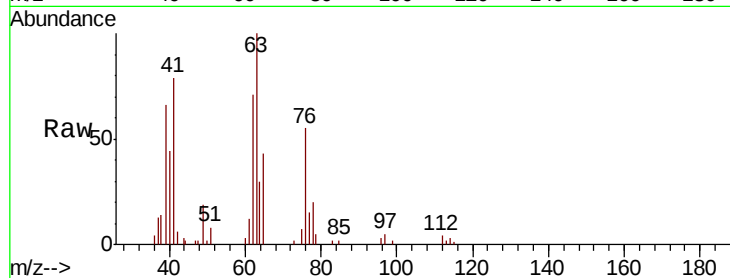




#39
 1,2-Dichloropropane
 Concen: 0.174 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

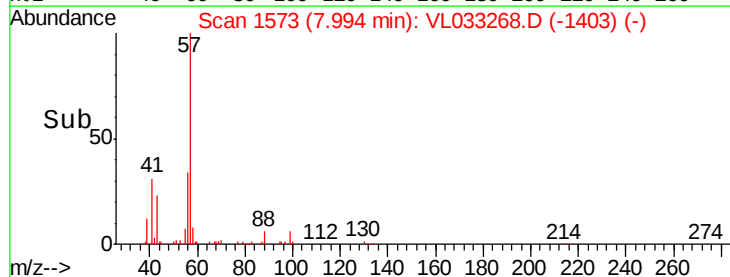
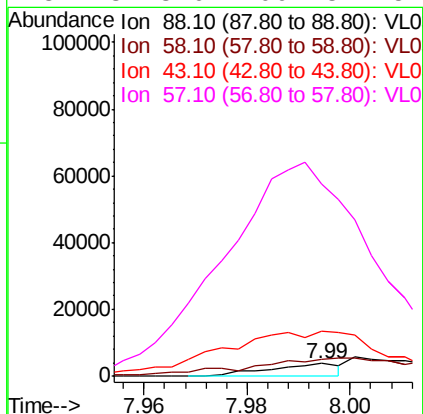
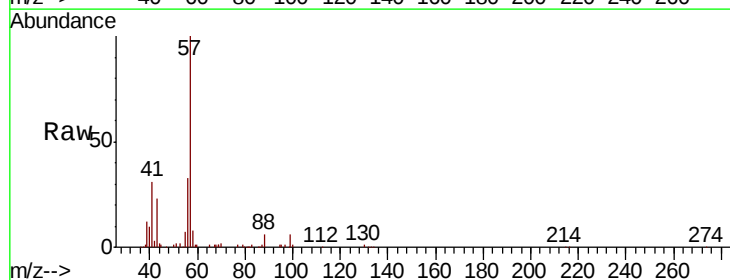
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

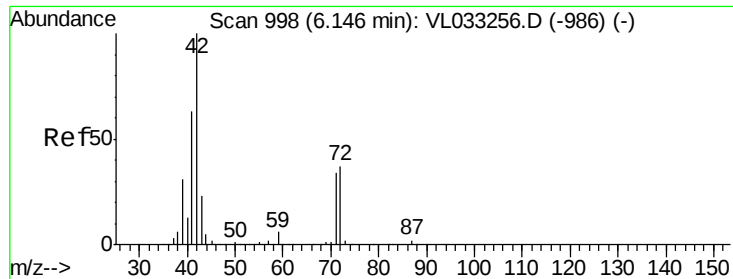
Tgt Ion: 63 Resp: 13410
 Ion Ratio Lower Upper
 63 100
 41 75.6 62.6 94.0
 62 66.4 54.6 81.8



#40
 1,4-Dioxane
 Concen: 0.127 ppbv
 RT: 7.99 min Scan# 1573
 Delta R.T. 0.05 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion: 88 Resp: 3591
 Ion Ratio Lower Upper
 88 100
 58 0.0 108.4 162.6#
 43 920.8 232.3 348.5#
 57 3773.0 1007.8 1511.8#





#41

Tetrahydrofuran

Concen: 0.195 ppbv

RT: 6.17 min Scan# 1007

Delta R.T. 0.03 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

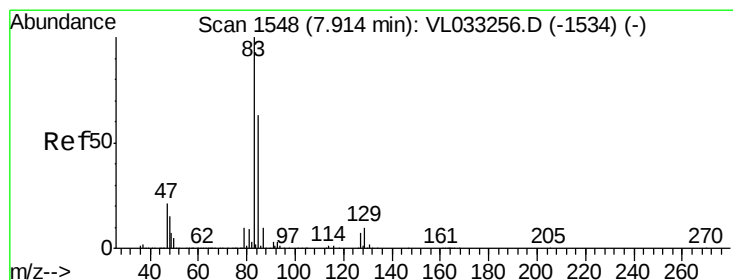
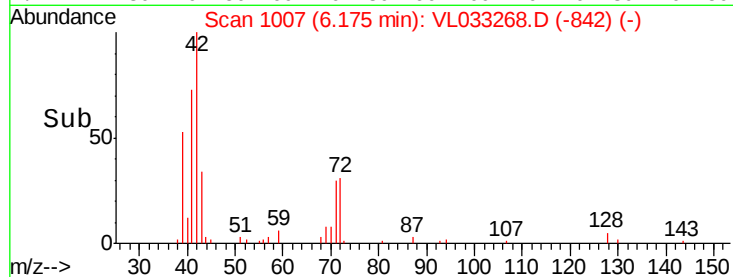
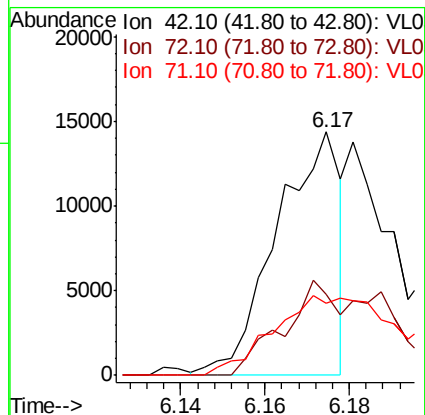
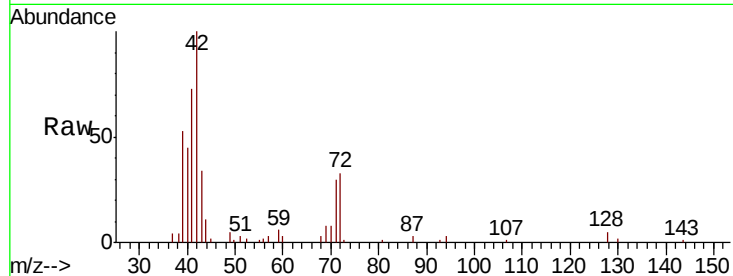
Tgt Ion: 42 Resp: 15165

Ion Ratio Lower Upper

42 100

72 67.1 30.2 45.2#

71 68.7 29.0 43.6#



#42

Bromodichloromethane

Concen: 0.393 ppbv

RT: 7.91 min Scan# 1547

Delta R.T. -0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

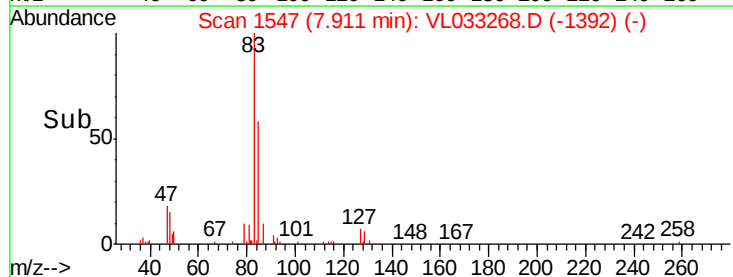
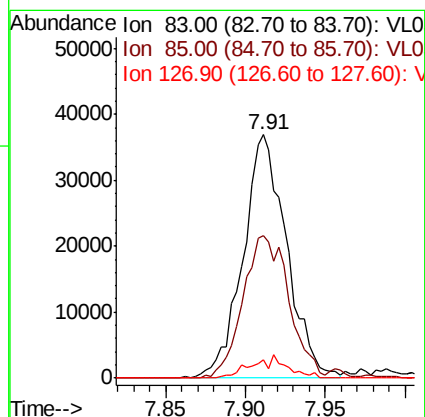
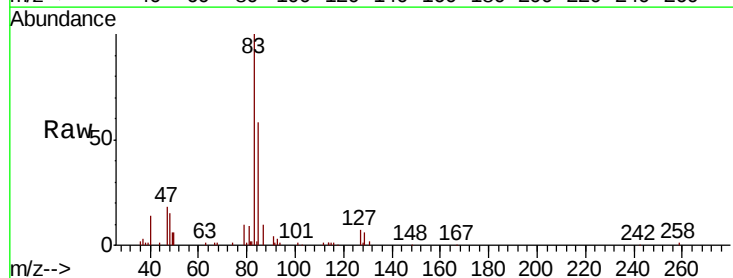
Tgt Ion: 83 Resp: 67515

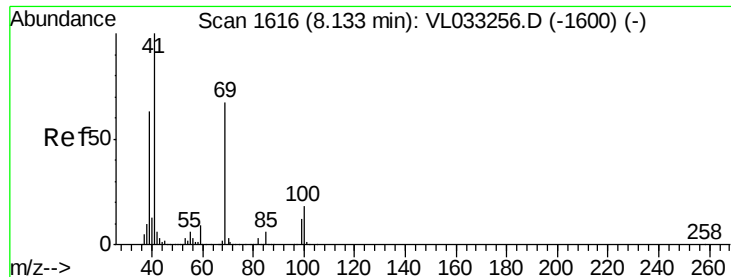
Ion Ratio Lower Upper

83 100

85 58.7 50.1 75.1

127 7.4 5.9 8.9

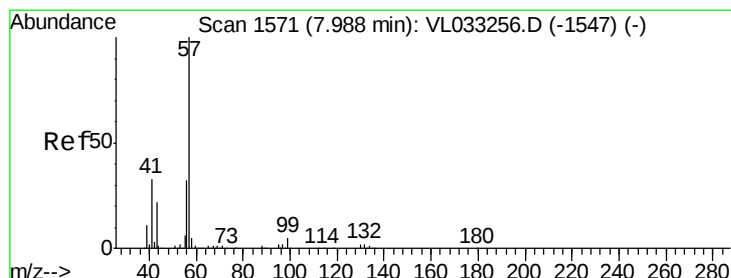
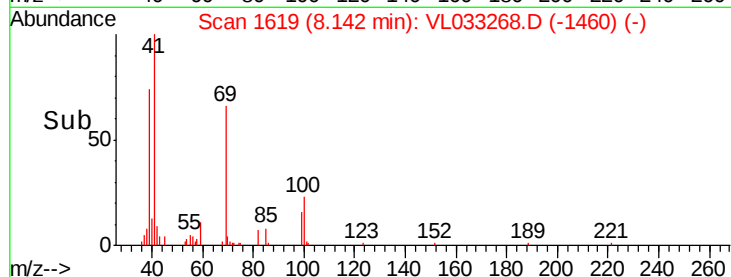
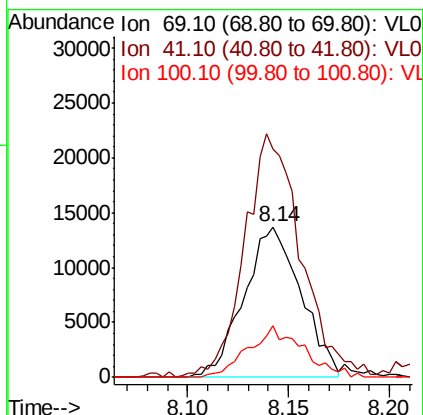
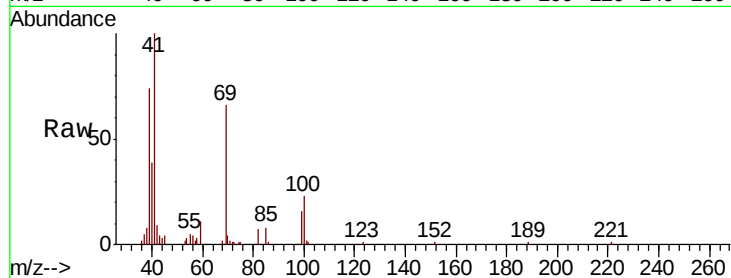




#43
Methyl Methacrylate
Concen: 0.343 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

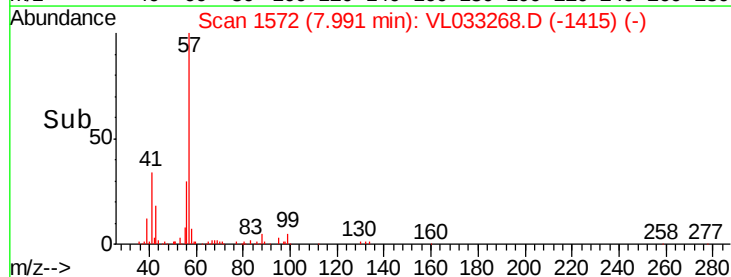
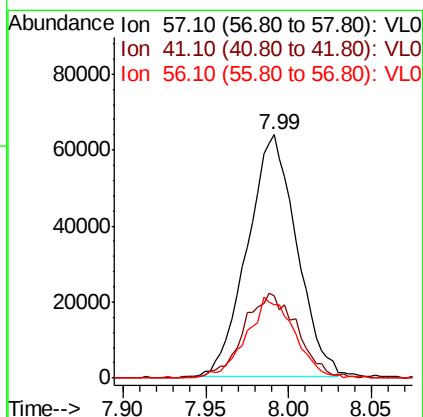
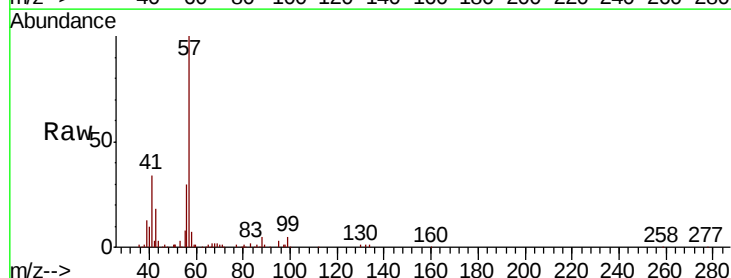
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

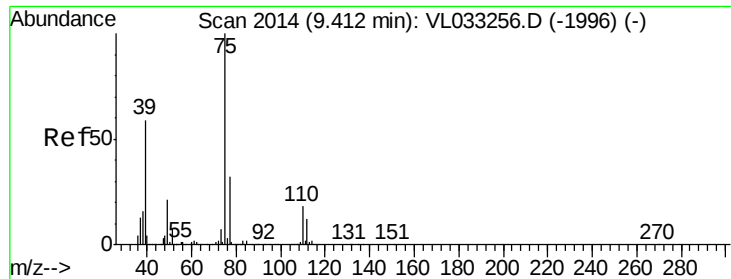
Tgt Ion: 69 Resp: 26999
Ion Ratio Lower Upper
69 100
41 161.2 120.3 180.5
100 32.7 23.5 35.3



#44
2,2,4-Trimethylpentane
Concen: 0.378 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion: 57 Resp: 131492
Ion Ratio Lower Upper
57 100
41 38.3 26.4 39.6
56 32.9 25.1 37.7





#45

t-1,3-Dichloropropene

Concen: 0.184 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.01 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

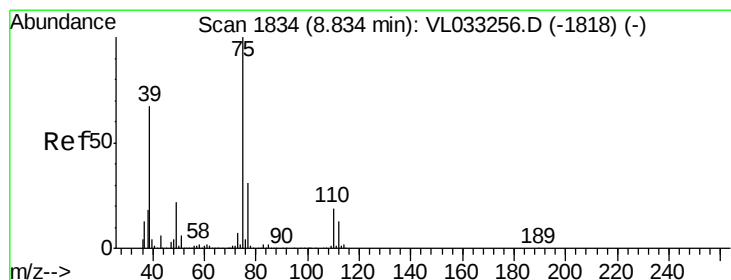
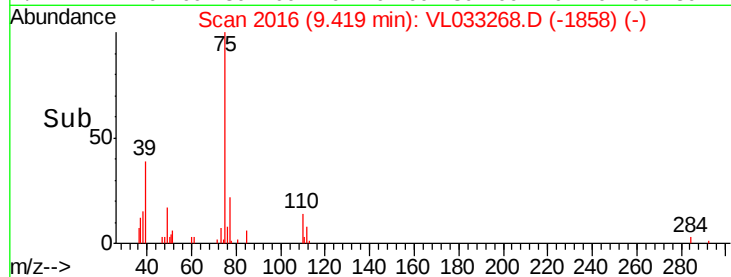
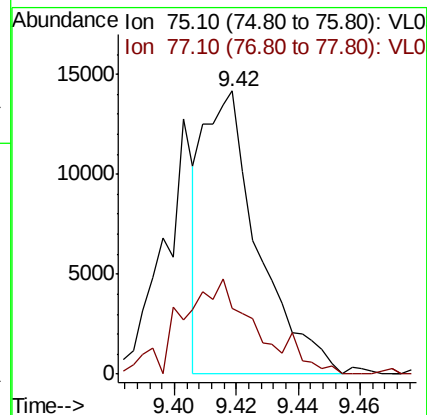
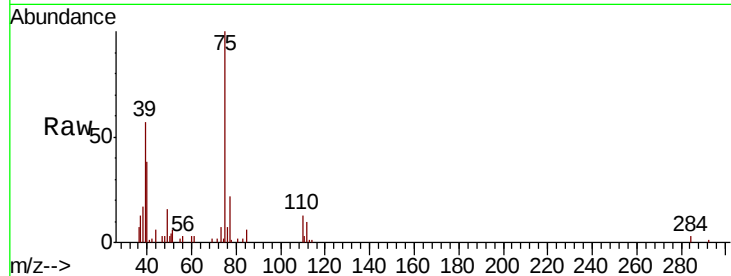
0.4 PPB MDL

Tgt Ion: 75 Resp: 17540

Ion Ratio Lower Upper

75 100

77 23.3 25.4 38.0#



#46

cis-1,3-Dichloropropene

Concen: 0.332 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

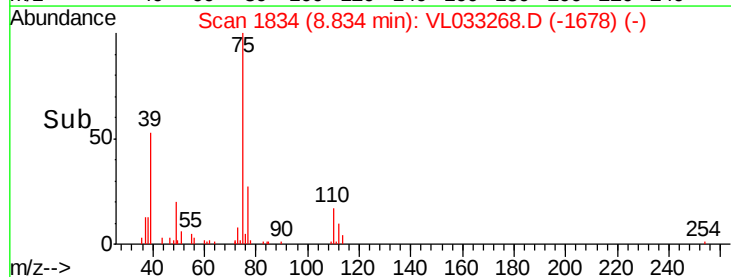
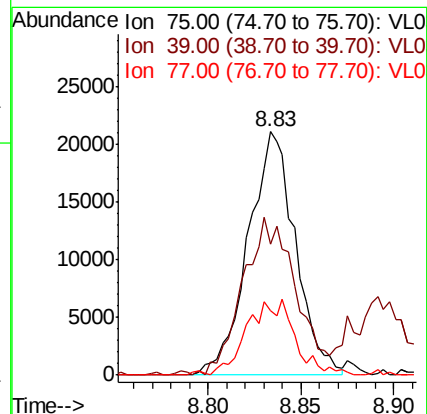
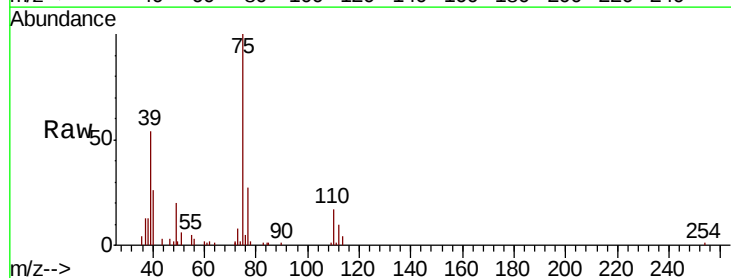
Tgt Ion: 75 Resp: 37254

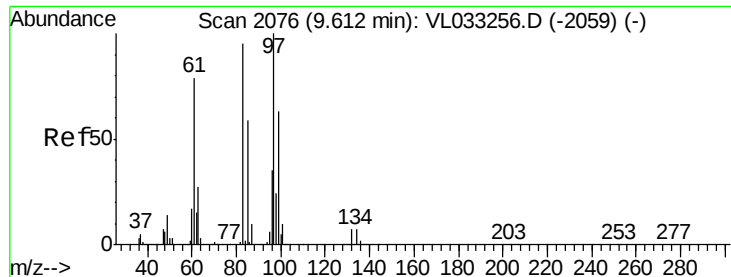
Ion Ratio Lower Upper

75 100

39 53.8 53.8 80.6

77 25.3 25.0 37.6

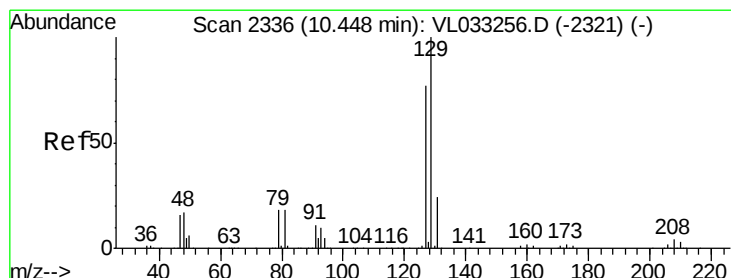
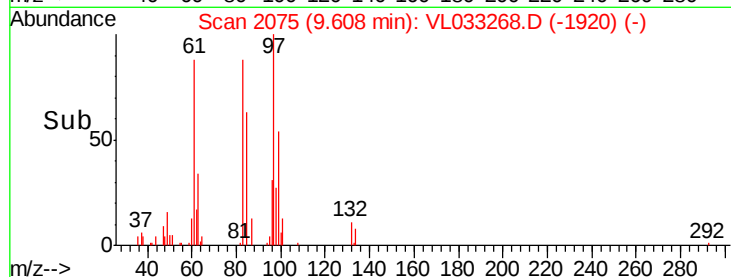
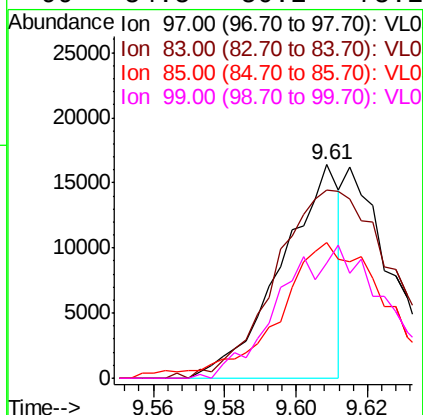
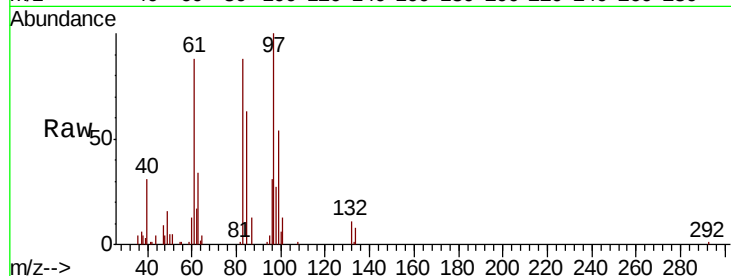




#47
 1,1,2-Trichloroethane
 Concen: 0.225 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

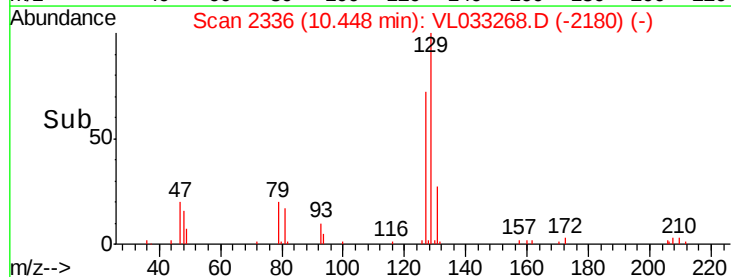
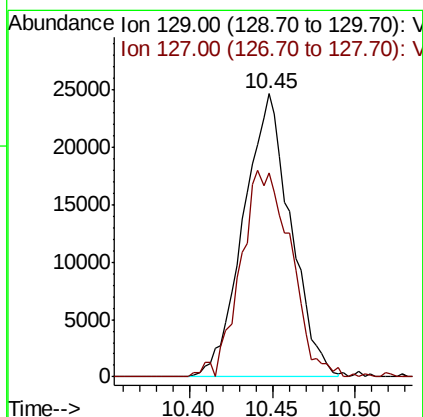
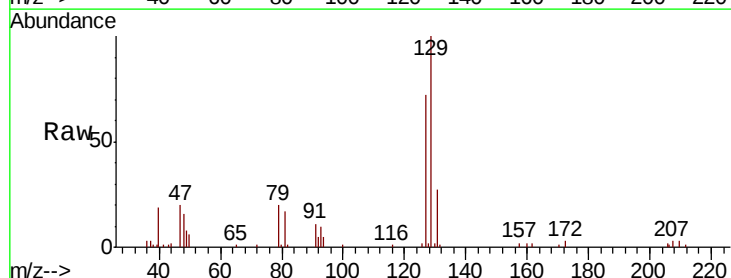
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

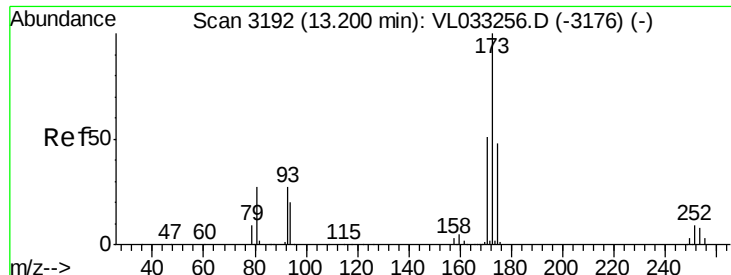
Tgt Ion: 97 Resp: 18548
 Ion Ratio Lower Upper
 97 100
 83 88.8 75.8 113.8
 85 60.5 47.5 71.3
 99 54.5 50.2 75.2



#48
 Dibromochloromethane
 Concen: 0.361 ppbv
 RT: 10.45 min Scan# 2336
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion: 129 Resp: 48838
 Ion Ratio Lower Upper
 129 100
 127 78.1 39.4 118.2

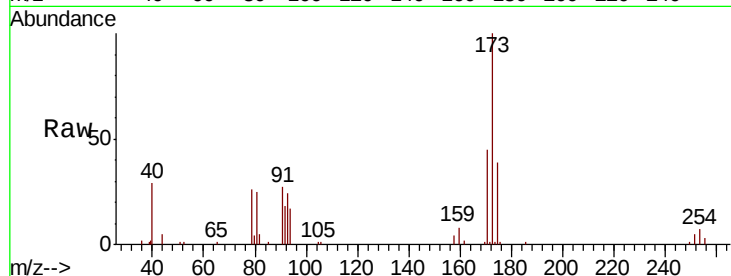




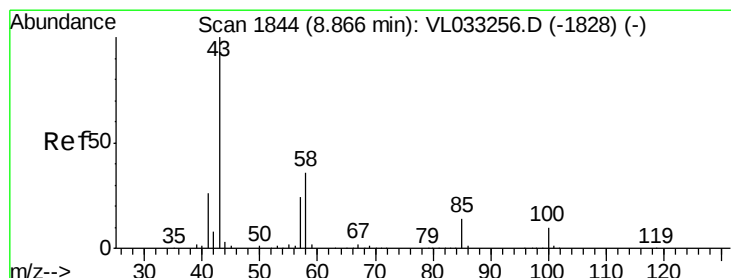
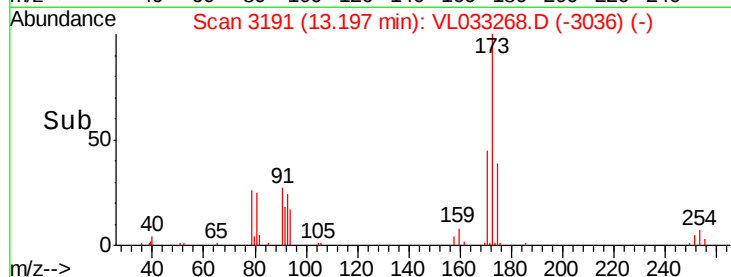
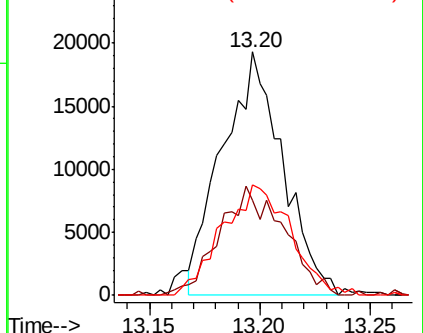
#49
Bromoform
Concen: 0.306 ppbv
RT: 13.20 min Scan# 3191
Delta R.T. -0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

Tgt Ion: 173 Resp: 36788
Ion Ratio Lower Upper
173 100
175 48.1 38.8 58.2
171 51.2 41.5 62.3

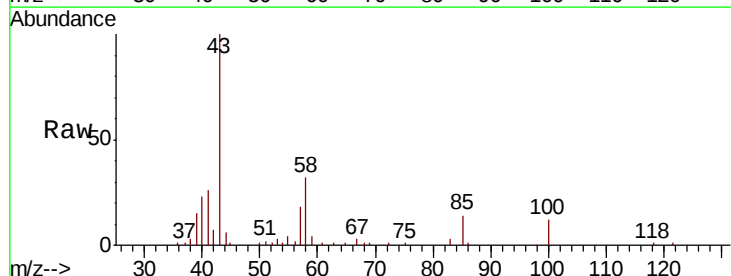


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

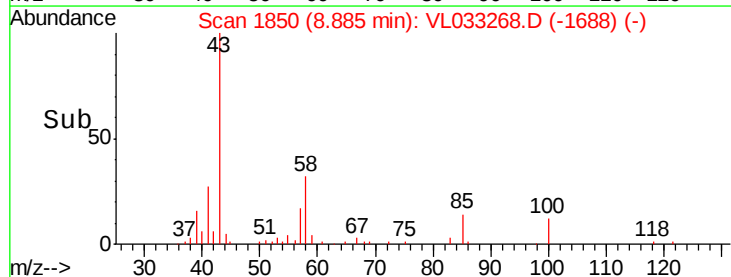
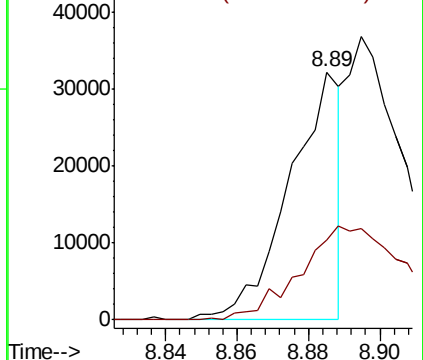


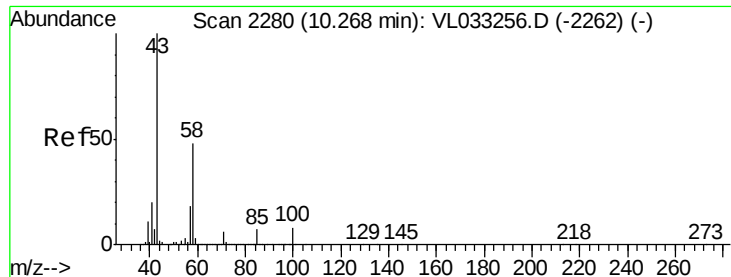
#50
4-Methyl-2-Pentanone
Concen: 0.155 ppbv
RT: 8.89 min Scan# 1850
Delta R.T. 0.02 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion: 43 Resp: 32187
Ion Ratio Lower Upper
43 100
58 81.1 28.1 42.1#



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

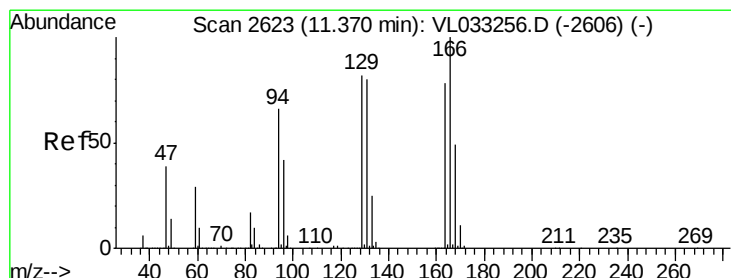
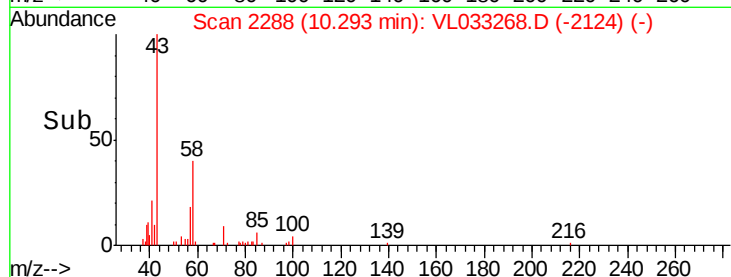
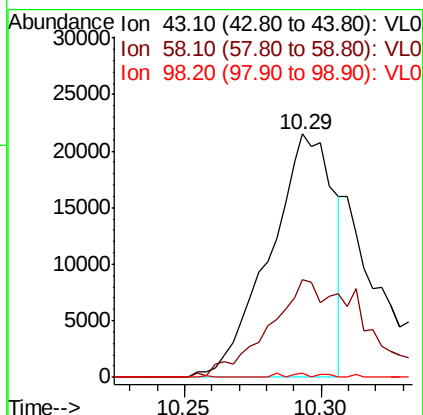
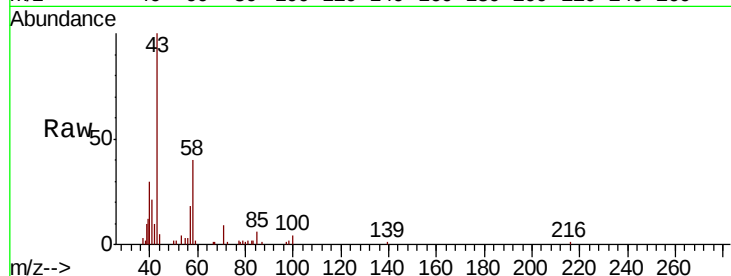




#51
2-Hexanone
Concen: 0.225 ppbv
RT: 10.29 min Scan# 2288
Delta R.T. 0.03 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

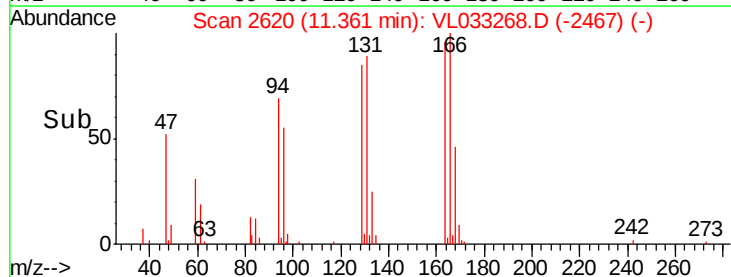
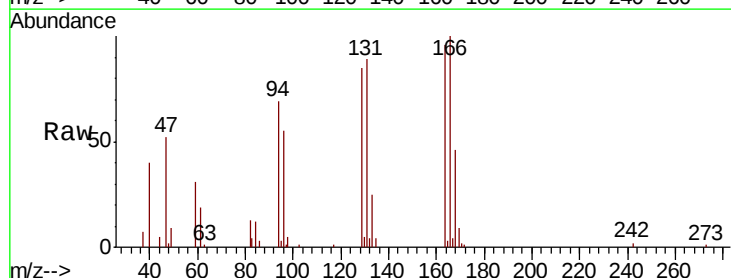
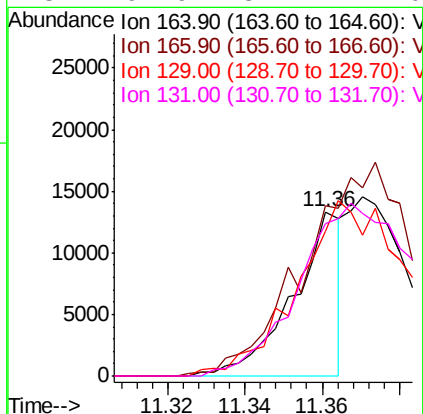
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

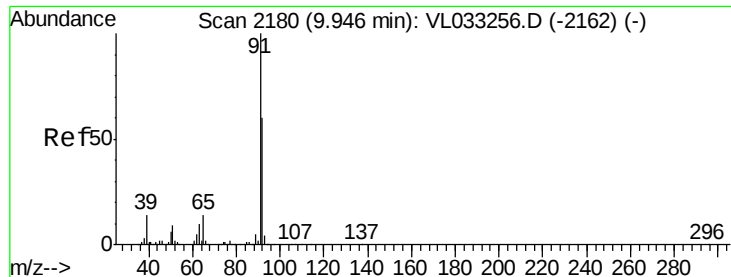
Tgt Ion: 43 Resp: 34849
Ion Ratio Lower Upper
43 100
58 65.4 38.1 57.1#
98 0.1 0.2 0.4#



#52
Tetrachloroethene
Concen: 0.158 ppbv
RT: 11.36 min Scan# 2620
Delta R.T. -0.01 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion: 164 Resp: 11491
Ion Ratio Lower Upper
164 100
166 106.7 102.0 153.0
129 88.4 83.2 124.8
131 92.9 81.4 122.0





#53

Toluene

Concen: 0.336 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

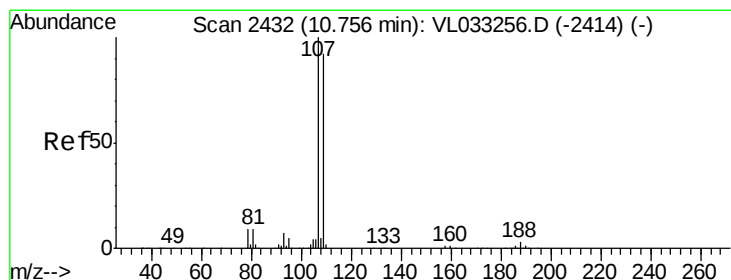
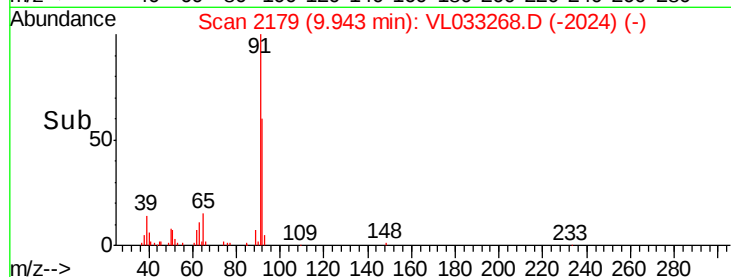
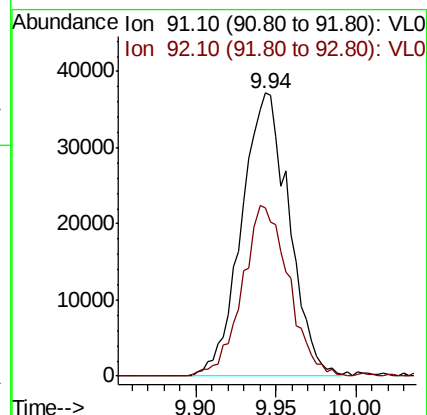
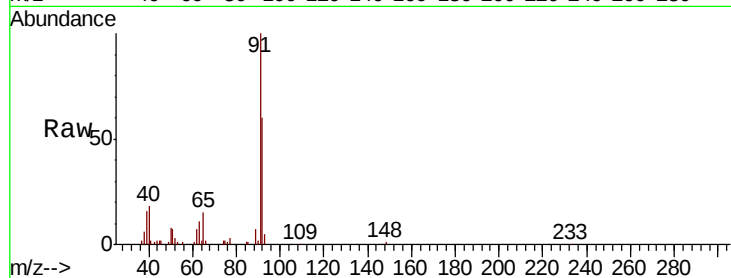
0.4 PPB MDL

Tgt Ion: 91 Resp: 75440

Ion Ratio Lower Upper

91 100

92 59.3 47.7 71.5



#54

1,2-Dibromoethane

Concen: 0.366 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VL033268.D

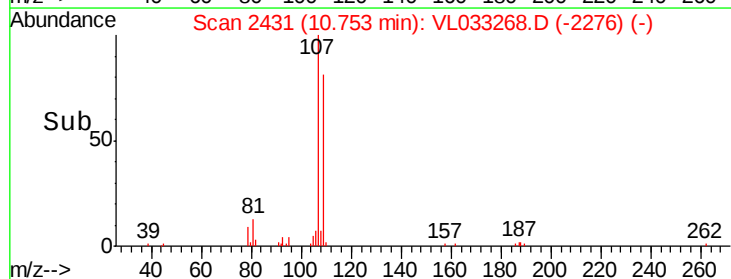
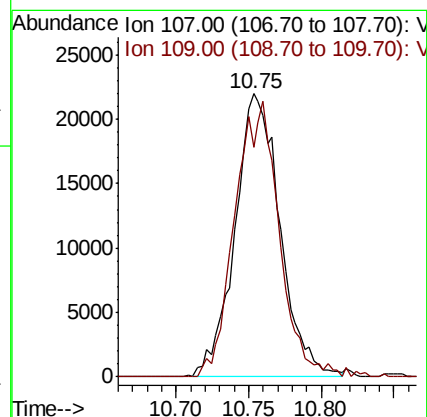
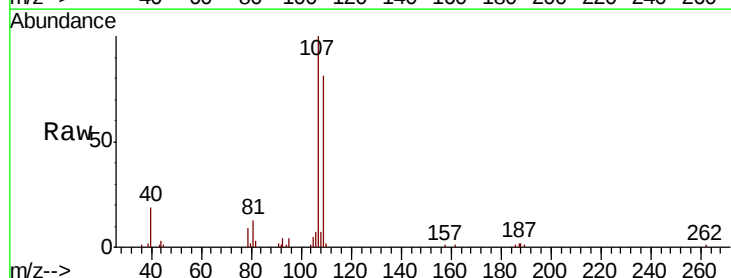
Acq: 8 Mar 2019 22:08

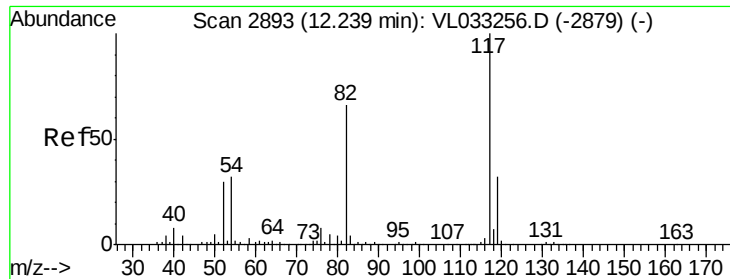
Tgt Ion: 107 Resp: 47338

Ion Ratio Lower Upper

107 100

109 83.4 73.9 110.9

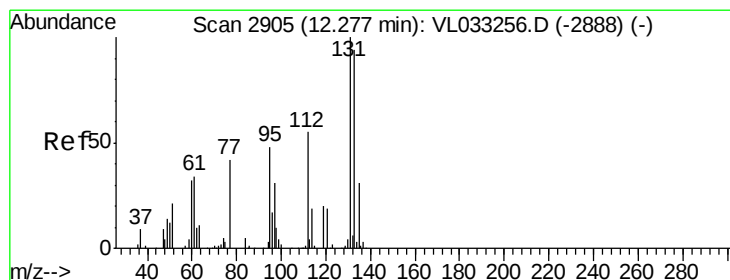
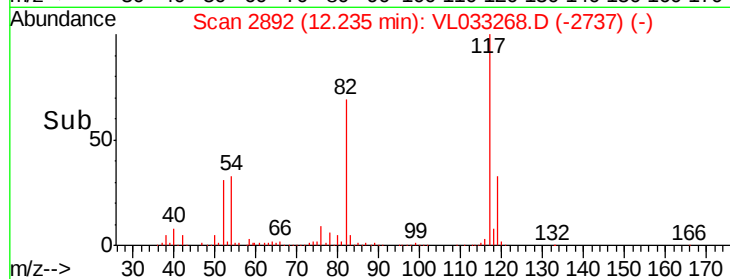
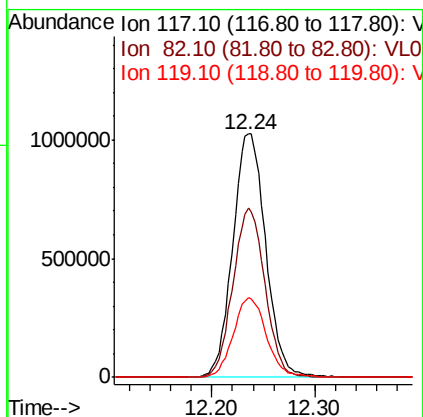
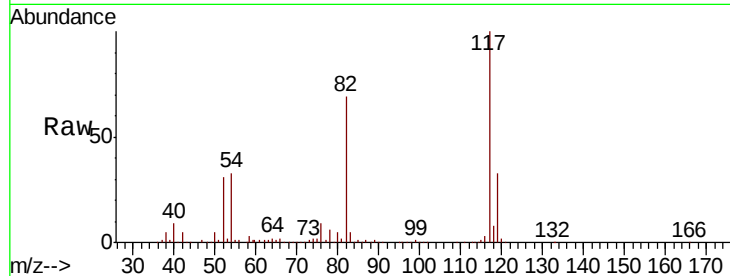




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

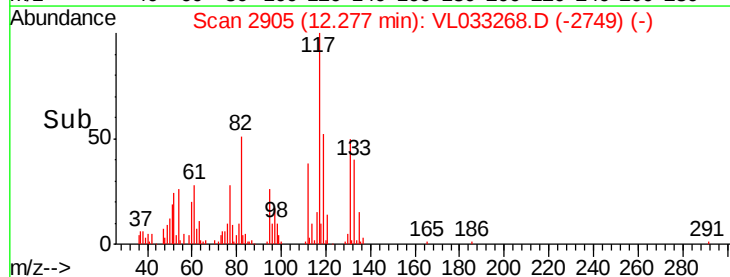
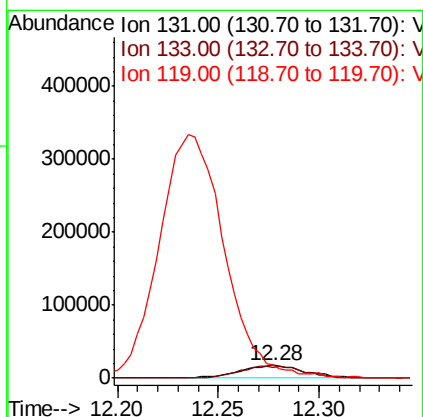
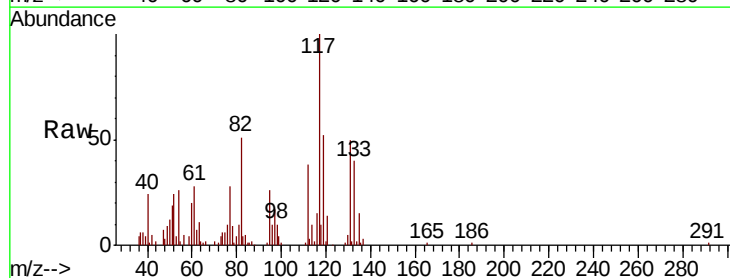
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

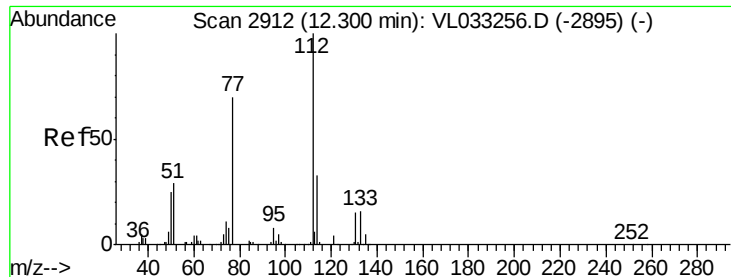
Tgt Ion:117 Resp: 2285403
Ion Ratio Lower Upper
117 100
82 67.7 52.2 78.4
119 33.1 43.4 65.2#



#56
1,1,1,2-Tetrachloroethane
Concen: 0.394 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion:131 Resp: 37702
Ion Ratio Lower Upper
131 100
133 98.2 76.3 114.5
119 2004.0 109.2 163.8#





#57

Chlorobenzene

Concen: 0.445 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

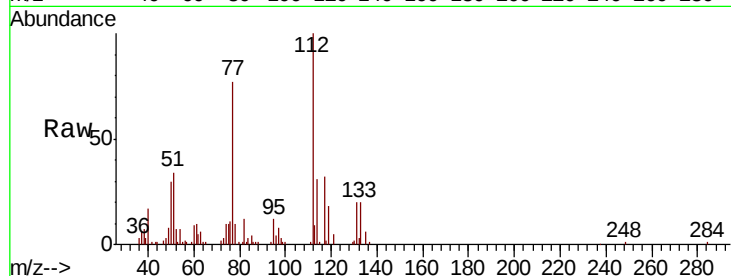
Tgt Ion: 112 Resp: 74581

Ion Ratio Lower Upper

112 100

77 73.9 56.8 85.2

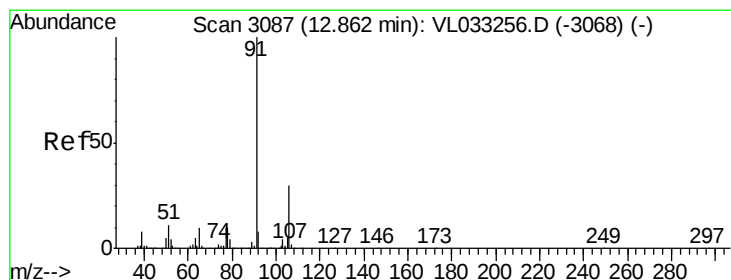
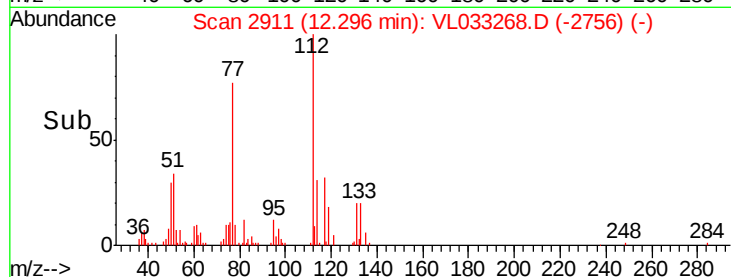
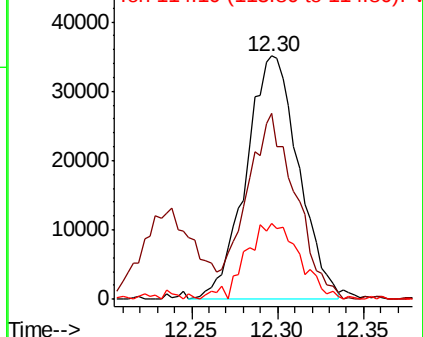
114 30.0 29.5 36.1



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: 0.199 ppbv

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033268.D

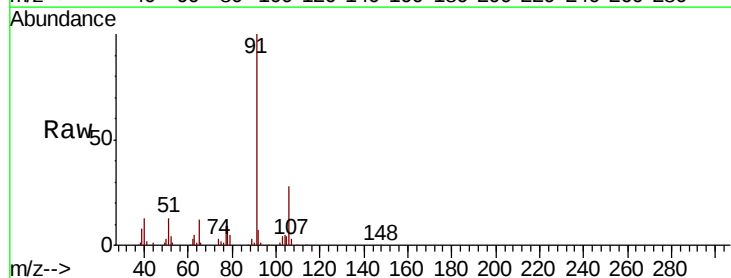
Acq: 8 Mar 2019 22:08

Tgt Ion: 91 Resp: 61399

Ion Ratio Lower Upper

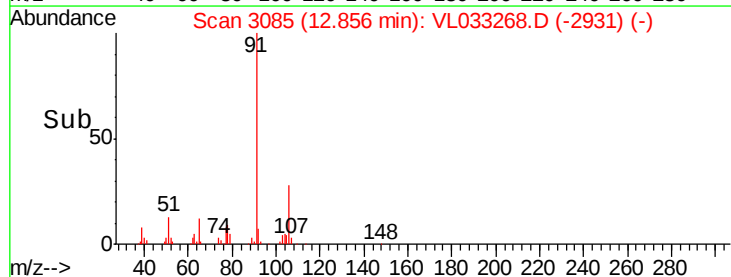
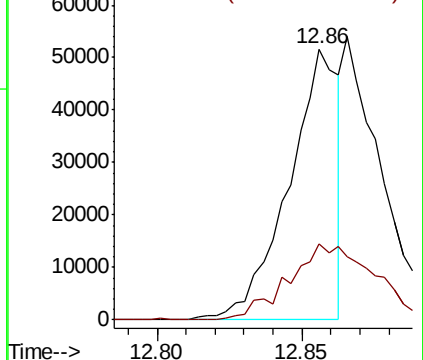
91 100

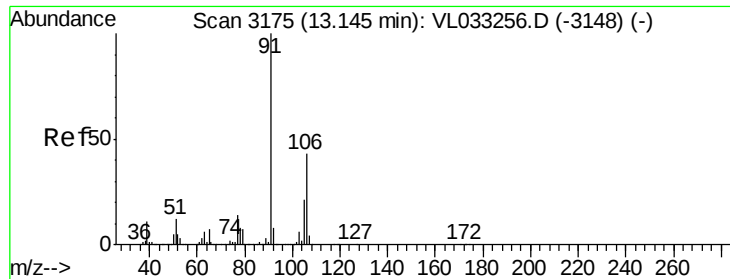
106 28.2 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

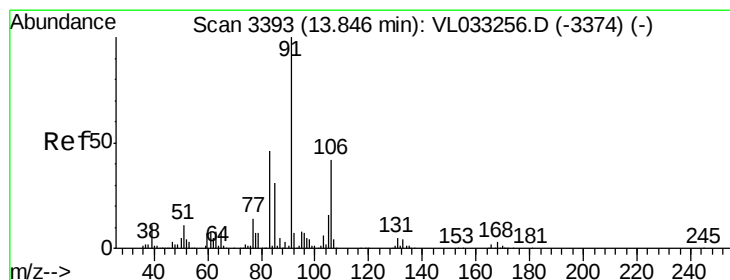
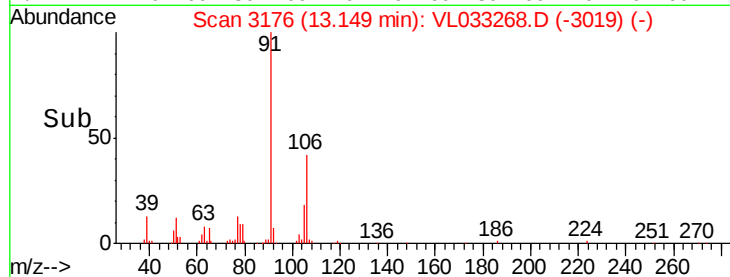
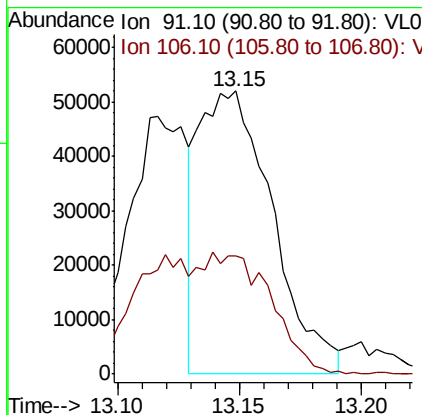
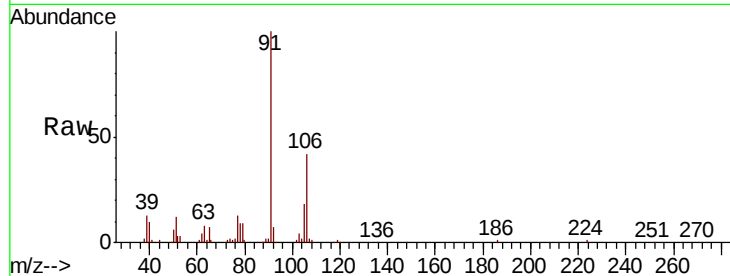




#59
m/p-Xylene
Concen: 0.388 ppbv
RT: 13.15 min Scan# 3176
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

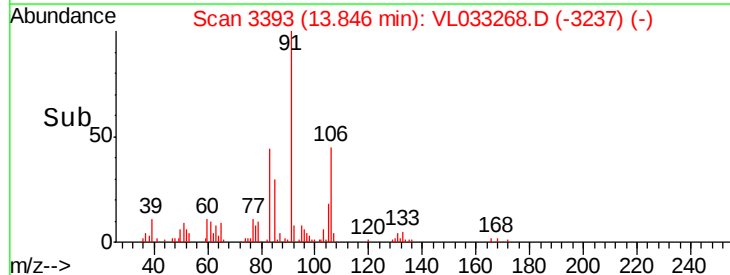
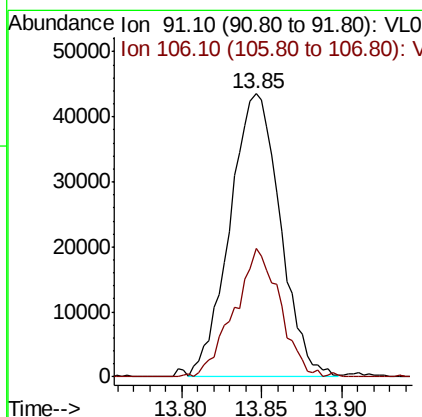
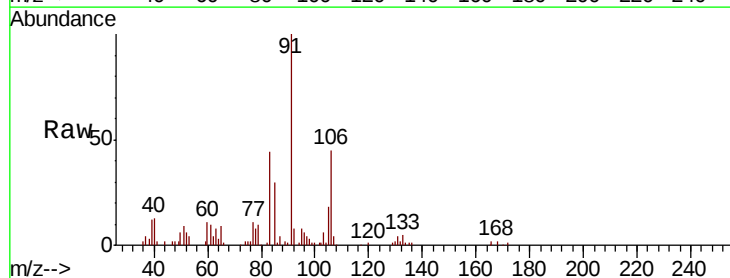
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

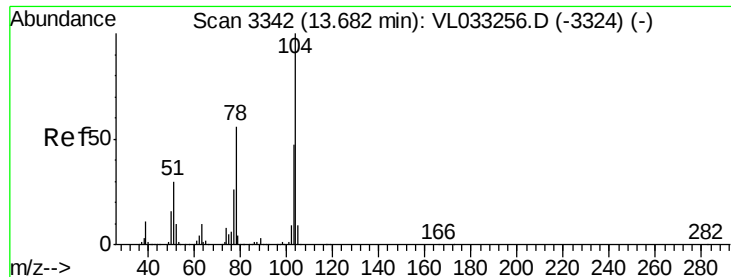
Tgt Ion: 91 Resp: 108627
Ion Ratio Lower Upper
91 100
106 76.5 35.0 52.4#



#60
o-Xylene
Concen: 0.345 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion: 91 Resp: 93591
Ion Ratio Lower Upper
91 100
106 41.5 21.1 63.4

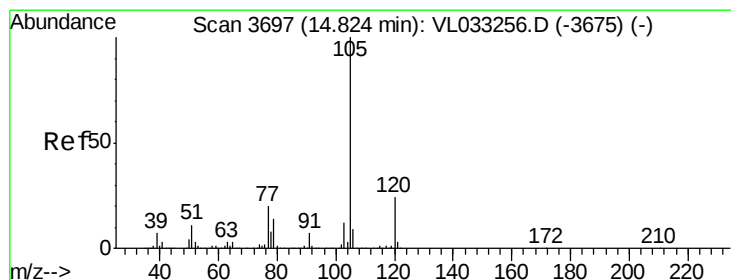
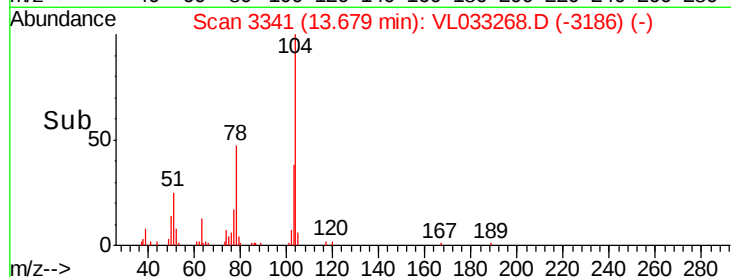
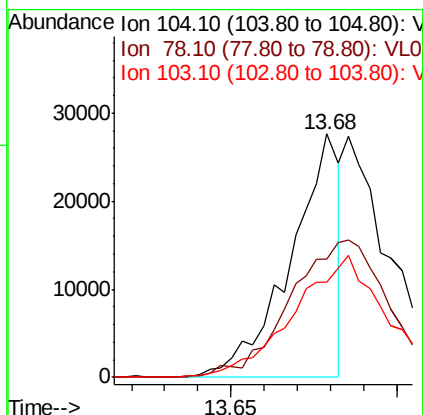
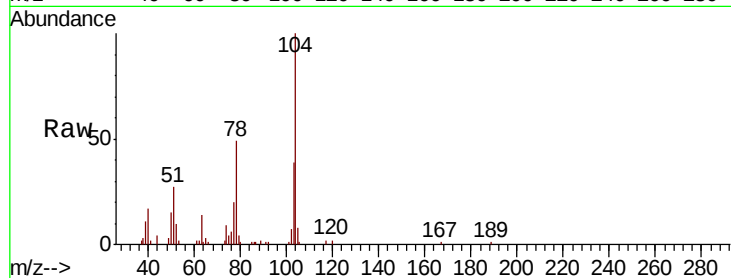




#61
Styrene
Concen: 0.155 ppbv
RT: 13.68 min Scan# 3341
Delta R.T. -0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

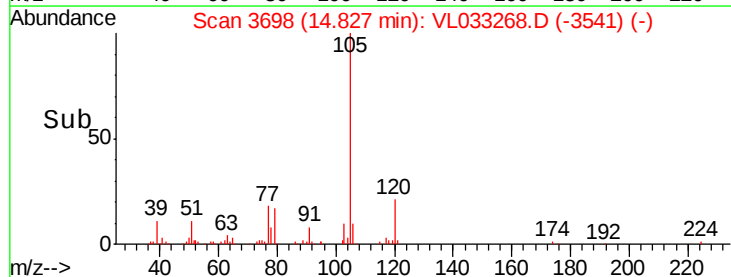
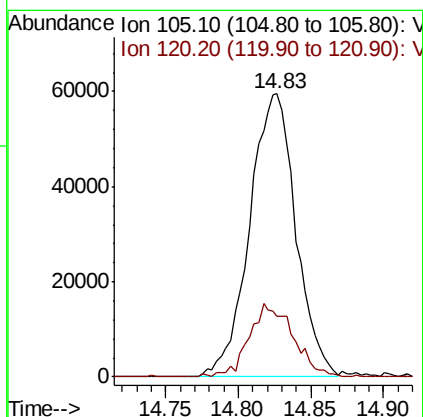
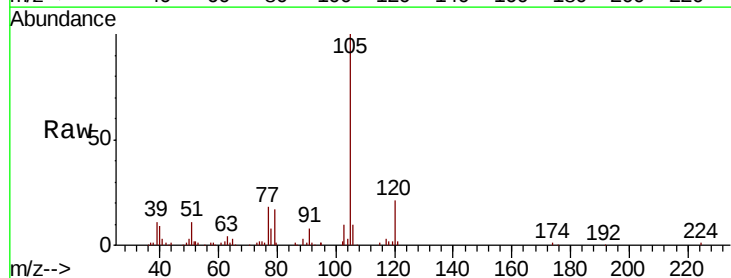
Instrument :
MSVOA_L
ClientSampleId :
0.4 PPB MDL

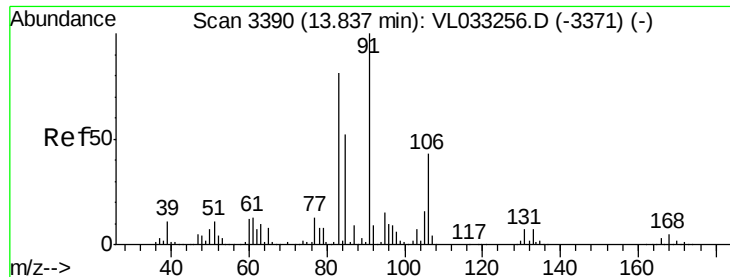
Tgt Ion:104 Resp: 28532
Ion Ratio Lower Upper
104 100
78 0.0 43.9 65.9#
103 0.0 38.3 57.5#



#62
Isopropylbenzene
Concen: 0.365 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. 0.00 min
Lab File: VL033268.D
Acq: 8 Mar 2019 22:08

Tgt Ion:105 Resp: 132159
Ion Ratio Lower Upper
105 100
120 24.7 19.7 29.5

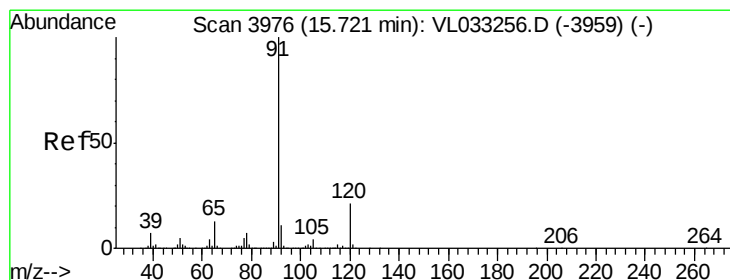
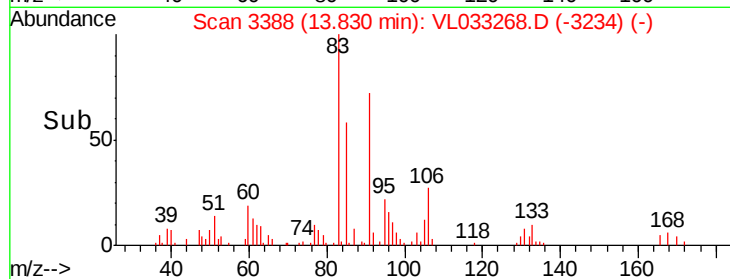
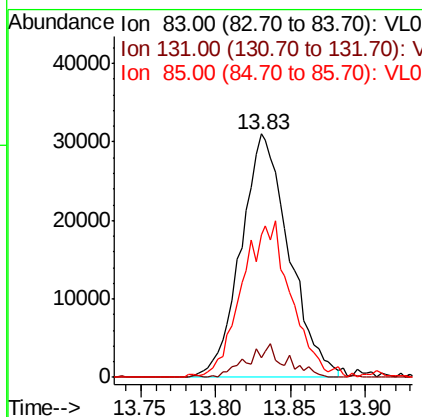
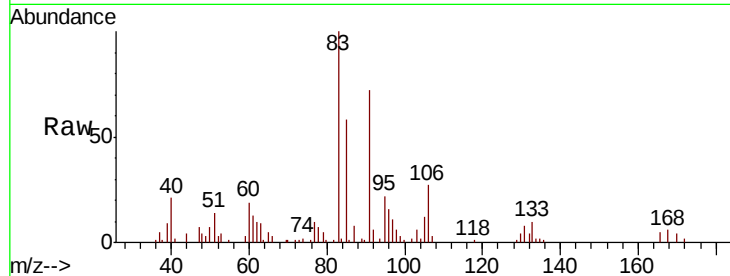




#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.398 ppbv
 RT: 13.83 min Scan# 3388
 Delta R.T. -0.01 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

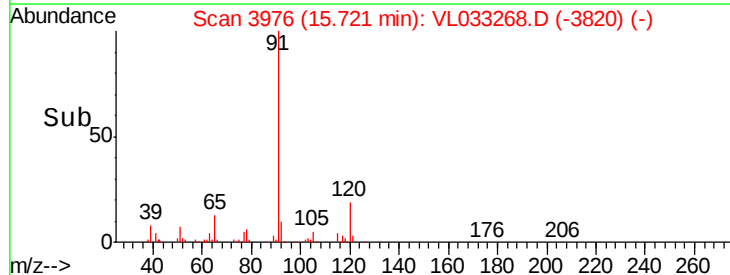
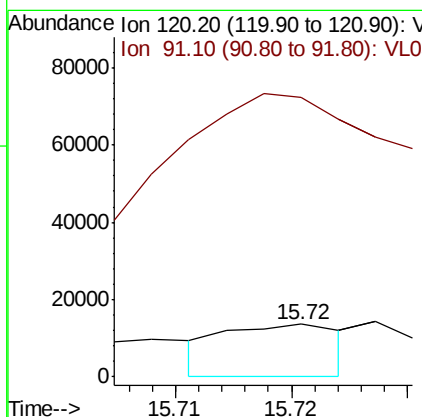
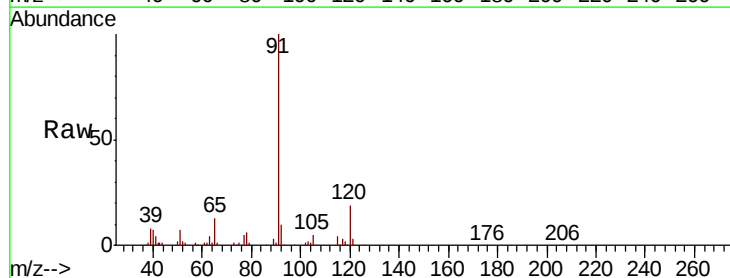
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

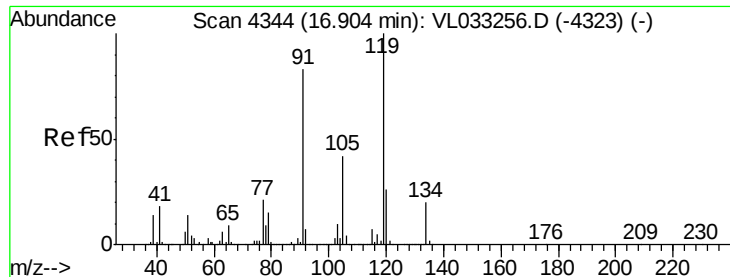
Tgt Ion: 83 Resp: 69320
 Ion Ratio Lower Upper
 83 100
 131 10.8 4.7 14.0
 85 66.7 32.4 97.0



#64
 n-propylbenzene
 Concen: 0.110 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion: 120 Resp: 9724
 Ion Ratio Lower Upper
 120 100
 91 1681.0 392.8 589.2#

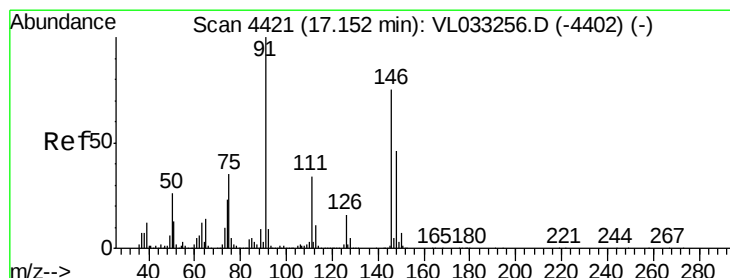
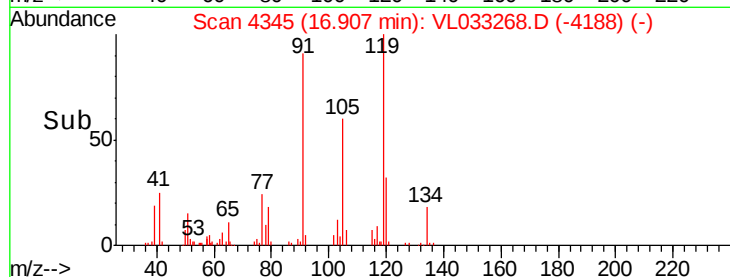
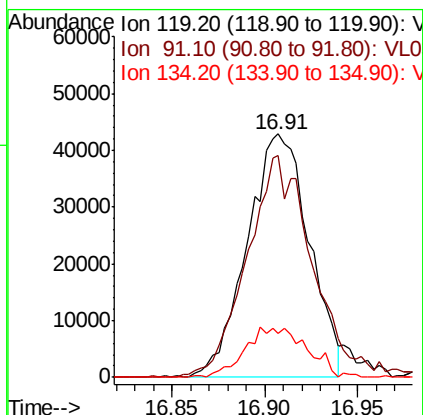
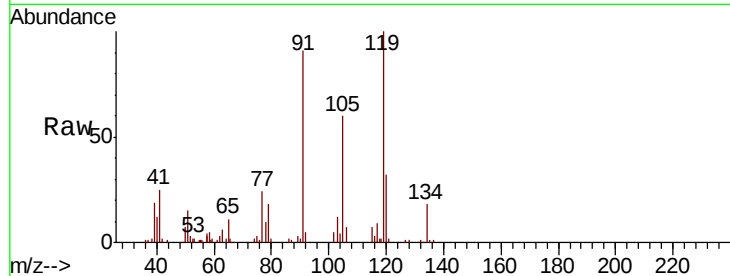




#65
 tert-Butylbenzene
 Concen: 0.327 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

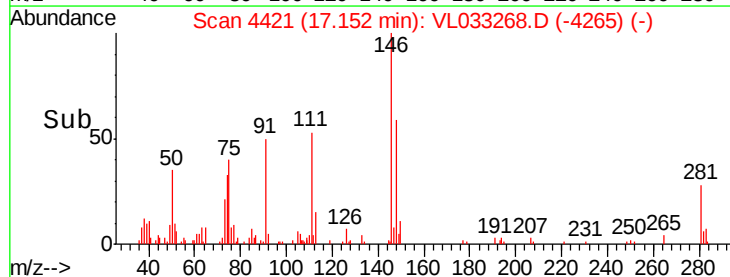
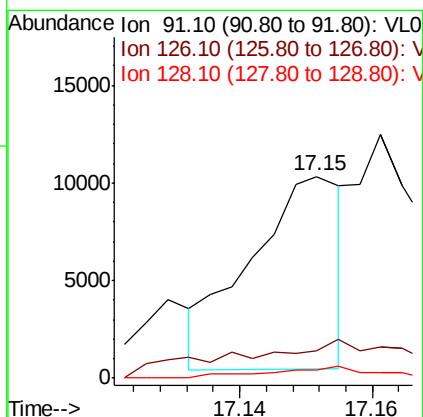
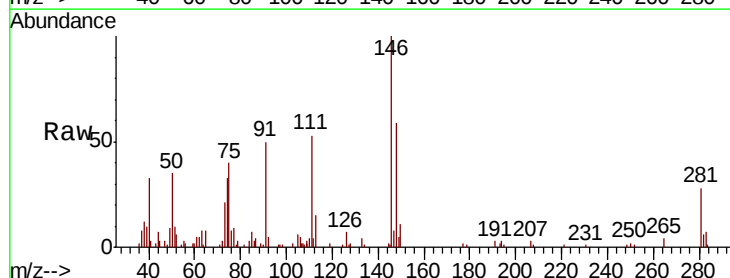
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

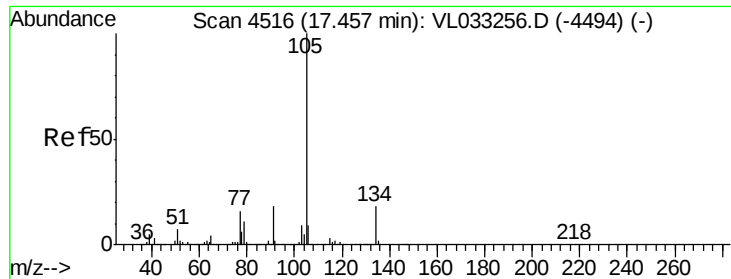
Tgt Ion: 119 Resp: 99607
 Ion Ratio Lower Upper
 119 100
 91 97.4 67.3 100.9
 134 20.7 15.5 23.3



#66
 Benzyl Chloride
 Concen: 0.084 ppbv
 RT: 17.15 min Scan# 4421
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion: 91 Resp: 9528
 Ion Ratio Lower Upper
 91 100
 126 51.4 13.0 19.6#
 128 6.3 4.2 6.2#





#67

sec-Butylbenzene

Concen: 0.339 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

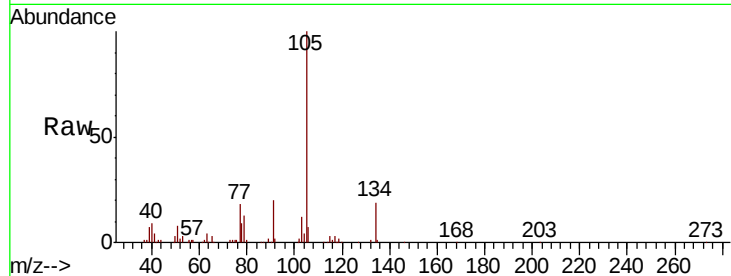
0.4 PPB MDL

Tgt Ion:105 Resp: 146616

Ion Ratio Lower Upper

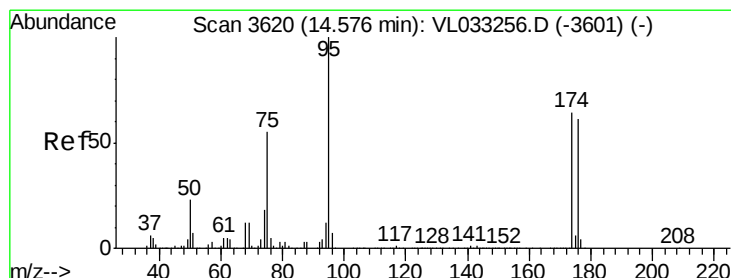
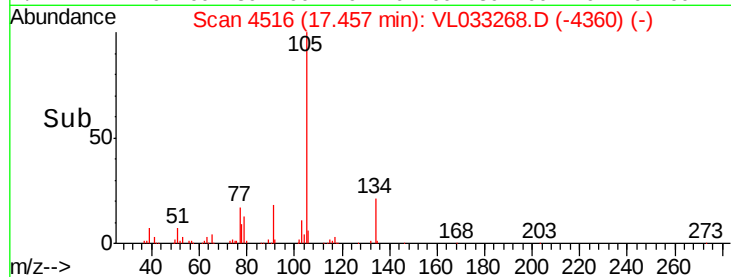
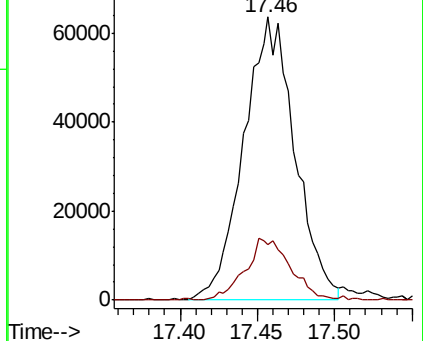
105 100

134 19.7 14.0 21.0



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: 9.966 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

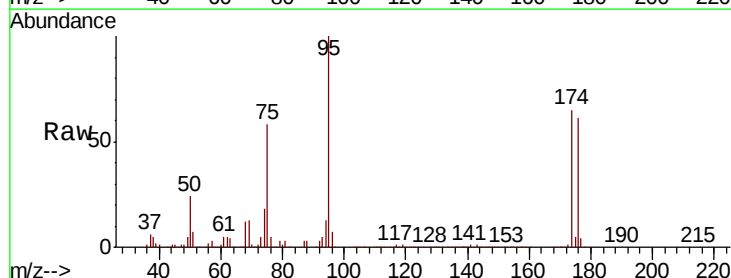
Tgt Ion: 95 Resp: 1827994

Ion Ratio Lower Upper

95 100

174 63.8 51.7 77.5

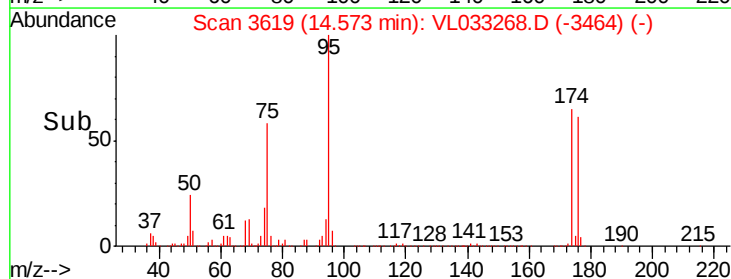
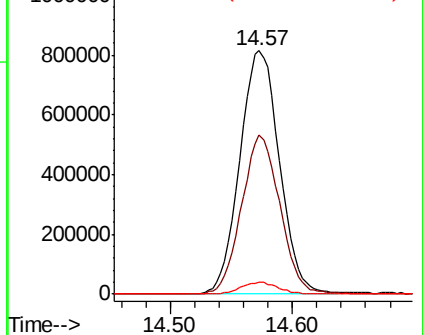
175 4.7 3.8 5.8

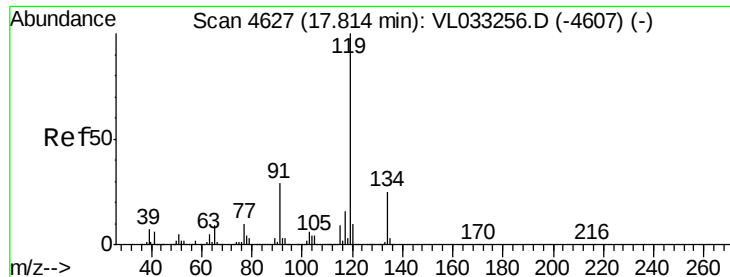


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

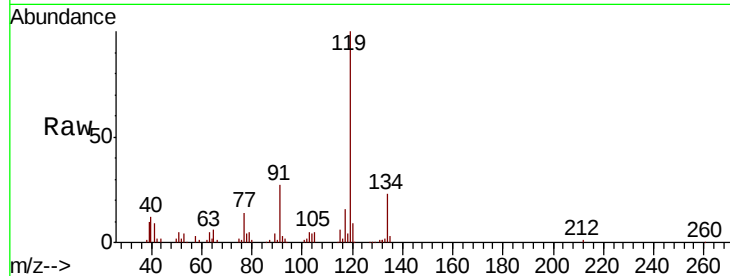




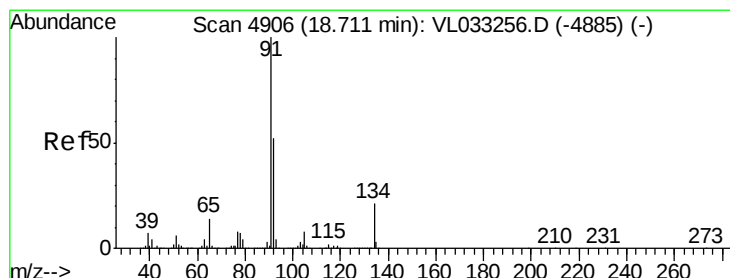
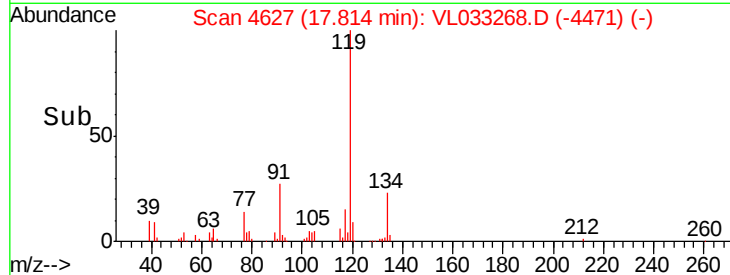
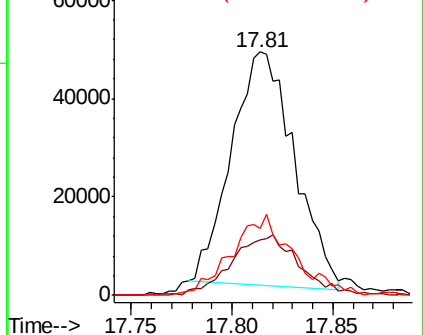
#69
 p-Isopropyltoluene
 Concen: 0.293 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.7	19.8	29.8
91	34.6	23.9	35.9

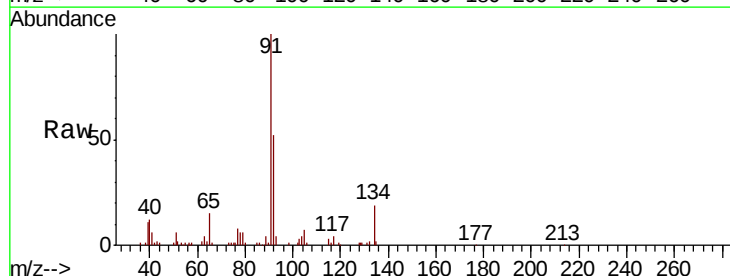


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

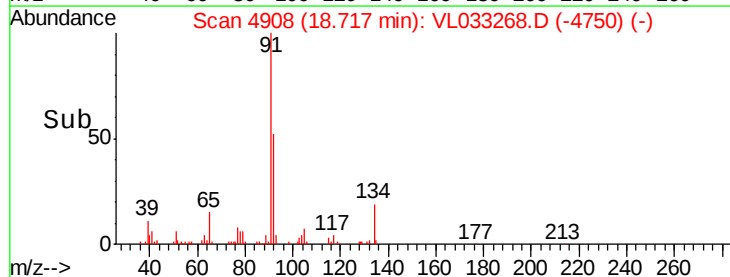
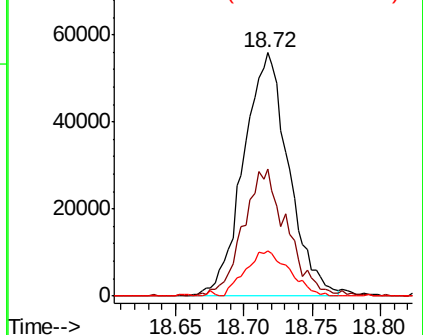


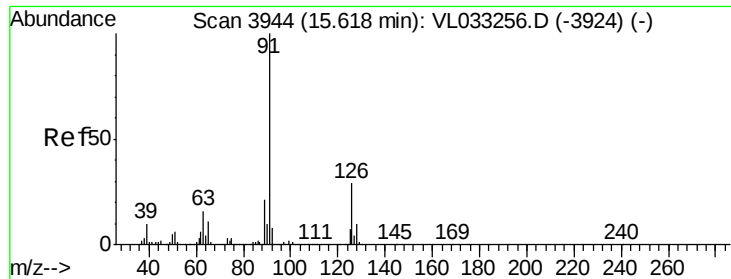
#70
 n-Butylbenzene
 Concen: 0.338 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. 0.01 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.1	42.6	63.8
134	18.8	17.3	25.9



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





#71

2-Chlorotoluene

Concen: 0.343 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

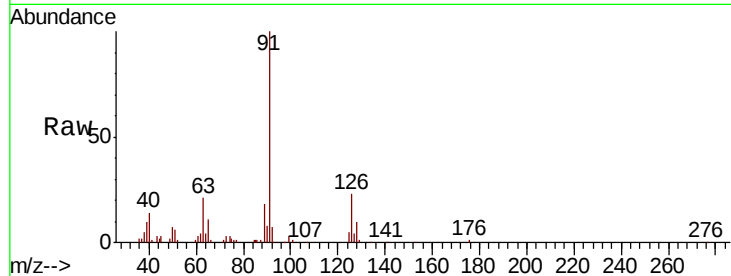
0.4 PPB MDL

Tgt Ion: 91 Resp: 92781

Ion Ratio Lower Upper

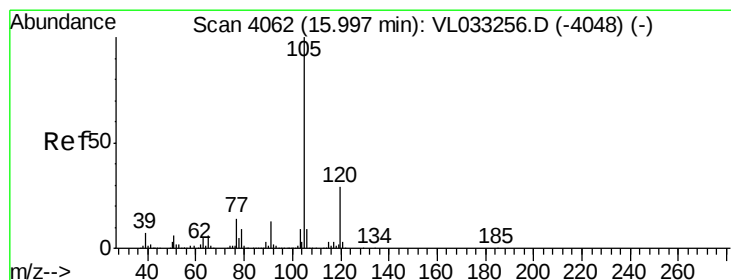
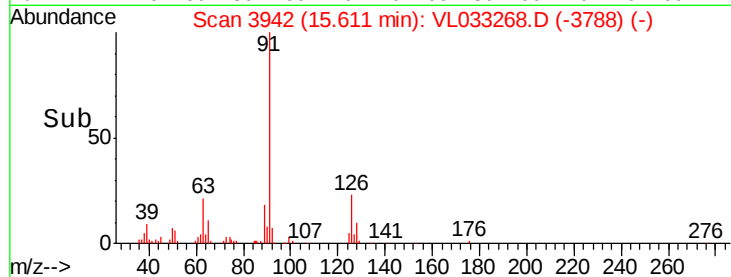
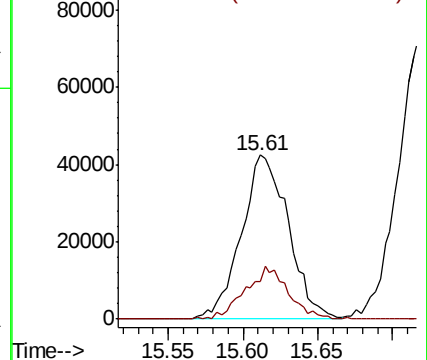
91 100

126 29.3 11.7 46.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.323 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Tgt Ion: 105 Resp: 91150

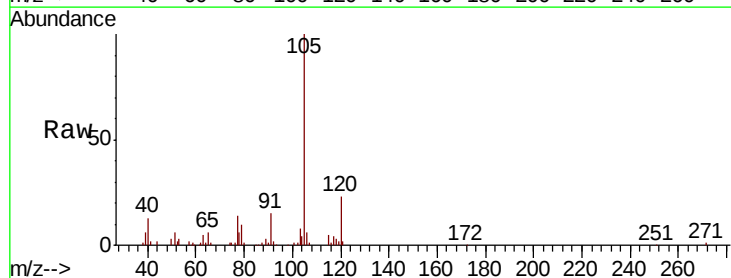
Ion Ratio Lower Upper

105 100

120 28.6 22.9 34.3

91 16.3 10.4 15.6#

77 16.0 11.4 17.2

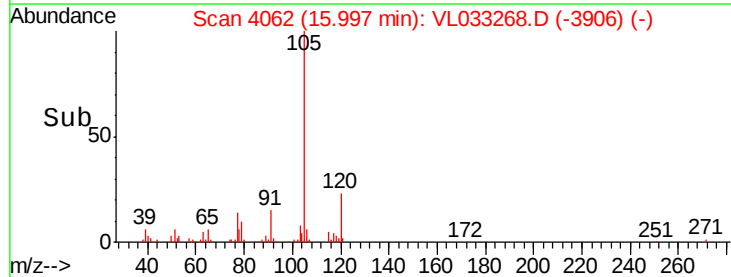
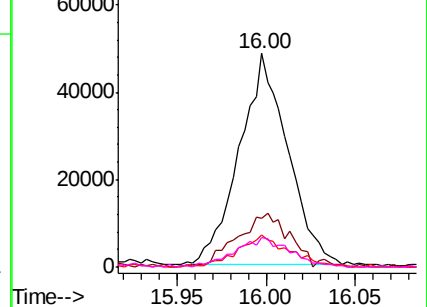


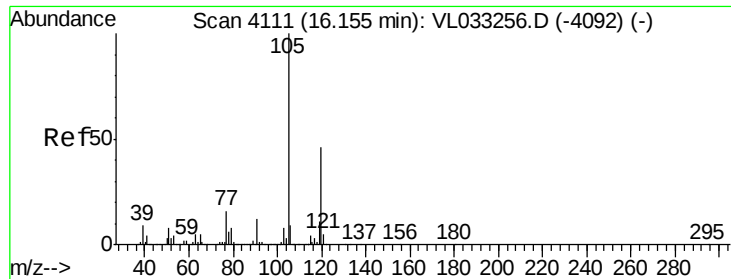
Abundance Ion 105.10 (104.80 to 105.80): V

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

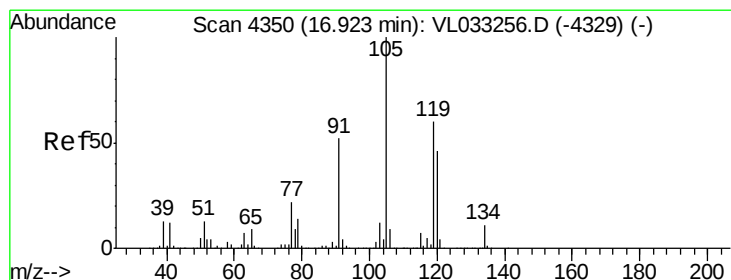
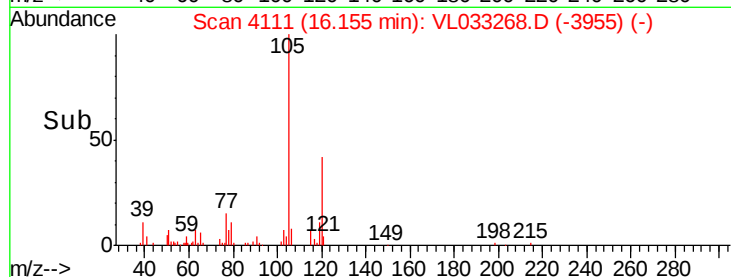
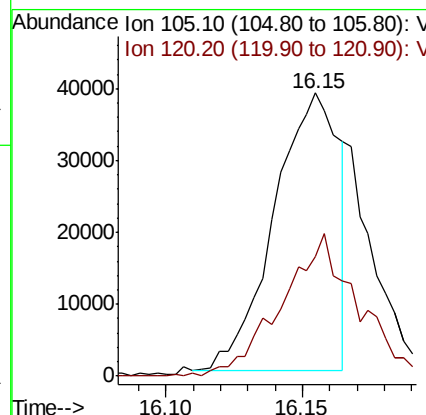
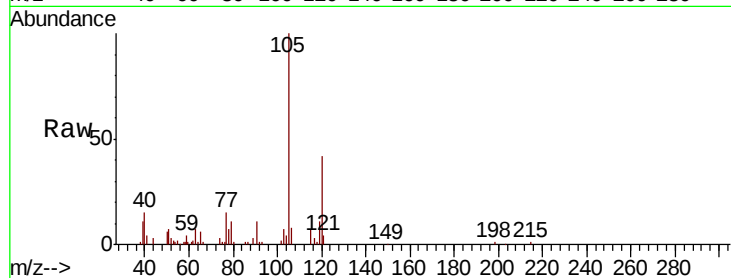




#73
 1,3,5-Trimethylbenzene
 Concen: 0.236 ppbv
 RT: 16.15 min Scan# 4111
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

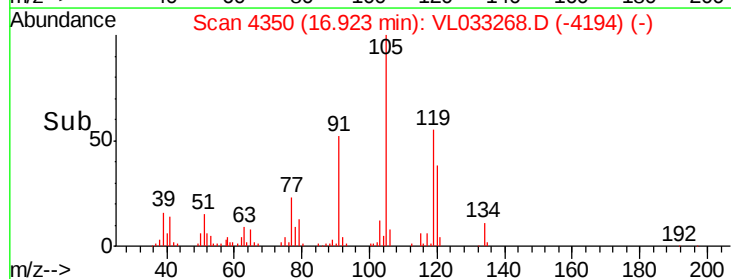
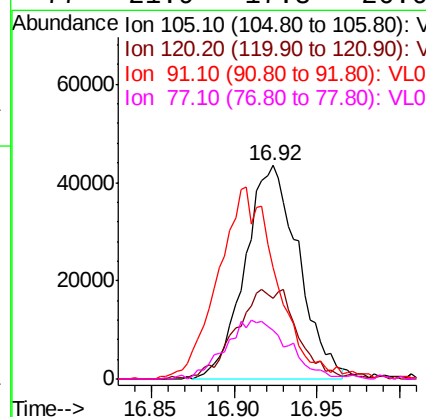
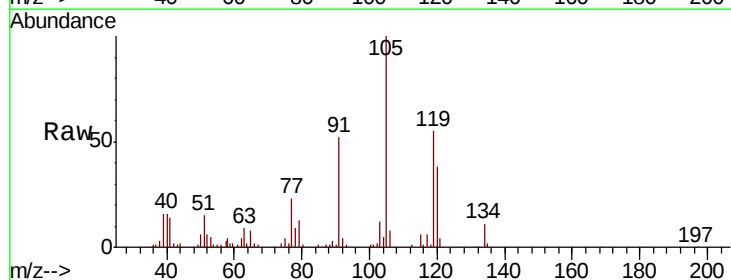
Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

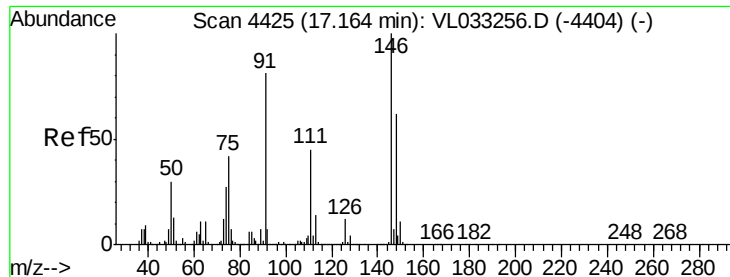
Tgt Ion:105 Resp: 63326
 Ion Ratio Lower Upper
 105 100
 120 45.7 36.6 55.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.350 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion:105 Resp: 97818
 Ion Ratio Lower Upper
 105 100
 120 36.3 36.7 55.1#
 91 49.6 42.1 63.1
 77 21.9 17.8 26.6





#75

1,3-Dichlorobenzene

Concen: 0.222 ppbv

RT: 17.16 min Scan# 4424

Delta R.T. -0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

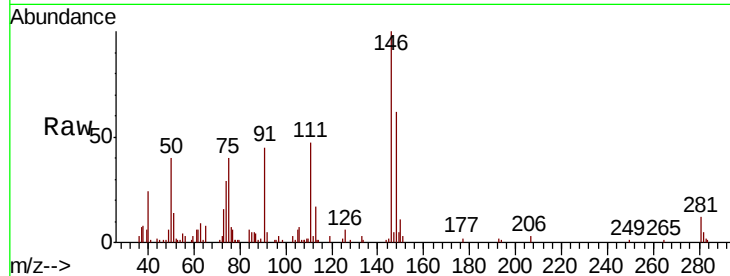
Tgt Ion:146 Resp: 36712

Ion Ratio Lower Upper

146 100

111 86.6 22.9 68.7#

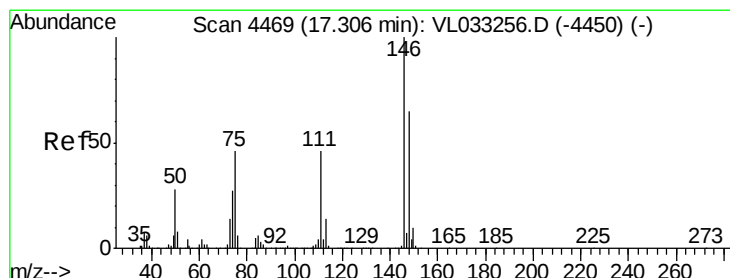
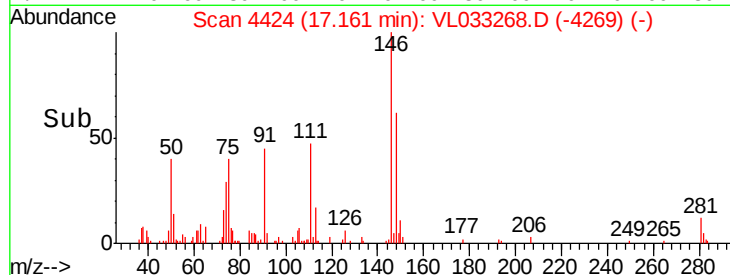
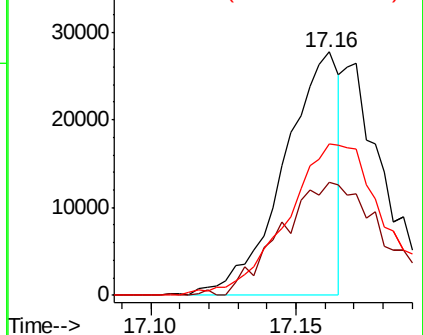
148 110.8 31.6 94.7#



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: 0.351 ppbv

RT: 17.31 min Scan# 4469

Delta R.T. 0.00 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

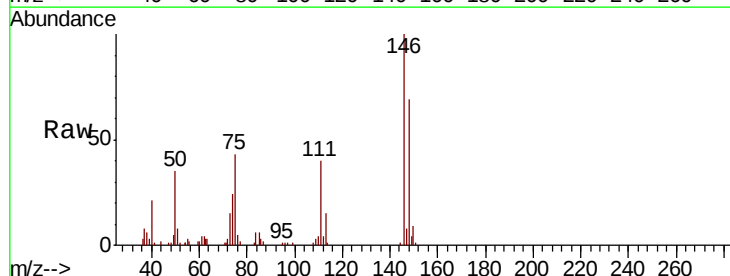
Tgt Ion:146 Resp: 56831

Ion Ratio Lower Upper

146 100

111 48.6 22.6 67.7

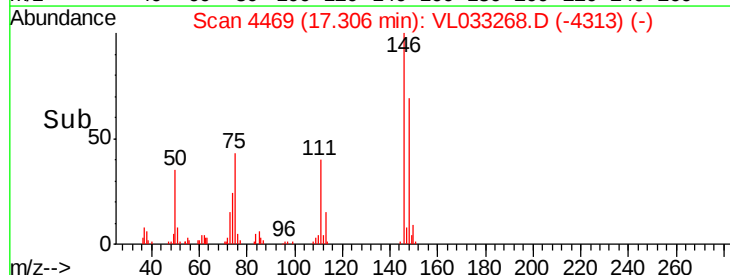
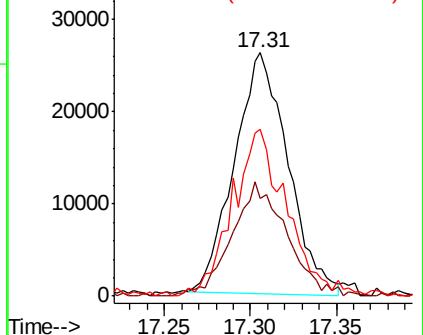
148 70.6 32.3 96.9

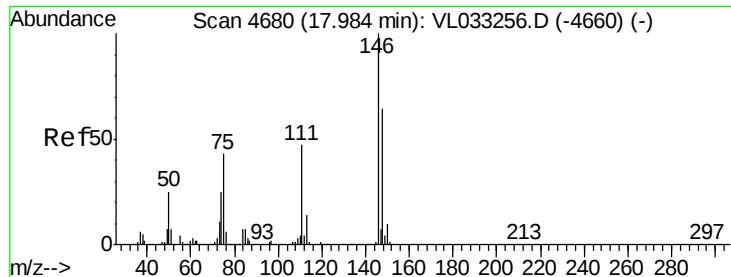


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

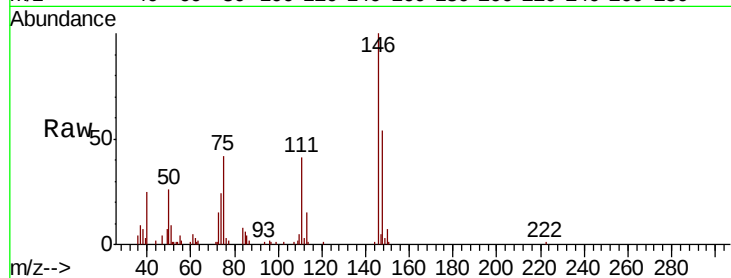




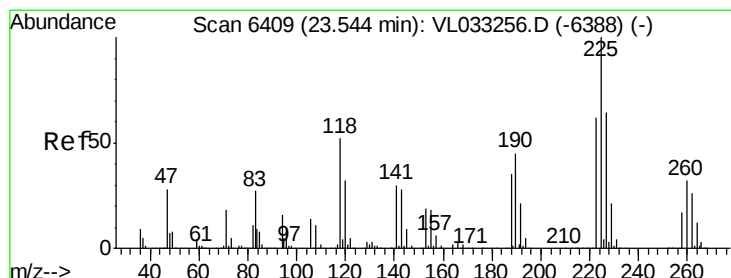
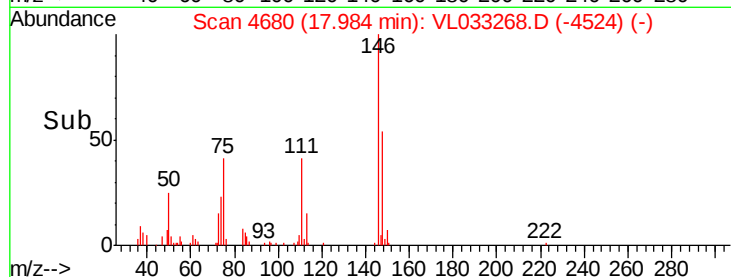
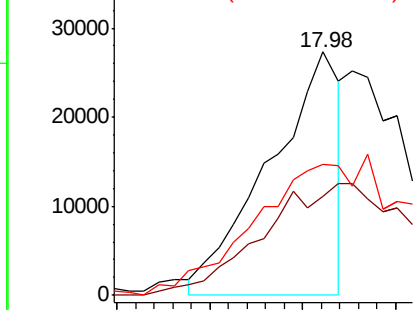
#77
 1,2-Dichlorobenzene
 Concen: 0.183 ppbv
 RT: 17.98 min Scan# 4680
 Delta R.T. 0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

Tgt Ion:146 Resp: 29117
 Ion Ratio Lower Upper
 146 100
 111 0.0 23.8 71.2#
 148 0.0 32.0 96.2#

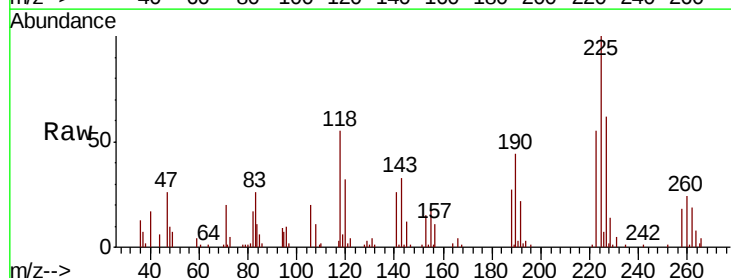


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.10 (110.80 to 111.80): V
 Ion 148.00 (147.70 to 148.70): V

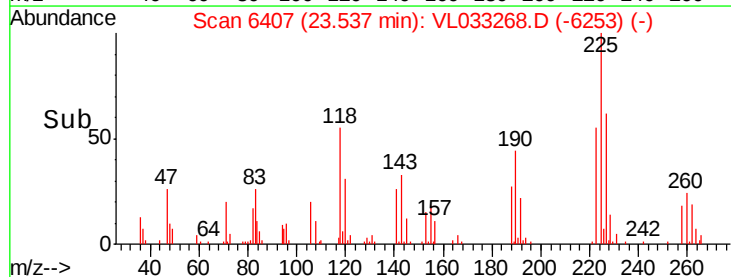
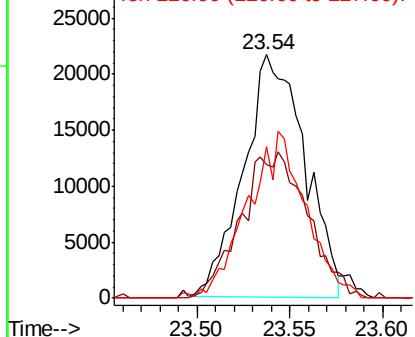


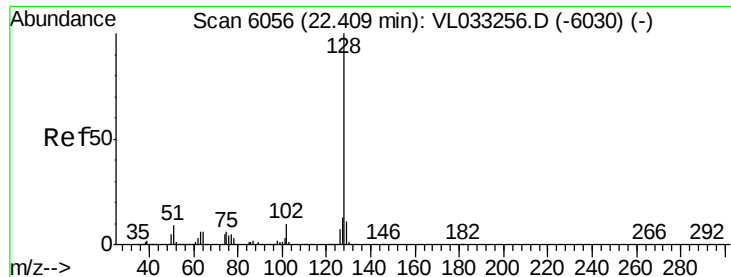
#78
 Hexachloro-1,3-Butadiene
 Concen: 0.413 ppbv
 RT: 23.54 min Scan# 6407
 Delta R.T. -0.01 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Tgt Ion:225 Resp: 49842
 Ion Ratio Lower Upper
 225 100
 223 65.9 50.4 75.6
 227 65.3 51.4 77.0



Abundance Ion 224.90 (224.60 to 225.60): V
 Ion 222.90 (222.60 to 223.60): V
 Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.132 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. 0.01 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

Instrument :

MSVOA_L

ClientSampleId :

0.4 PPB MDL

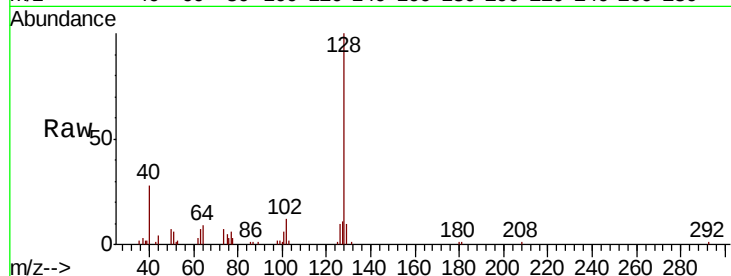
Tgt Ion:128 Resp: 40322

Ion Ratio Lower Upper

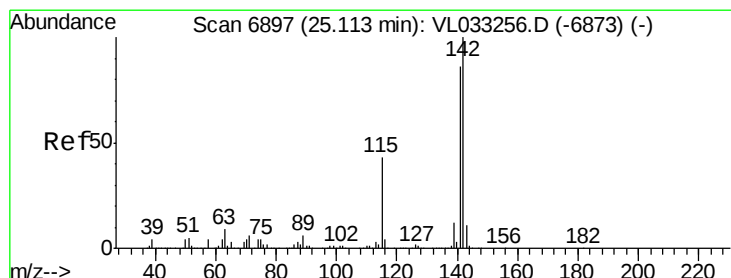
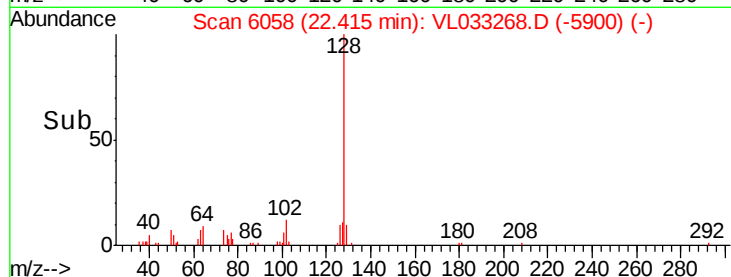
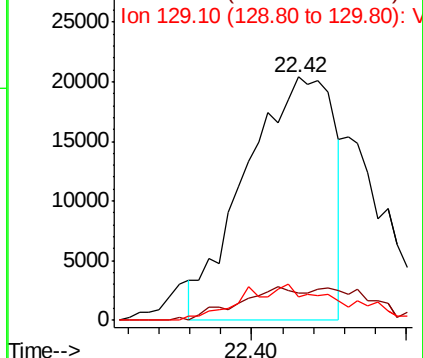
128 100

127 13.5 10.3 15.5

129 9.4 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: 0.038 ppbv

RT: 25.13 min Scan# 6902

Delta R.T. 0.02 min

Lab File: VL033268.D

Acq: 8 Mar 2019 22:08

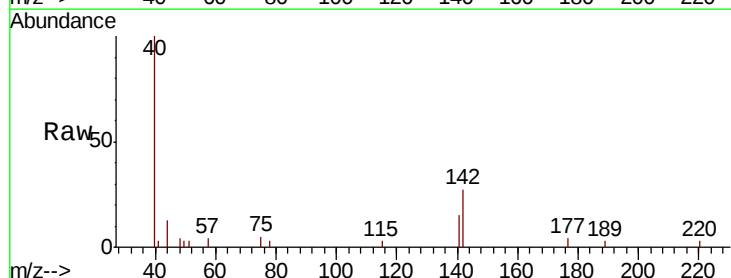
Tgt Ion:142 Resp: 2844

Ion Ratio Lower Upper

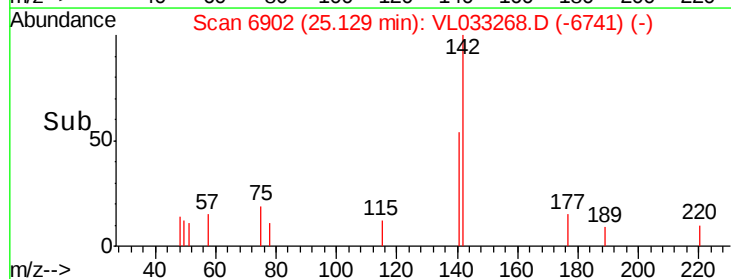
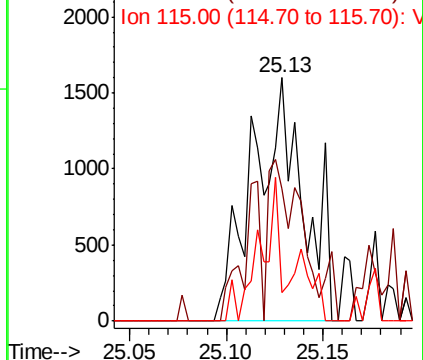
142 100

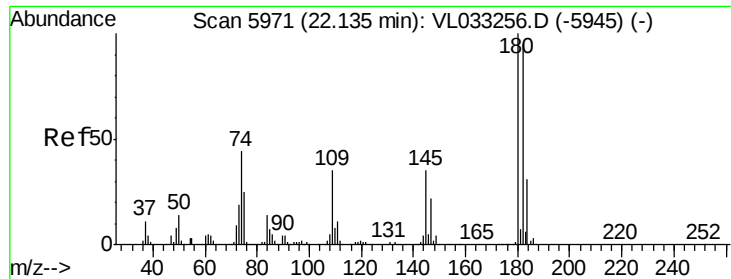
141 66.4 67.6 101.4#

115 34.7 33.9 50.9



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

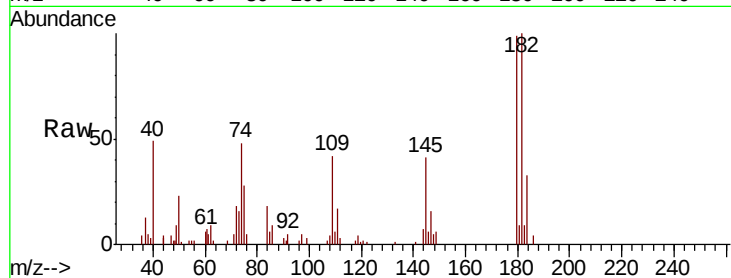




#81
 1,2,4-Trichlorobenzene
 Concen: 0.031 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.00 min
 Lab File: VL033268.D
 Acq: 8 Mar 2019 22:08

Instrument :
 MSVOA_L
 ClientSampleId :
 0.4 PPB MDL

Tgt Ion:180 Resp: 4908
 Ion Ratio Lower Upper
 180 100
 182 0.0 76.3 114.5#
 184 268.4 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

