

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121718\
 Data File : VL033002.D
 Acq On : 17 Dec 2018 19:15
 Operator : SY/AP
 Sample : J6382-02DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 18 01:15:52 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	1151203	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2703648	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3096312	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2233197	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	79105	0.515 ppbv	96
3) Chlorodifluoromethane	2.99	51	442821	5.079 ppbv #	58
4) Chloromethane	3.17	50	63657	1.254 ppbv	100
9) Propene	3.24	41	1364659	39.585 ppbv	93
10) Heptane	8.25	43	412666	3.187 ppbv	99
11) Trichlorofluoromethane	4.01	101	48198	0.333 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	6349	0.051 ppbv #	76
13) Ethanol	3.67	45	3195517	269.217 ppbv	96
15) Acetone	3.90	43	1526972	15.453 ppbv #	74
16) 1,3-Butadiene	3.35	39	205824	5.250 ppbv #	20
17) tert-Butyl alcohol	4.38	59	16599	0.660 ppbv #	98
19) Isopropyl Alcohol	4.04	45	386713	6.232 ppbv #	1
20) Methylene Chloride	4.42	84	380576	7.880 ppbv	98
21) Allyl Chloride	4.44	41	280100	3.478 ppbv #	63
22) trans-1,2-Dichloroethene	4.97	96	149277	2.486 ppbv	96
23) Vinyl Acetate	5.14	43	993299	5.937 ppbv #	1
24) 1,1-Dichloroethane	5.15	63	5845	0.040 ppbv #	87
25) Ethyl Acetate	5.79	43	1011020	4.331 ppbv #	81
26) Hexane	5.79	57	1355923	12.582 ppbv #	46
30) Cyclohexane	7.25	84	191446	2.143 ppbv #	83
34) 2-Butanone	5.34	43	213218	1.811 ppbv	99
35) Carbon Tetrachloride	7.14	117	13658	0.064 ppbv	97
36) Benzene	7.01	78	1245136	6.261 ppbv	99
39) 1,2-Dichloropropane	7.30	63	626711	8.310 ppbv #	22
41) Tetrahydrofuran	6.22	42	7025	0.096 ppbv #	44
42) Bromodichloromethane	7.92	83	5631	0.030 ppbv #	25
44) 2,2,4-Trimethylpentane	8.00	57	2770131	8.206 ppbv	96
50) 4-Methyl-2-Pentanone	8.89	43	21126	0.112 ppbv #	39
51) 2-Hexanone	10.26	43	17879	0.140 ppbv #	38
52) Tetrachloroethene	11.38	164	33790	0.467 ppbv	92
53) Toluene	9.96	91	9302328	44.107 ppbv	96
58) Ethyl Benzene	12.87	91	1308629	3.962 ppbv	98
59) m/p-Xylene	13.13	91	4294302	14.340 ppbv #	100
60) o-Xylene	13.86	91	1354506	4.479 ppbv	100
61) Styrene	13.69	104	39161	0.195 ppbv	97
62) Isopropylbenzene	14.83	105	28654	0.068 ppbv #	59
64) n-propylbenzene	15.73	120	59244	0.541 ppbv	90
65) tert-Butylbenzene	16.93	119	131991	0.337 ppbv #	56
69) p-Isopropyltoluene	17.83	119	19647	0.042 ppbv #	59
70) n-Butylbenzene	18.73	91	33463	0.078 ppbv #	80
71) 2-Chlorotoluene	15.73	91	176368	0.562 ppbv #	44

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Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Dec 18 01:15:52 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

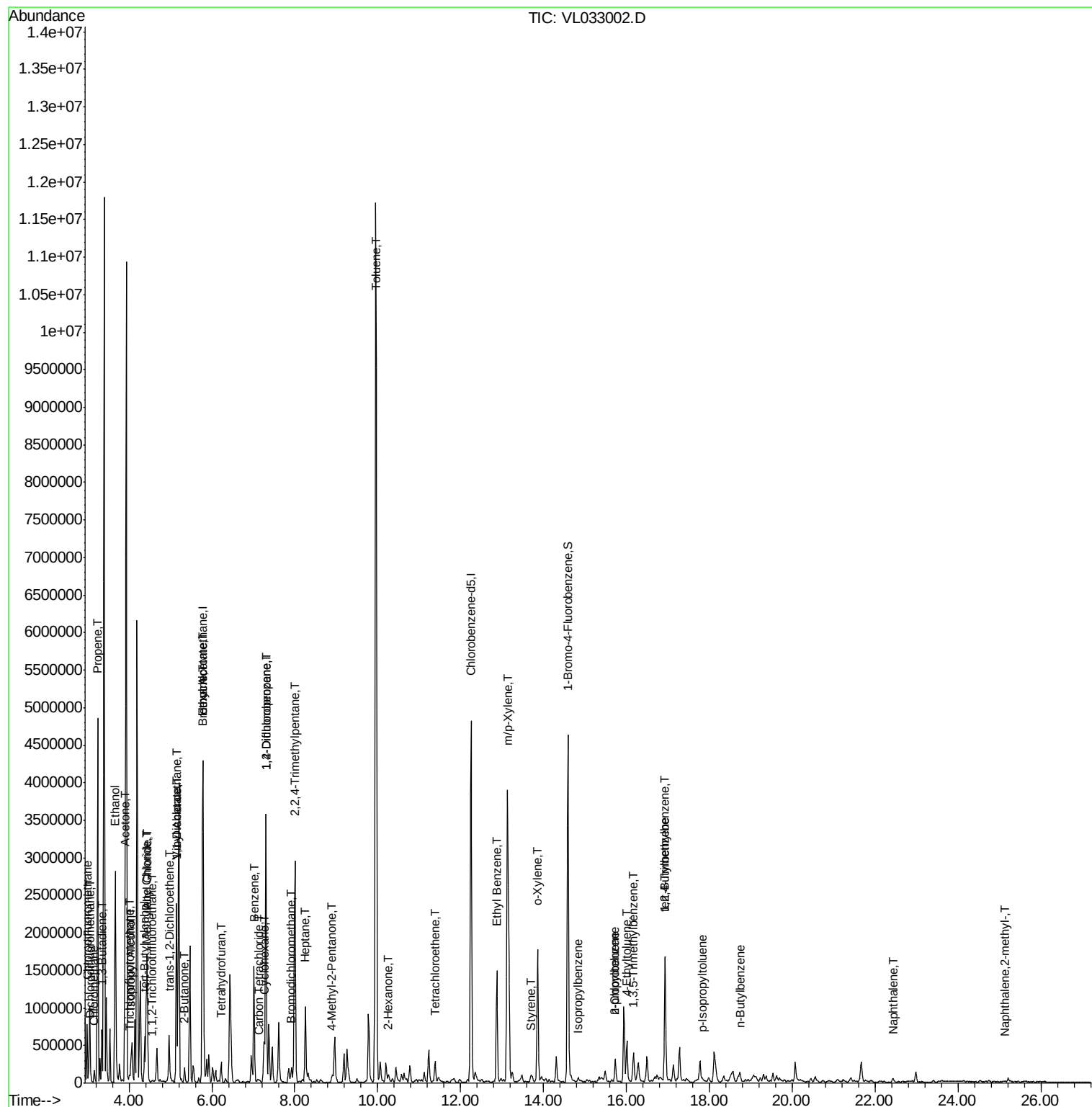
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	16.01	105	444304	1.316	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	267253	0.811	ppbv	94
74) 1,2,4-Trimethylbenzene	16.93	105	1245641	3.347	ppbv #	70
79) Naphthalene	22.43	128	51014	0.212	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	3206	0.062	ppbv #	61

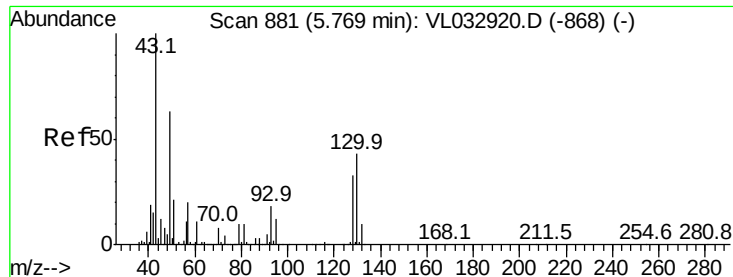
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

ClientSampleId :

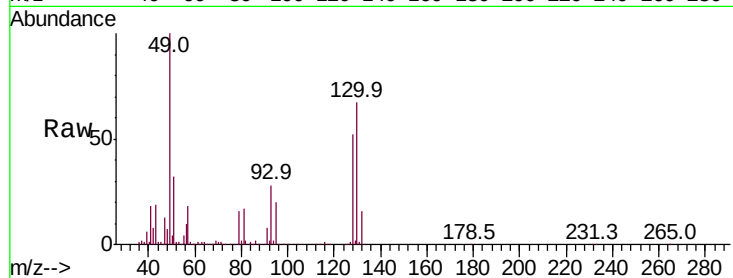
Tot Ion: 49 Resp: 1151203

Ion Ratio Lower Upper

49 100

128 52.4 26.3 78.8

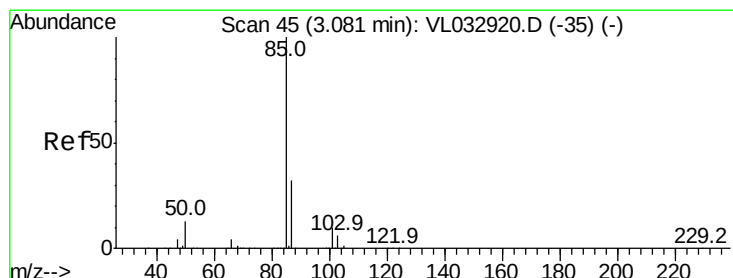
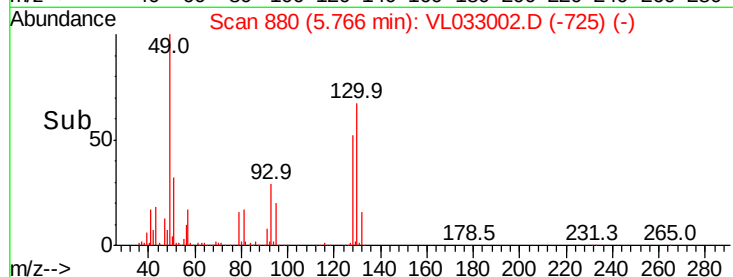
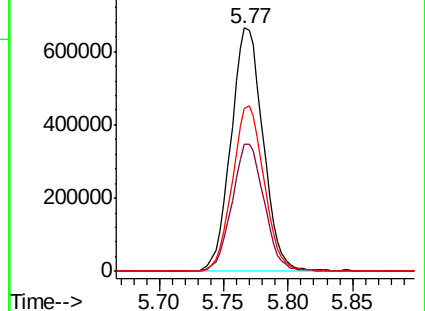
130 67.5 33.9 101.7



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: 0.515 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033002.D

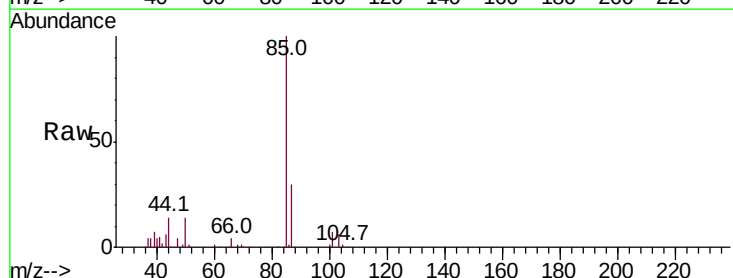
Acq: 17 Dec 2018 19:15

Tgt Ion: 85 Resp: 79105

Ion Ratio Lower Upper

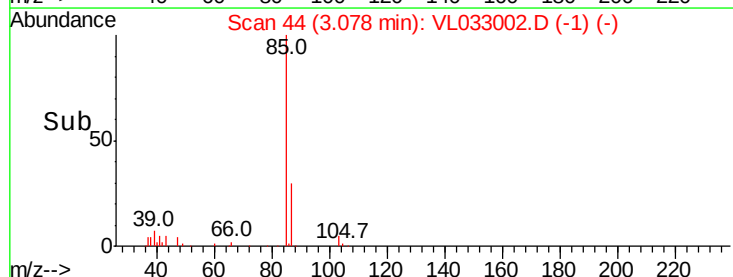
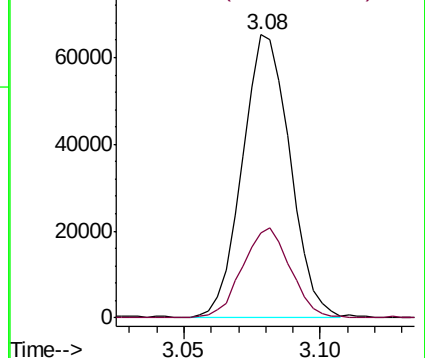
85 100

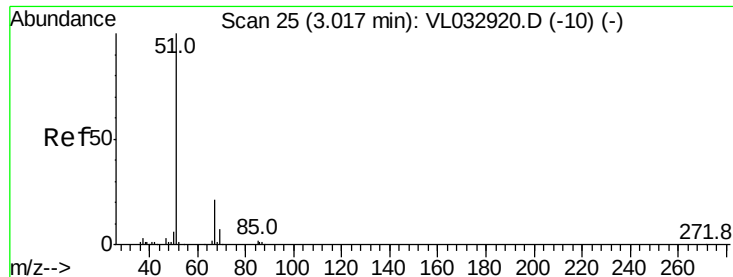
87 29.9 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

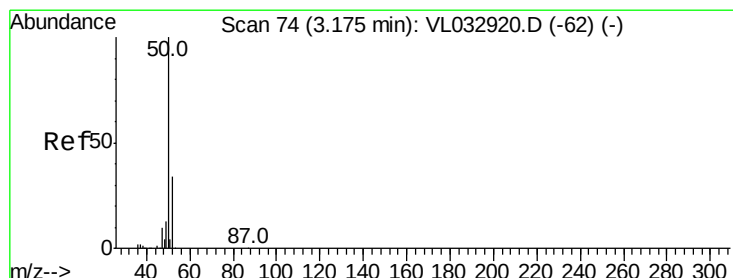
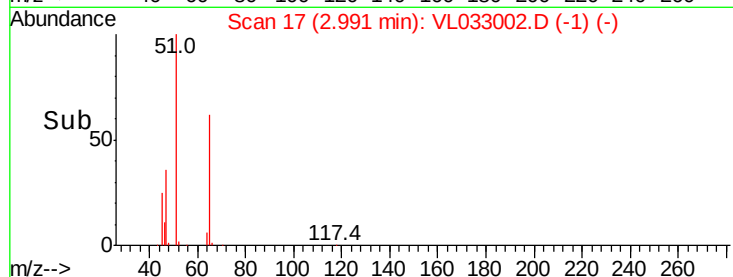
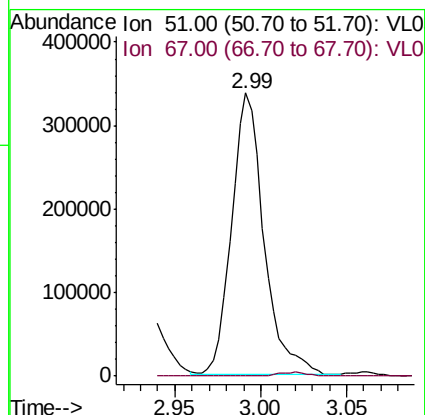
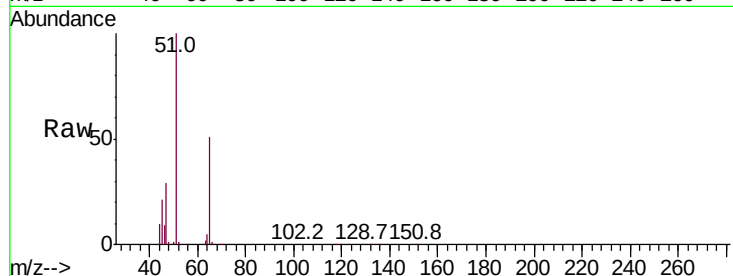




#3
Chlorodifluoromethane
Concen: 5.079 ppbv
RT: 2.99 min Scan# 17
Delta R.T. -0.03 min
Lab File: VL033002.D
Acq: 17 Dec 2018 19:15

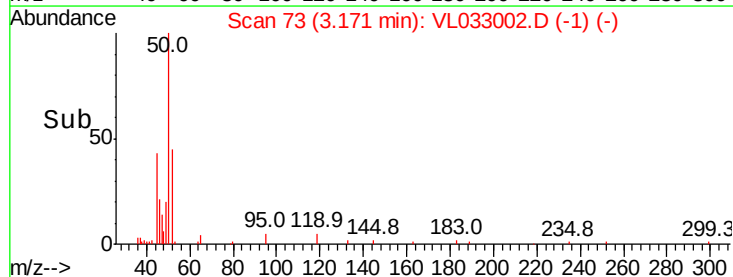
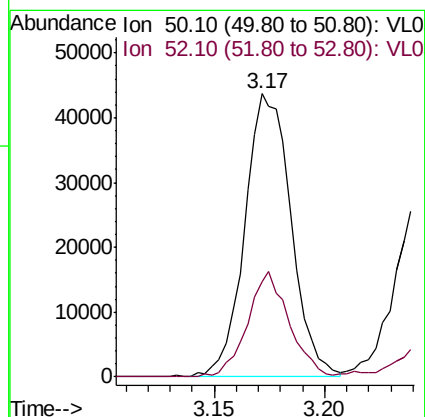
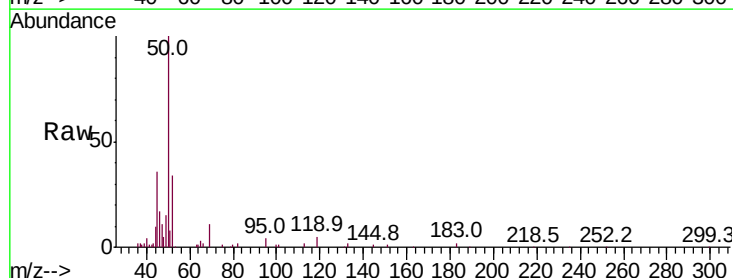
Instrument :
MSVOA_L
ClientSampleId :

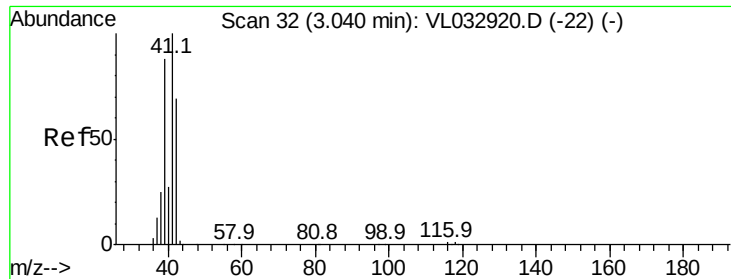
Tot Ion: 51 Resp: 442821
Ion Ratio Lower Upper
51 100
67 1.3 16.8 25.2#



#4
Chloromethane
Concen: 1.254 ppbv
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL033002.D
Acq: 17 Dec 2018 19:15

Tgt Ion: 50 Resp: 63657
Ion Ratio Lower Upper
50 100
52 33.9 27.3 40.9





#9

Propene

Concen: 39.585 ppbv

RT: 3.24 min Scan# 95

Delta R.T. 0.20 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

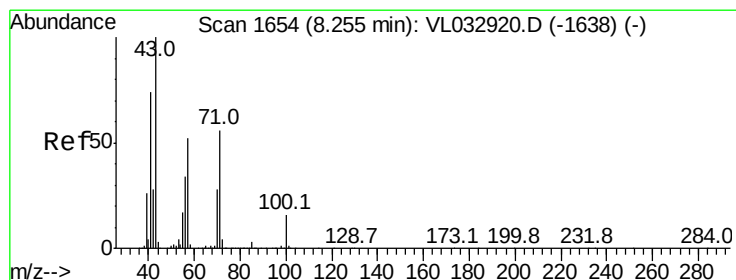
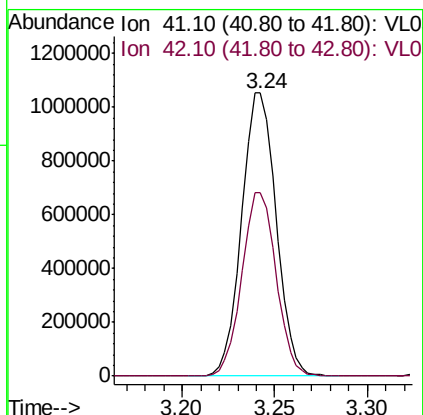
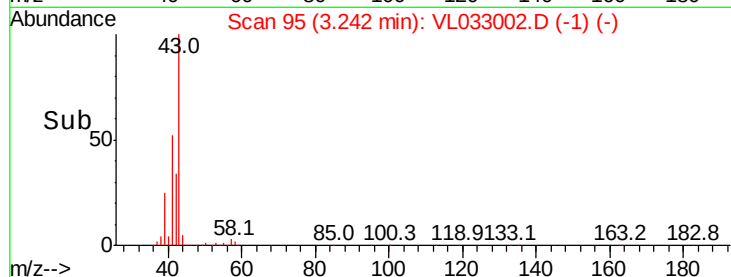
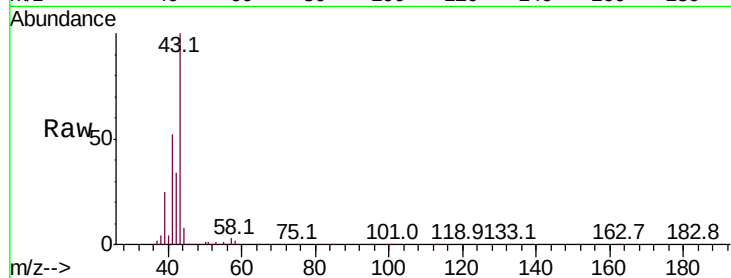
ClientSampleId :

Tot Ion: 41 Resp: 1364659

Ion Ratio Lower Upper

41 100

42 64.2 56.2 84.2



#10

Heptane

Concen: 3.187 ppbv

RT: 8.25 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL033002.D

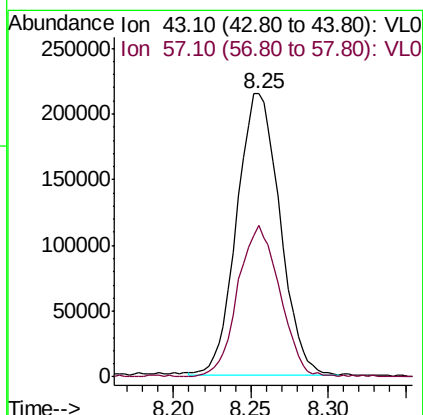
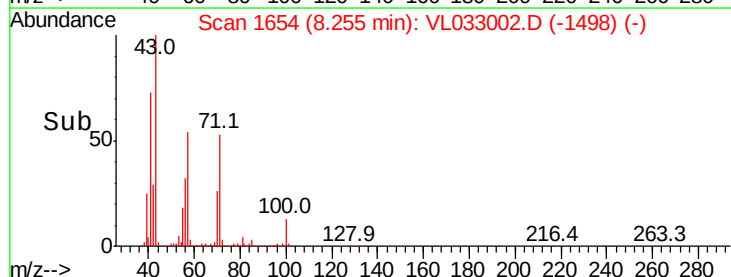
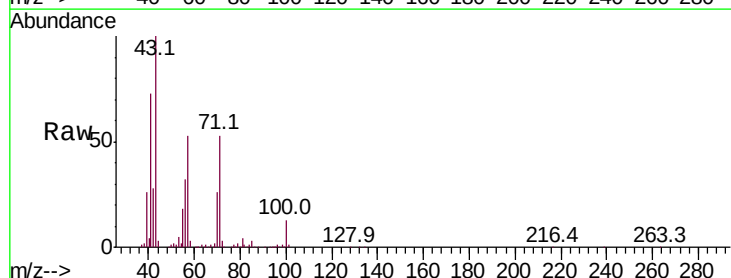
Acq: 17 Dec 2018 19:15

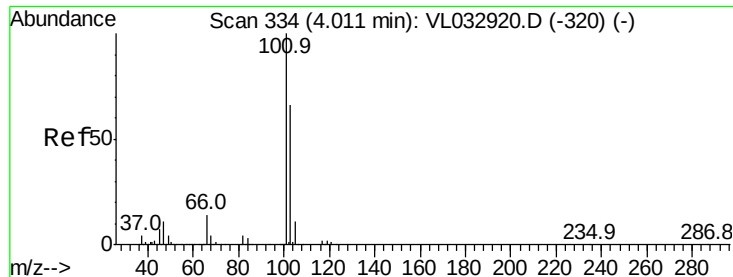
Tgt Ion: 43 Resp: 412666

Ion Ratio Lower Upper

43 100

57 52.6 41.8 62.6





#11

Trichlorofluoromethane

Concen: 0.333 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

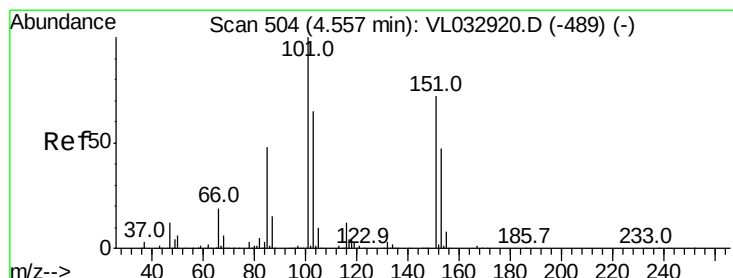
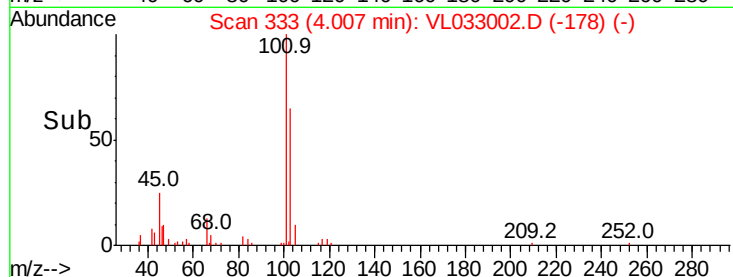
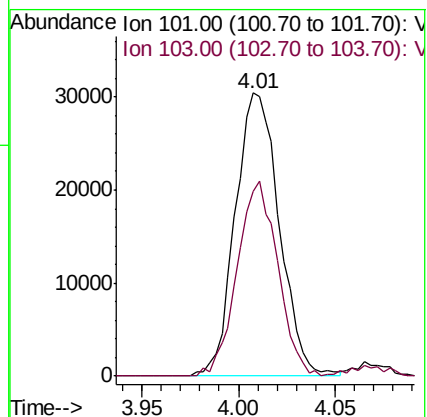
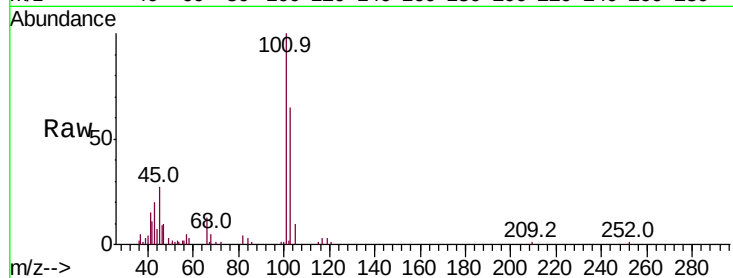
ClientSampleId :

Tot Ion:101 Resp: 48198

Ion Ratio Lower Upper

101 100

103 65.2 52.7 79.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.051 ppbv

RT: 4.56 min Scan# 505

Delta R.T. 0.00 min

Lab File: VL033002.D

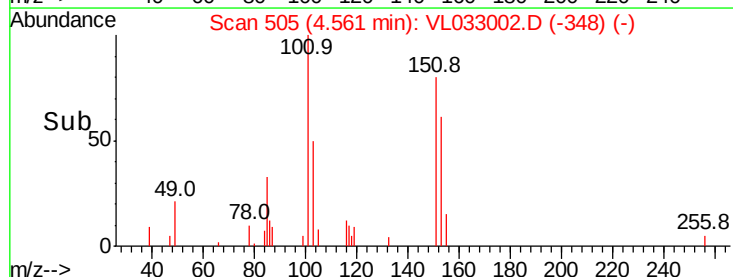
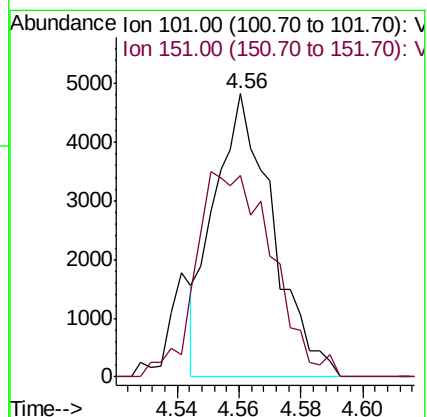
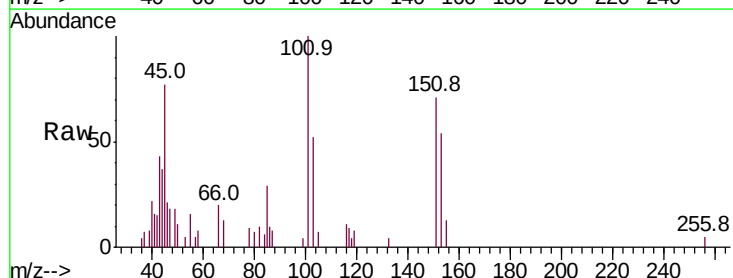
Acq: 17 Dec 2018 19:15

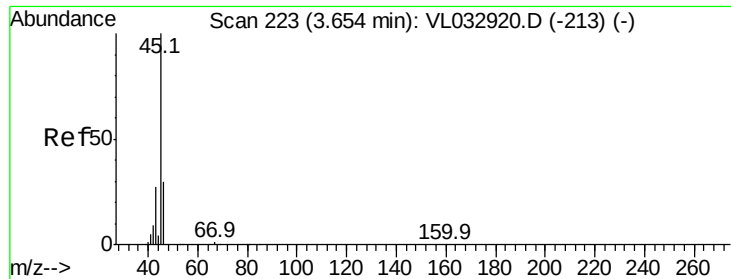
Tgt Ion:101 Resp: 6349

Ion Ratio Lower Upper

101 100

151 94.3 59.3 88.9#





#13

Ethanol

Concen: 269.217 ppbv

RT: 3.67 min Scan# 228

Delta R.T. 0.02 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

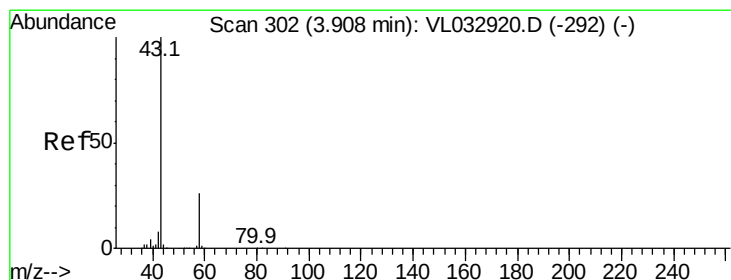
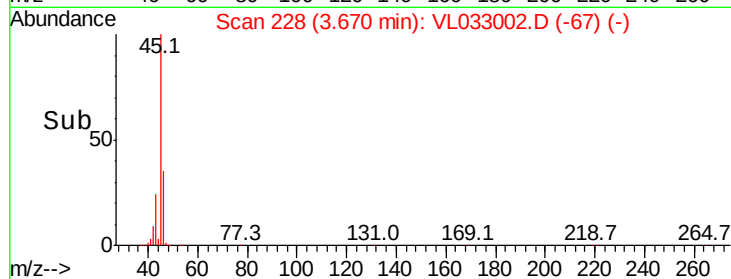
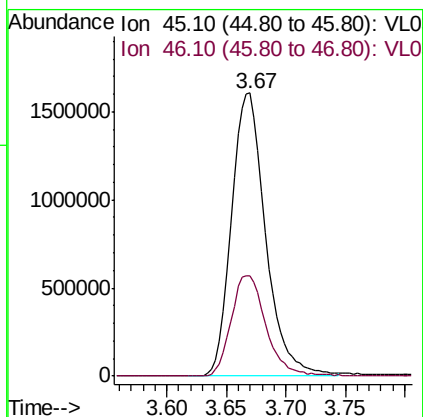
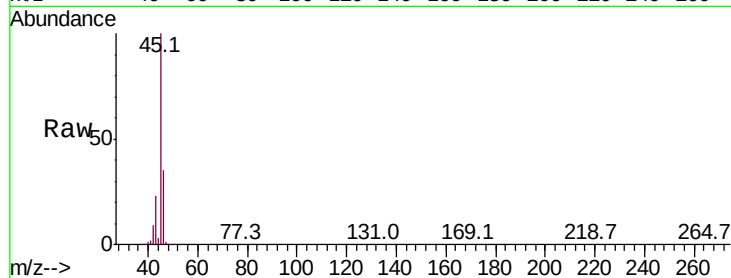
ClientSampleId :

Tot Ion: 45 Resp: 3195517

Ion Ratio Lower Upper

45 100

46 36.9 13.8 55.4



#15

Acetone

Concen: 15.453 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL033002.D

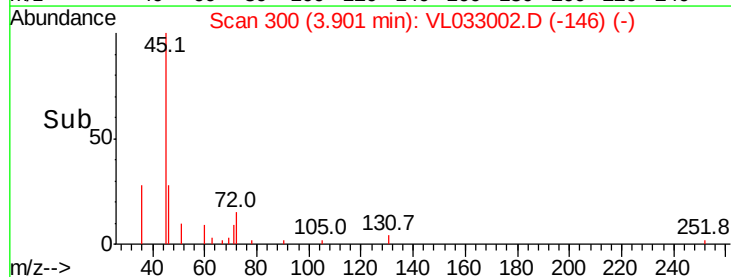
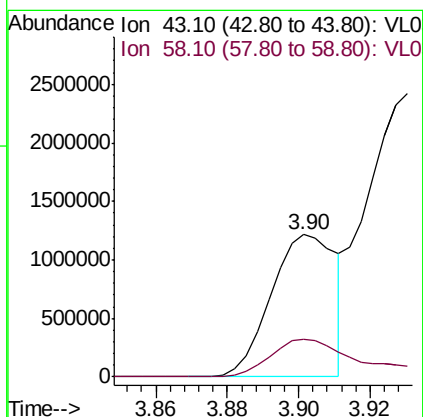
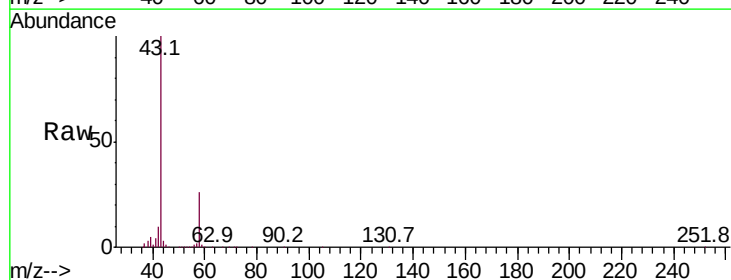
Acq: 17 Dec 2018 19:15

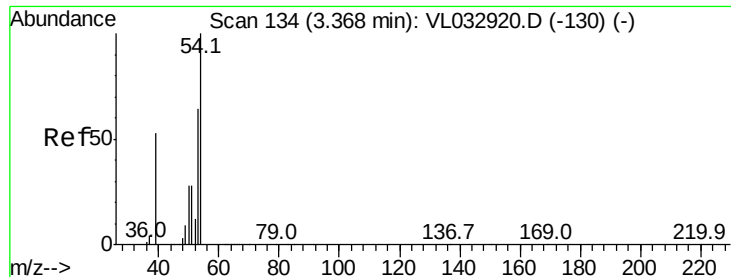
Tgt Ion: 43 Resp: 1526972

Ion Ratio Lower Upper

43 100

58 38.7 20.6 30.8#

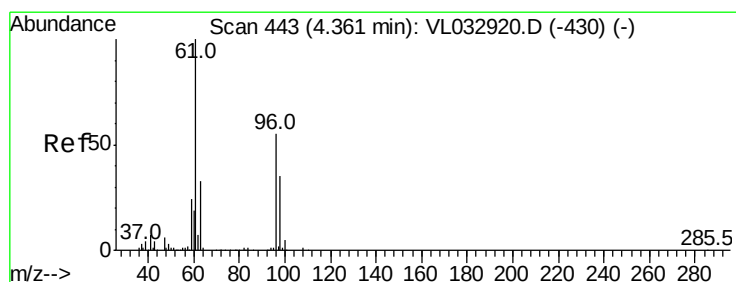
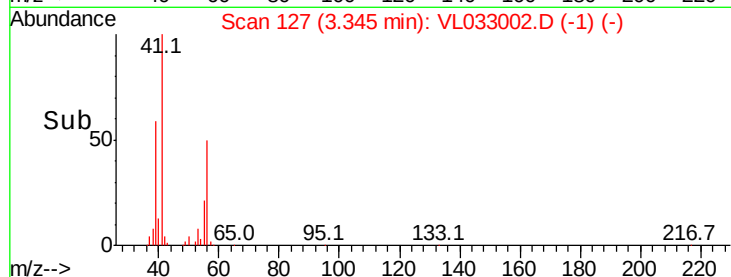
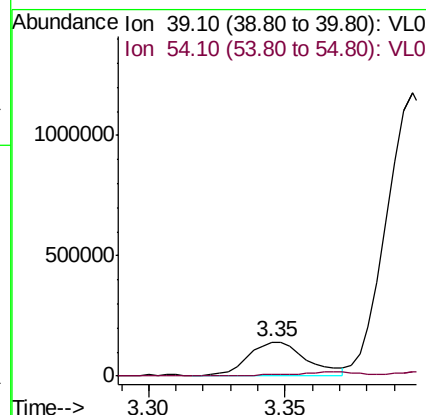
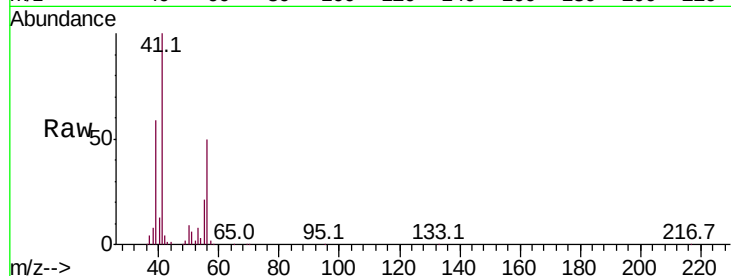




#16
 1,3-Butadiene
 Concen: 5.250 ppbv
 RT: 3.35 min Scan# 127
 Delta R.T. -0.02 min
 Lab File: VL033002.D
 Acq: 17 Dec 2018 19:15

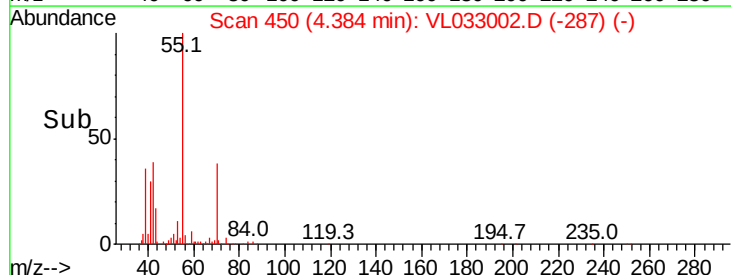
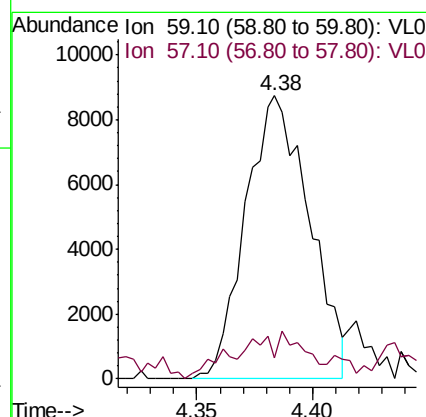
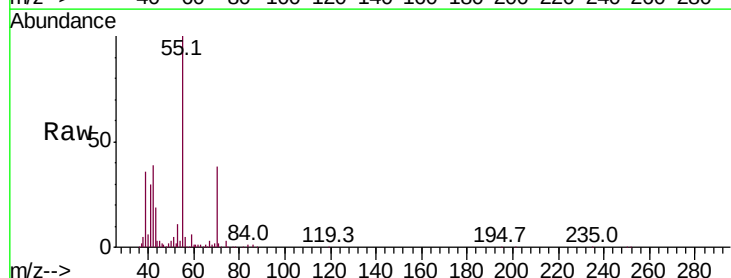
Instrument :
 MSVOA_L
 ClientSampleId :

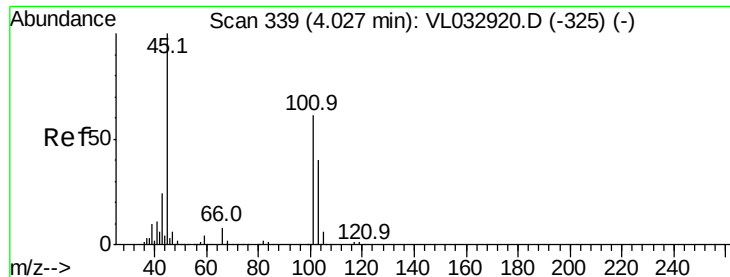
Tot Ion: 39 Resp: 205824
 Ion Ratio Lower Upper
 39 100
 54 15.4 72.7 109.1#



#17
 tert-Butyl alcohol
 Concen: 0.660 ppbv
 RT: 4.38 min Scan# 450
 Delta R.T. 0.02 min
 Lab File: VL033002.D
 Acq: 17 Dec 2018 19:15

Tgt Ion: 59 Resp: 16599
 Ion Ratio Lower Upper
 59 100
 57 0.0 0.6 1.0#





#19

Isopropyl Alcohol

Concen: 6.232 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

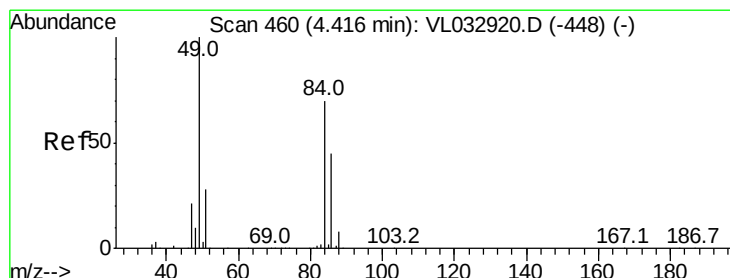
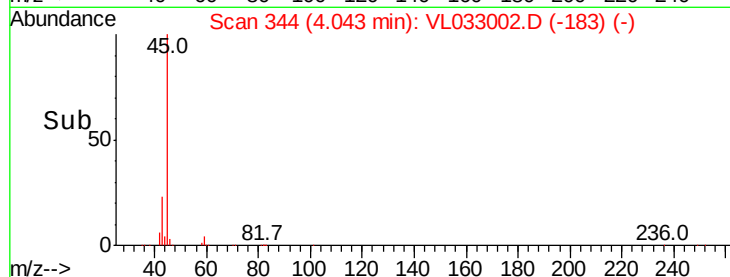
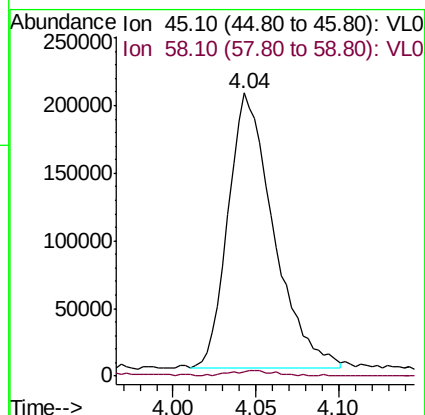
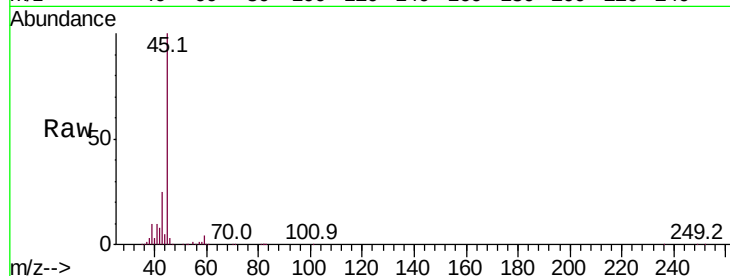
ClientSampleId :

Tot Ion: 45 Resp: 386713

Ion Ratio Lower Upper

45 100

58 152.8 1.4 2.2#



#20

Methylene Chloride

Concen: 7.880 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Tgt Ion: 84 Resp: 380576

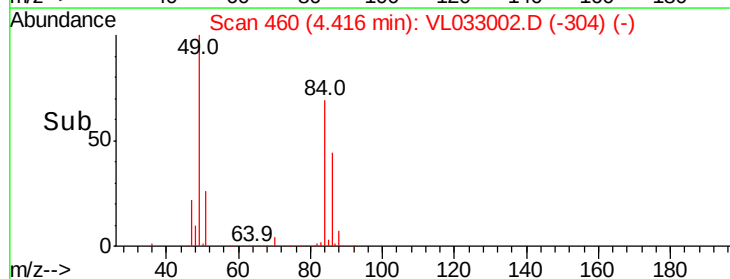
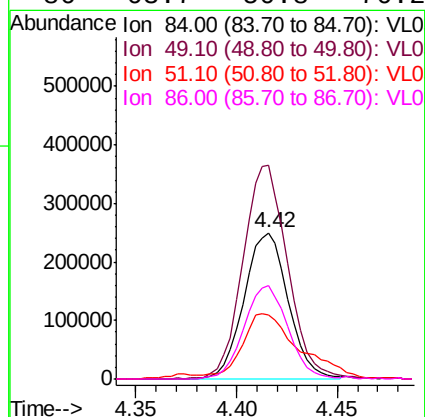
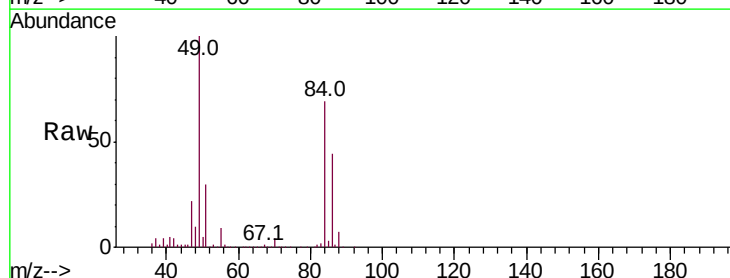
Ion Ratio Lower Upper

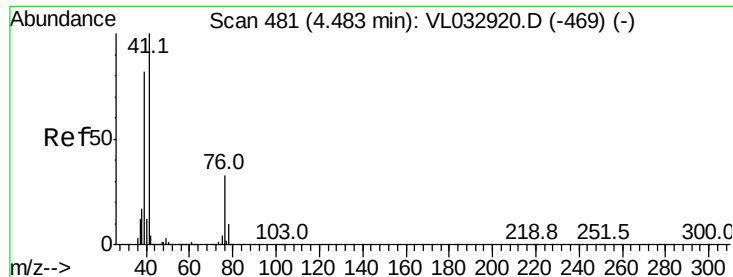
84 100

49 145.6 113.8 170.8

51 41.1 31.8 47.8

86 63.7 50.8 76.2





#21

Allvl Chloride

Concen: 3.478 ppbv

RT: 4.44 min Scan# 467

Delta R.T. -0.04 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

ClientSampleId :

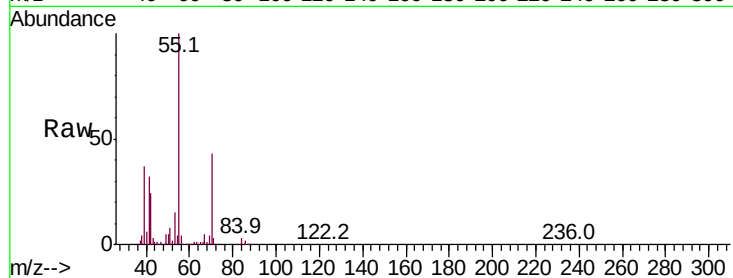
Tot Ion: 41 Resp: 280100

Ion Ratio Lower Upper

41 100

76 0.0 25.2 37.8#

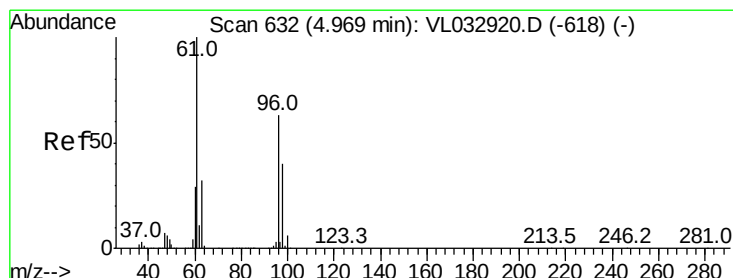
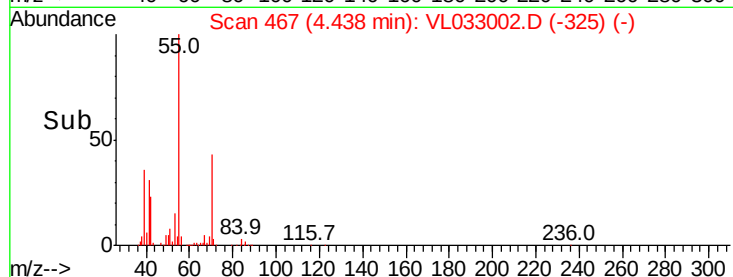
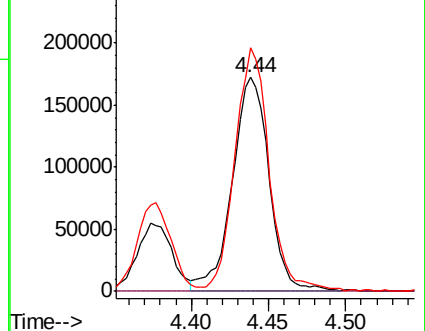
39 107.2 65.2 97.8#



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: 2.486 ppbv

RT: 4.97 min Scan# 632

Delta R.T. 0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

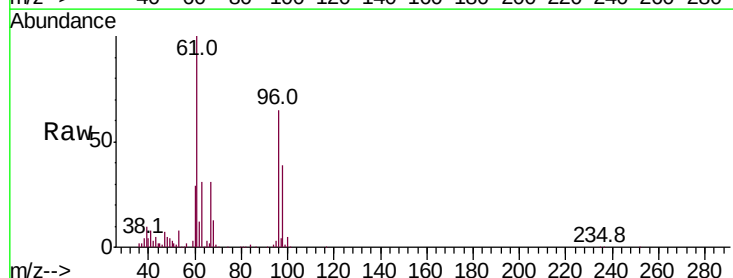
Tgt Ion: 96 Resp: 149277

Ion Ratio Lower Upper

96 100

61 154.0 127.1 190.7

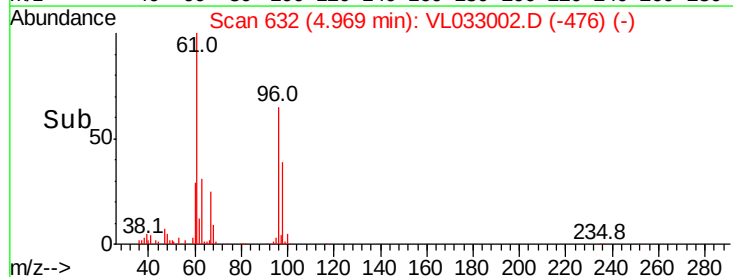
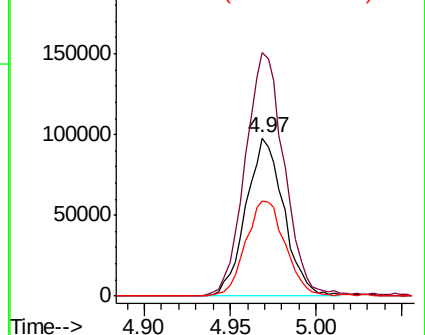
98 59.8 51.3 76.9

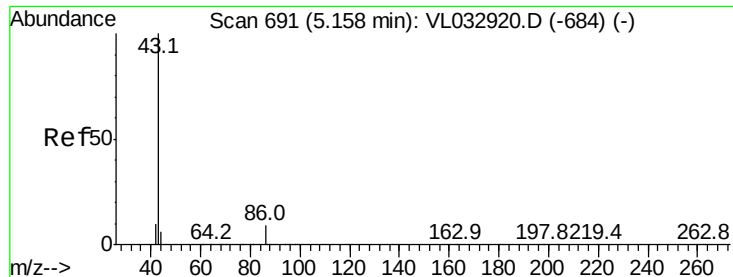


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 5.937 ppbv

RT: 5.14 min Scan# 686

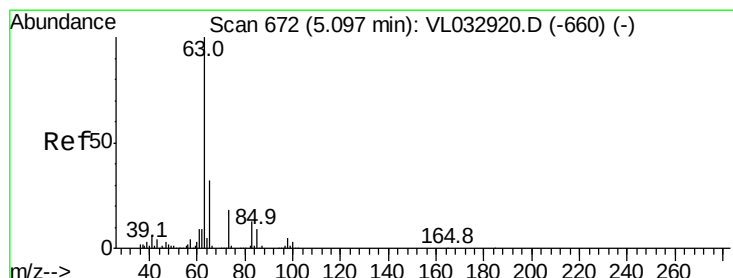
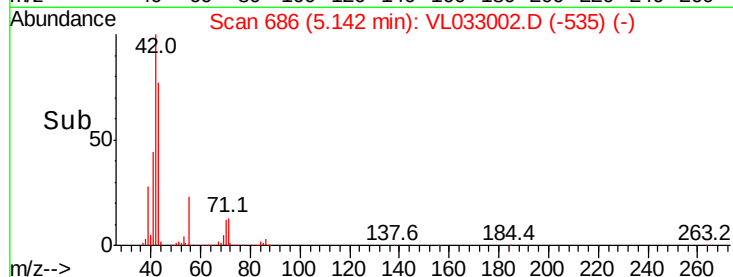
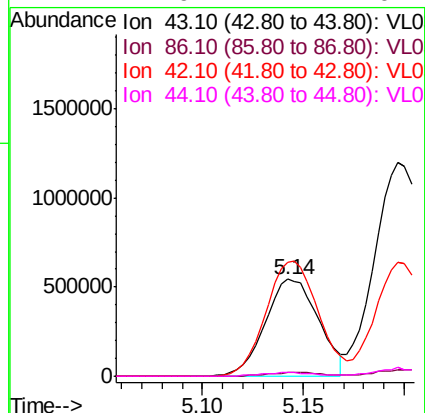
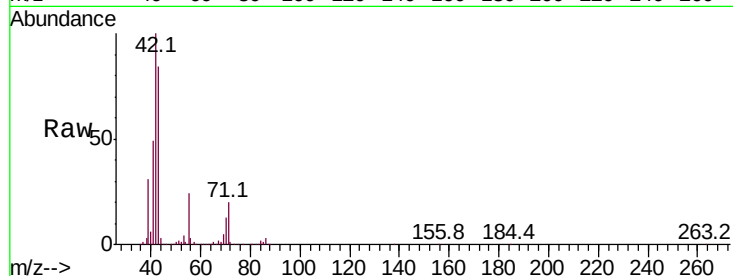
Delta R.T. -0.02 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	993299
Ion	Ratio	Lower	Upper
43	100		
86	4.0	6.6	9.8#
42	118.5	8.3	12.5#
44	2.9	4.2	6.4#



#24

1,1-Dichloroethane

Concen: 0.040 ppbv

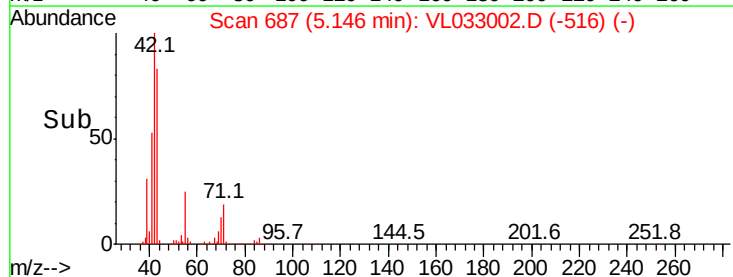
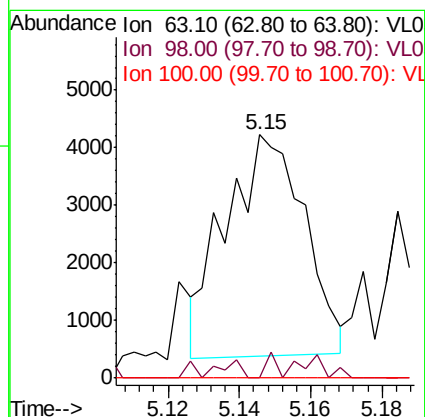
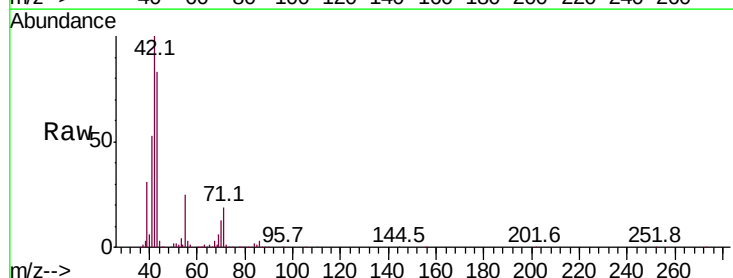
RT: 5.15 min Scan# 687

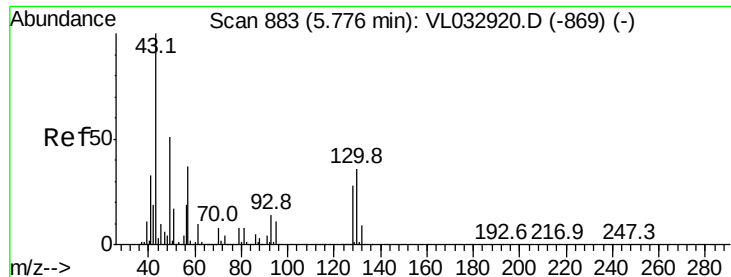
Delta R.T. 0.05 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Tgt Ion:	63	Resp:	5845
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.5	7.5#
100	0.0	1.4	4.2#

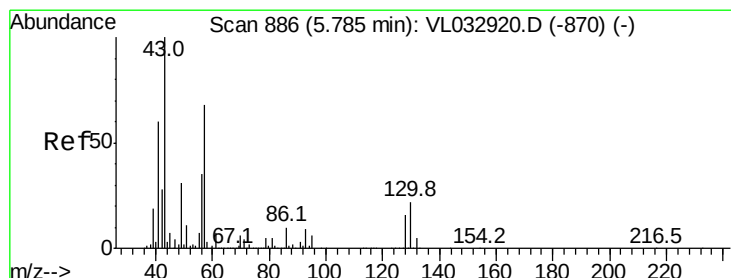
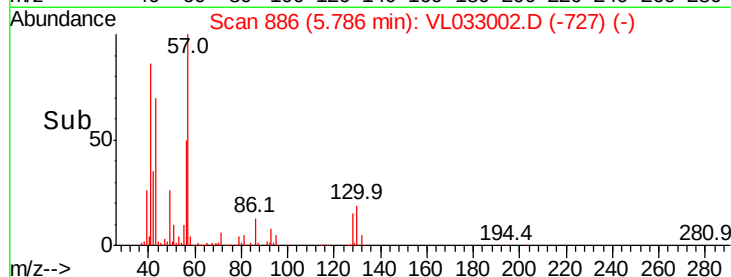
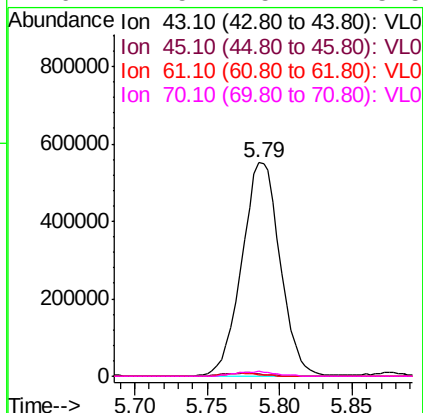
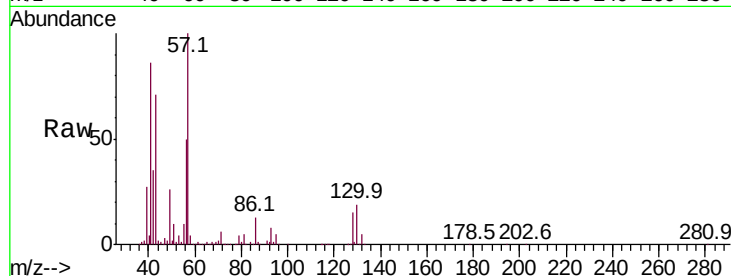




#25
Ethyl Acetate
Concen: 4.331 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL033002.D
Acq: 17 Dec 2018 19:15

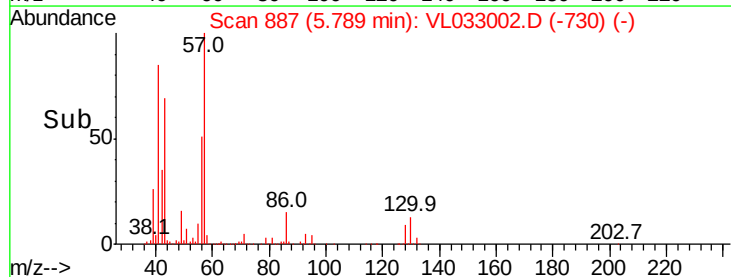
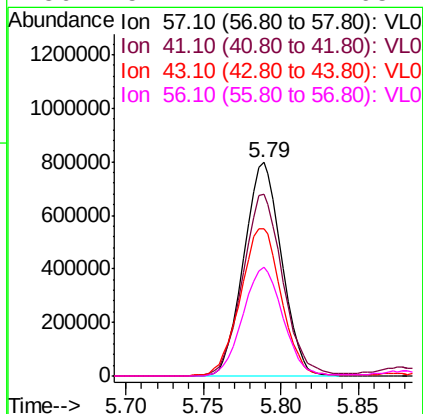
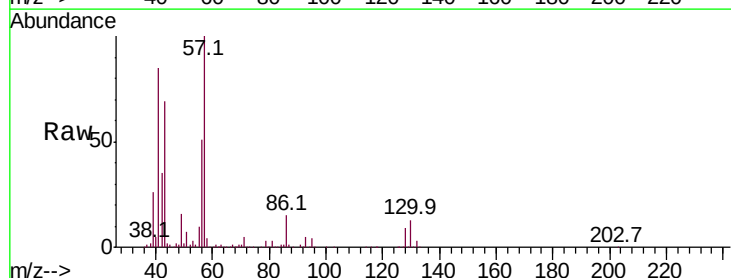
Instrument :
MSVOA_L
ClientSampleId :

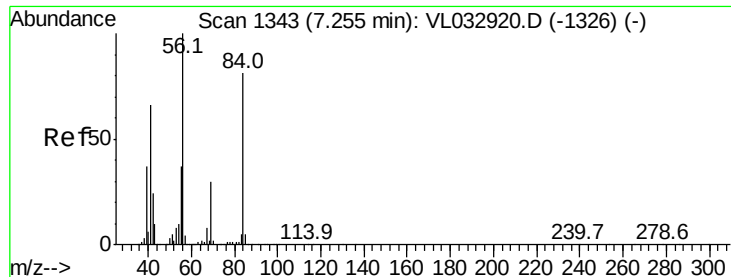
Tot Ion: 43 Resp: 1011020
Ion Ratio Lower Upper
43 100
45 1.9 7.8 11.6#
61 1.5 7.4 11.2#
70 2.5 5.7 8.5#



#26
Hexane
Concen: 12.582 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL033002.D
Acq: 17 Dec 2018 19:15

Tgt Ion: 57 Resp: 1355923
Ion Ratio Lower Upper
57 100
41 90.8 72.2 108.2
43 74.9 171.9 257.9#
56 54.1 42.2 63.2

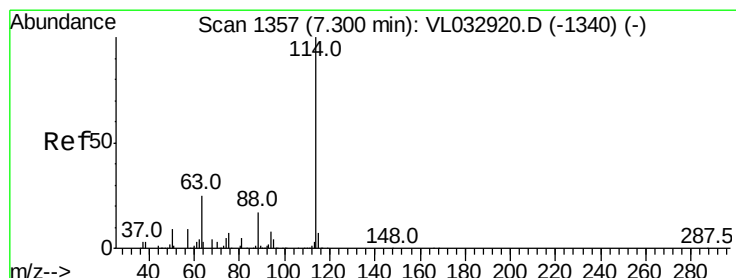
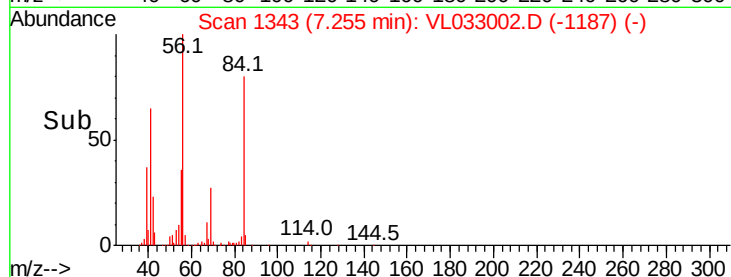
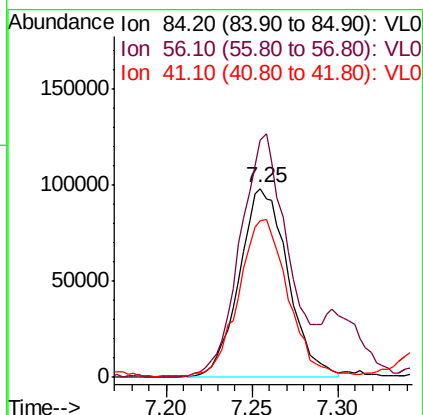
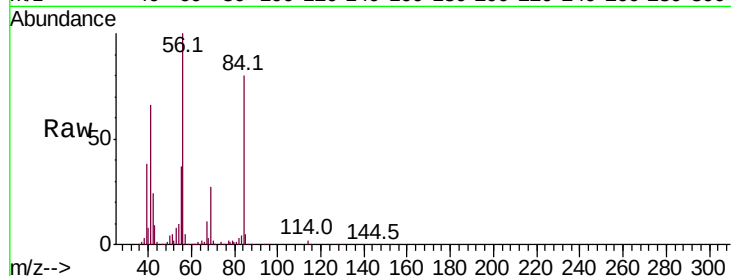




#30
Cyclohexane
Concen: 2.143 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL033002.D
Acq: 17 Dec 2018 19:15

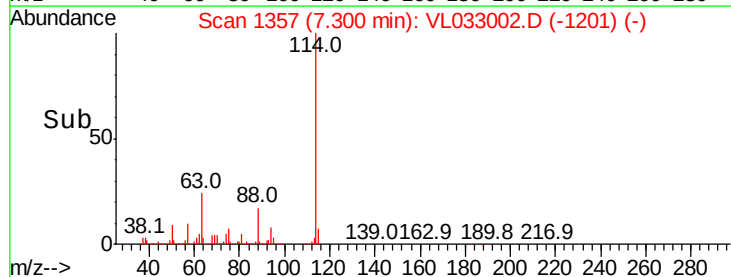
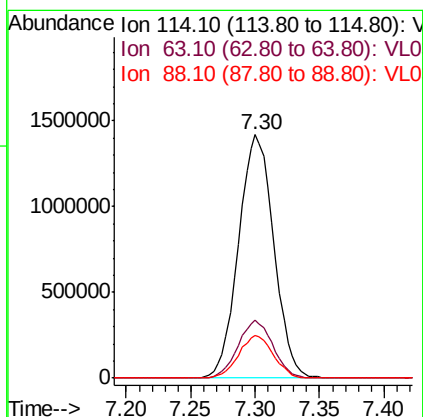
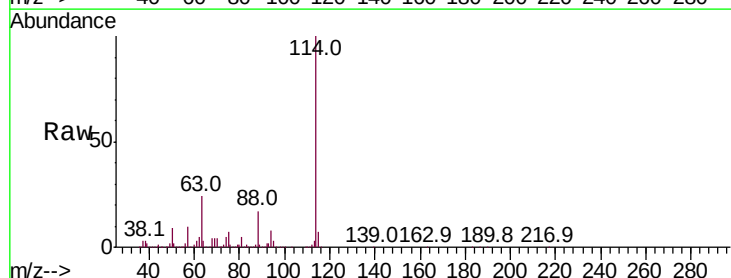
Instrument :
MSVOA_L
ClientSampleId :

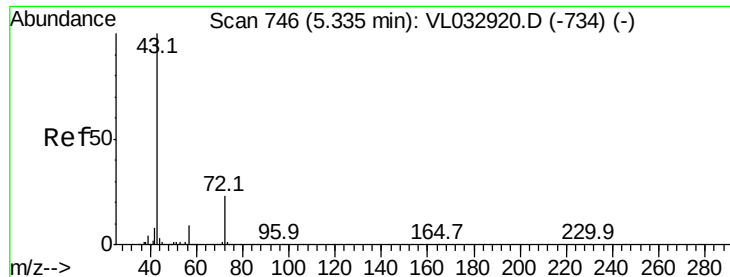
Tot Ion: 84 Resp: 191446
Ion Ratio Lower Upper
84 100
56 156.3 102.5 153.7#
41 85.0 64.1 96.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL033002.D
Acq: 17 Dec 2018 19:15

Tgt Ion: 114 Resp: 2703648
Ion Ratio Lower Upper
114 100
63 23.5 20.1 30.1
88 17.3 14.2 21.4





#34

2-Butanone

Concen: 1.811 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

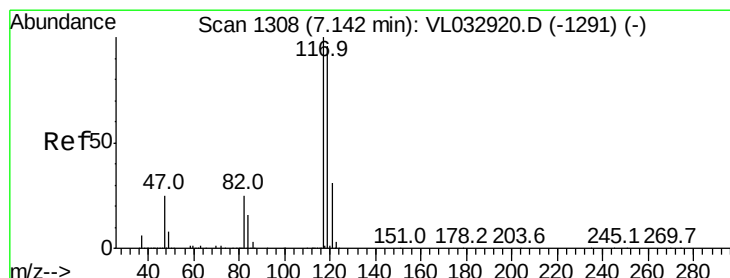
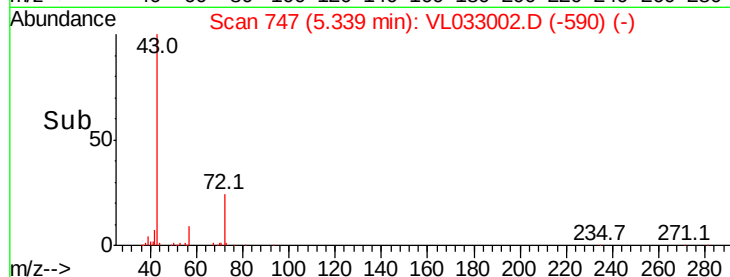
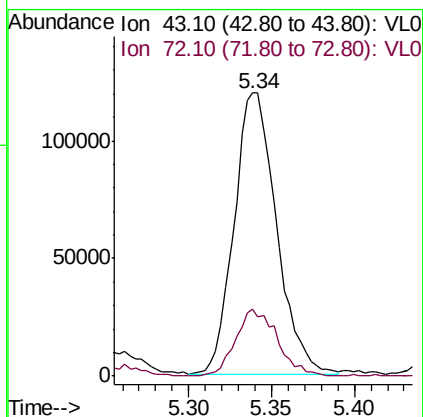
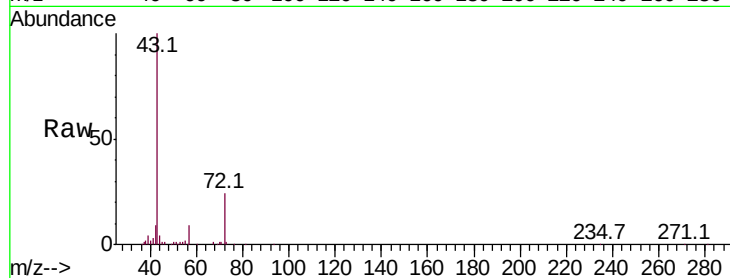
ClientSampleId :

Tot Ion: 43 Resp: 213218

Ion Ratio Lower Upper

43 100

72 23.1 18.8 28.2



#35

Carbon Tetrachloride

Concen: 0.064 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.01 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

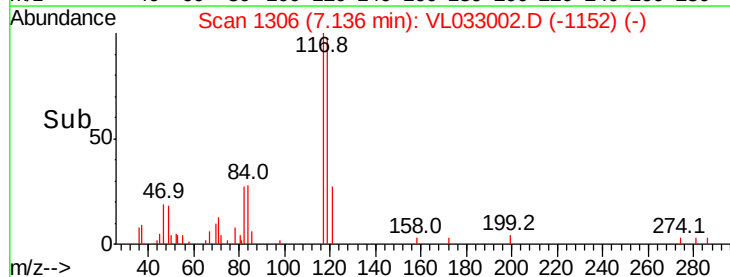
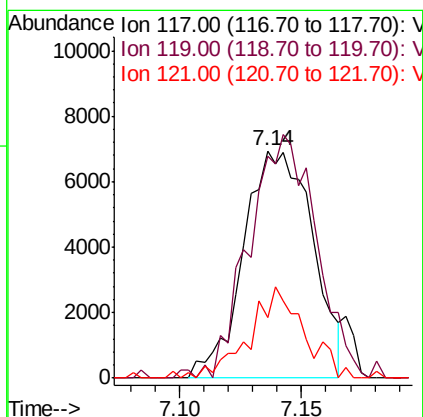
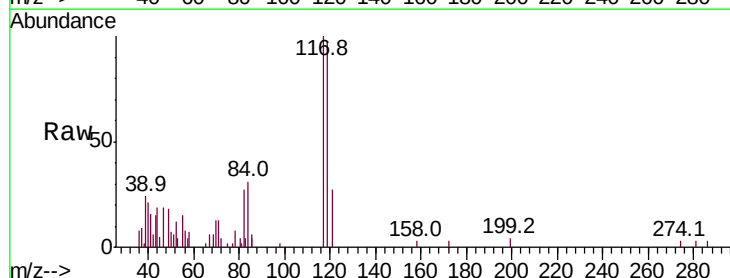
Tgt Ion: 117 Resp: 13658

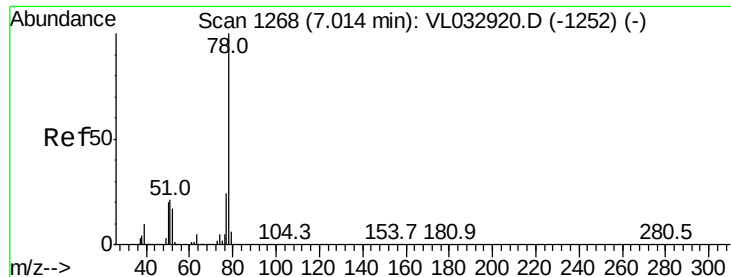
Ion Ratio Lower Upper

117 100

119 93.8 76.5 114.7

121 26.5 24.5 36.7





#36

Benzene

Concen: 6.261 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

ClientSampleId :

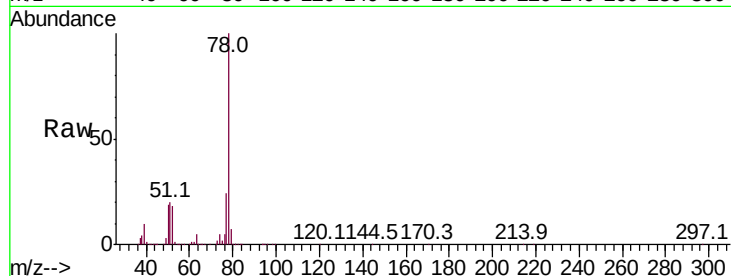
Tot Ion: 78 Resp: 1245136

Ion Ratio Lower Upper

78 100

77 23.6 18.9 28.3

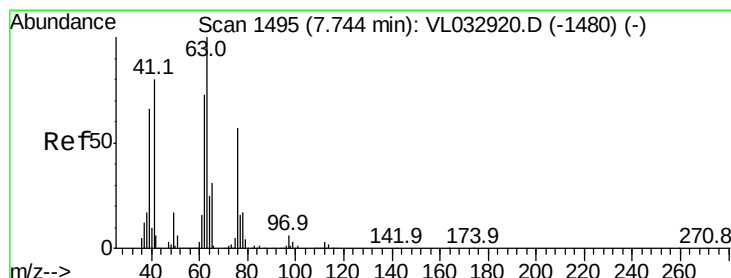
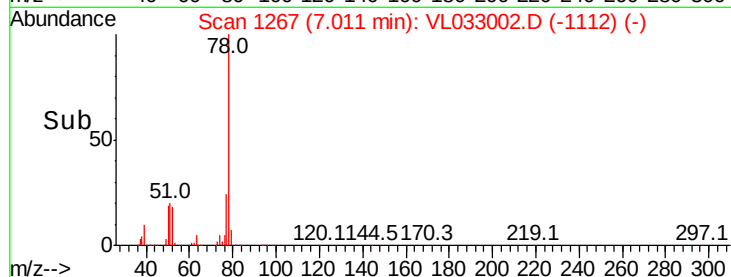
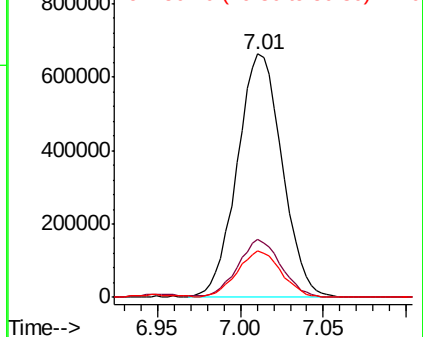
50 18.8 16.1 24.1



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



#39

1,2-Dichloropropane

Concen: 8.310 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

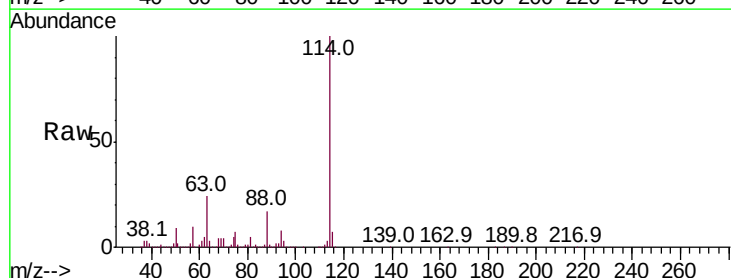
Tgt Ion: 63 Resp: 626711

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

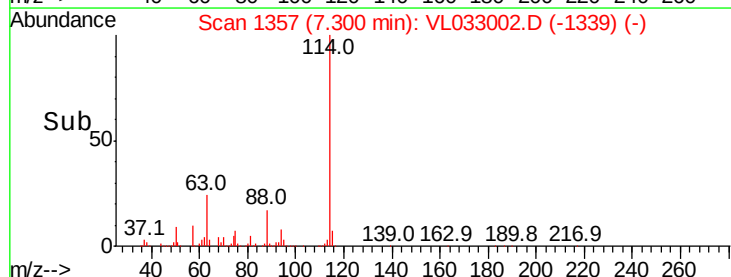
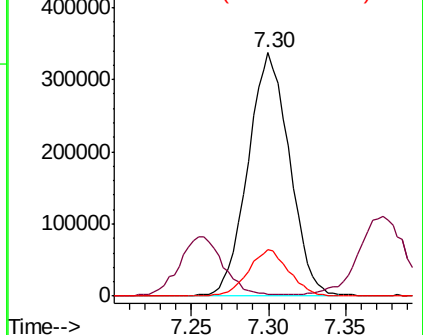
62 18.9 58.8 88.2#

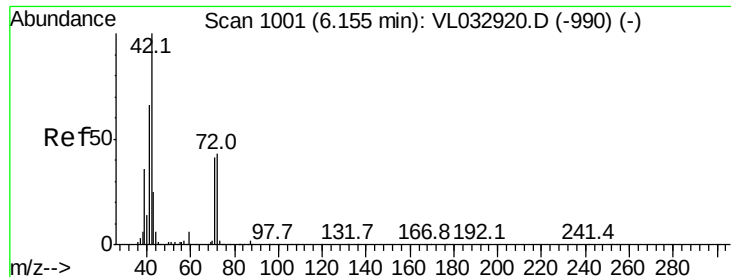


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#41

Tetrahydrofuran

Concen: 0.096 ppbv

RT: 6.22 min Scan# 1021

Delta R.T. 0.06 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

ClientSampled :

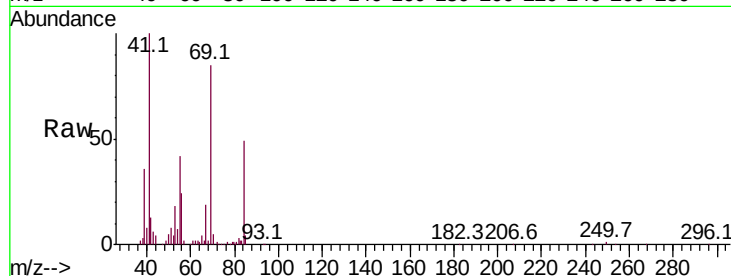
Tot Ion: 42 Resp: 7025

Ion Ratio Lower Upper

42 100

72 81.3 32.9 49.3#

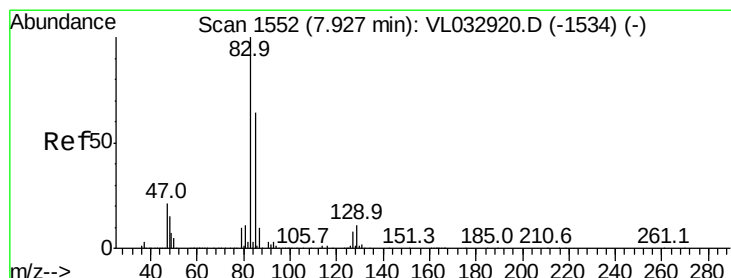
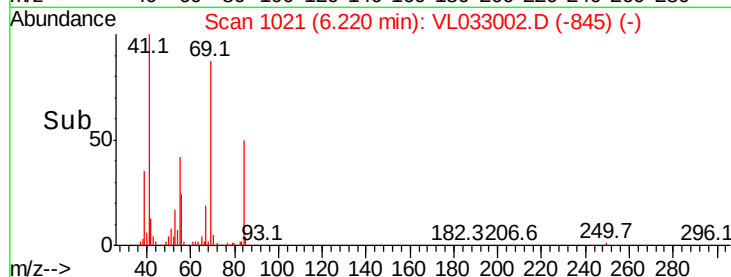
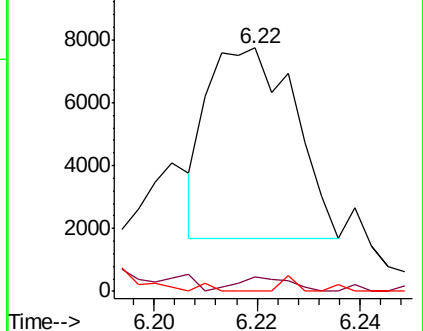
71 69.9 32.0 48.0#



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.030 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

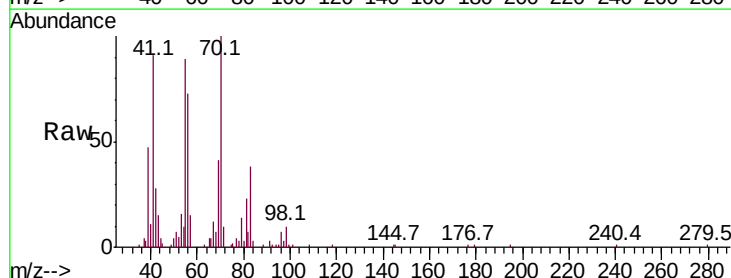
Tgt Ion: 83 Resp: 5631

Ion Ratio Lower Upper

83 100

85 0.0 50.9 76.3#

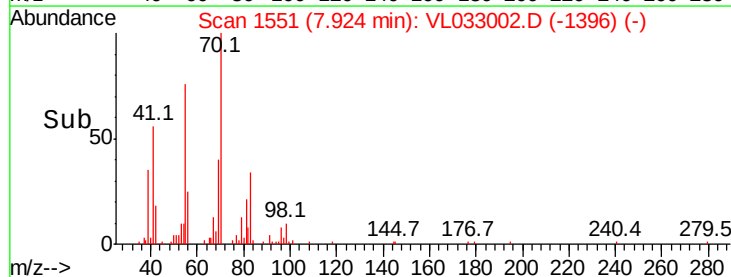
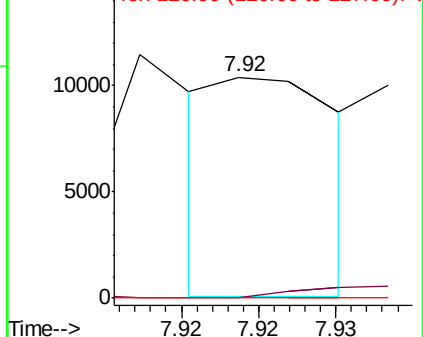
127 0.0 6.7 10.1#

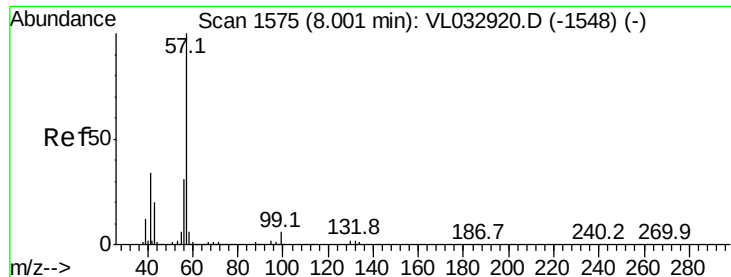


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0





#44

2,2,4-Trimethylpentane

Concen: 8.206 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

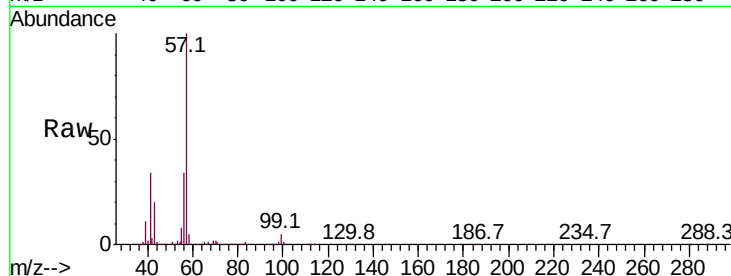
Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 57 Resp: 2770131

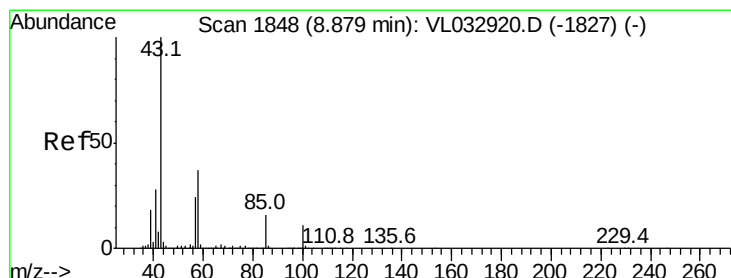
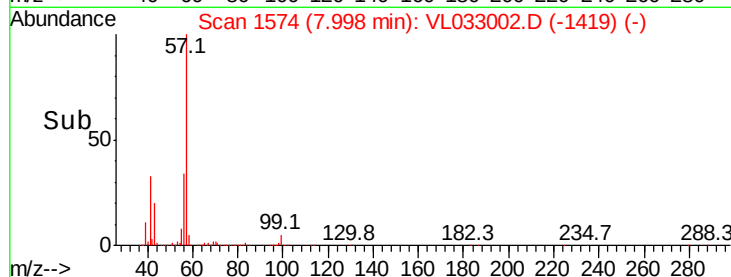
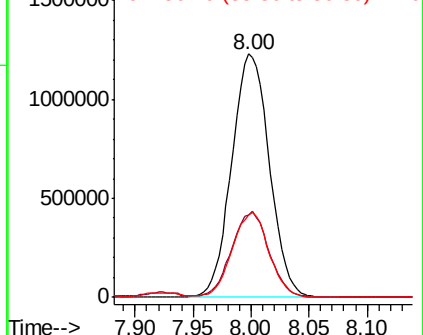
Ion	Ratio	Lower	Upper
57	100		
41	34.9	27.0	40.4
56	34.3	24.6	37.0



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.112 ppbv

RT: 8.89 min Scan# 1850

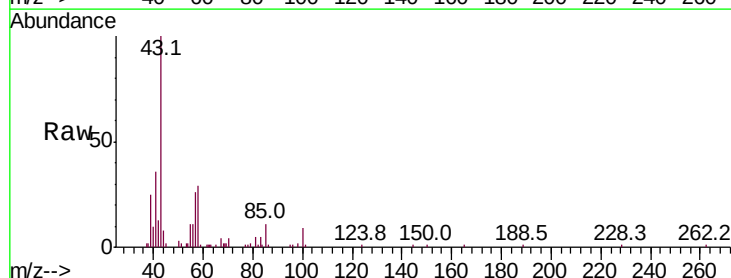
Delta R.T. 0.01 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

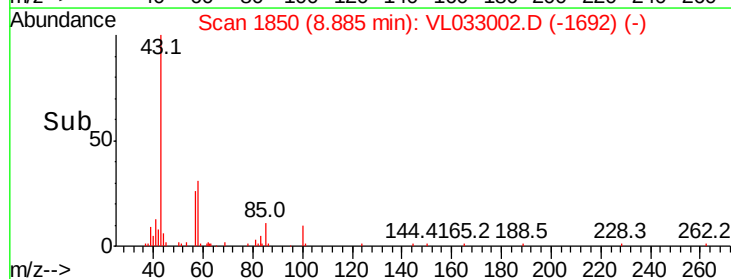
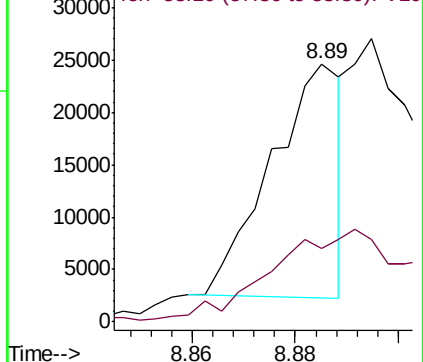
Tgt Ion: 43 Resp: 21126

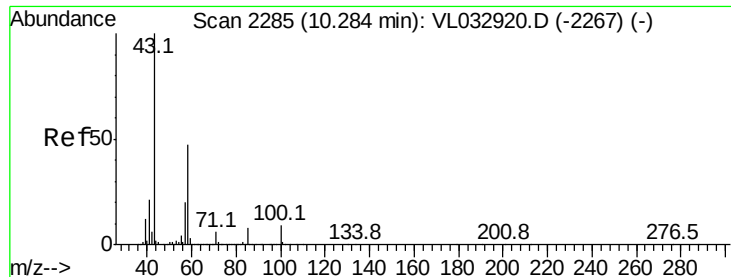
Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.0	43.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

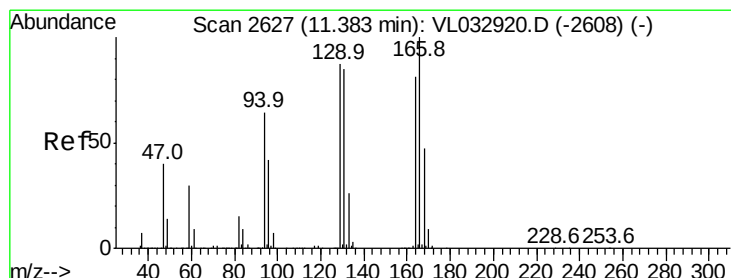
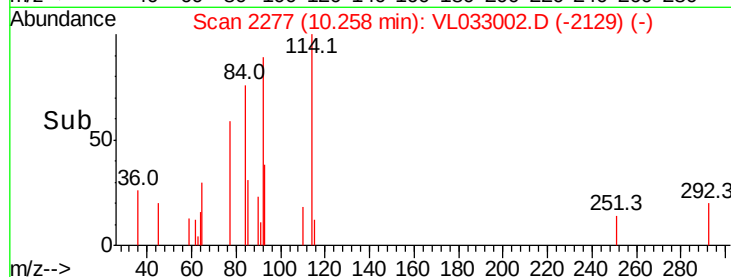
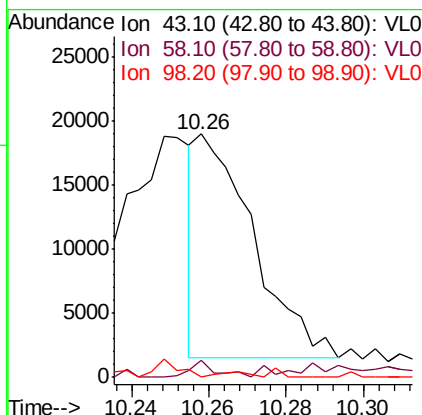
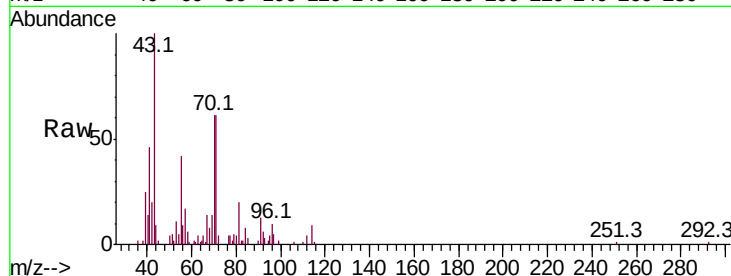




#51
 2-Hexanone
 Concen: 0.140 ppbv
 RT: 10.26 min Scan# 2277
 Delta R.T. -0.03 min
 Lab File: VL033002.D
 Acq: 17 Dec 2018 19:15

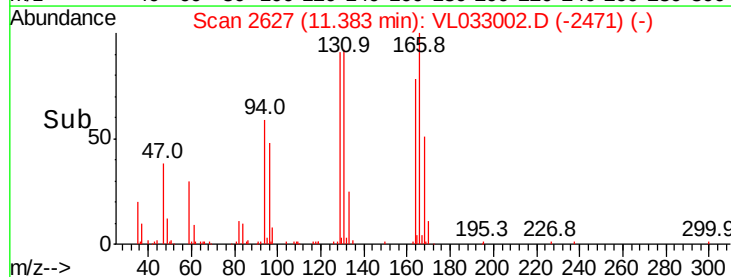
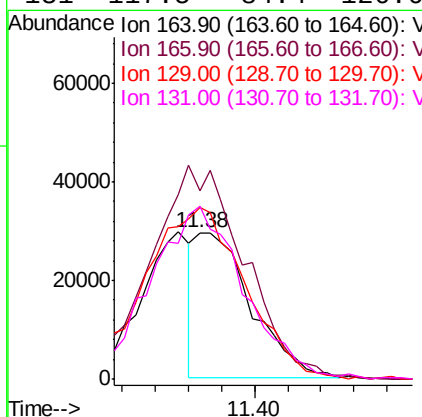
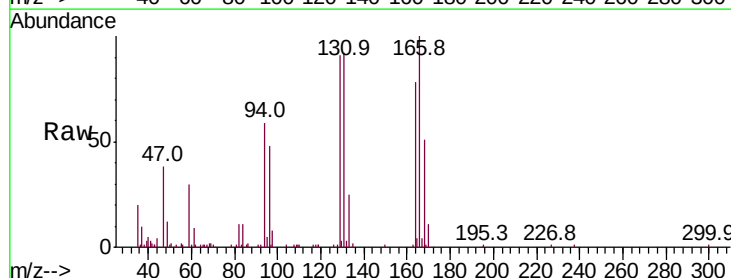
Instrument :
 MSVOA_L
 ClientSampleId :

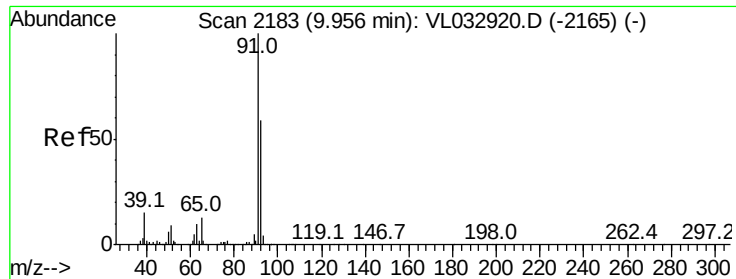
Tot Ion: 43 Resp: 17879
 Ion Ratio Lower Upper
 43 100
 58 5.6 38.1 57.1#
 98 0.0 0.4 0.6#



#52
 Tetrachloroethene
 Concen: 0.467 ppbv
 RT: 11.38 min Scan# 2627
 Delta R.T. 0.00 min
 Lab File: VL033002.D
 Acq: 17 Dec 2018 19:15

Tgt Ion: 164 Resp: 33790
 Ion Ratio Lower Upper
 164 100
 166 127.1 98.8 148.2
 129 116.4 85.5 128.3
 131 117.5 84.4 126.6





#53

Toluene

Concen: 44.107 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

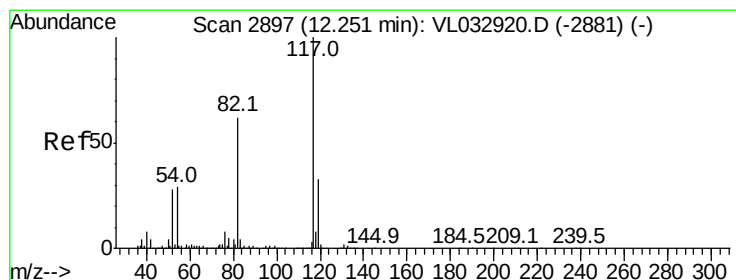
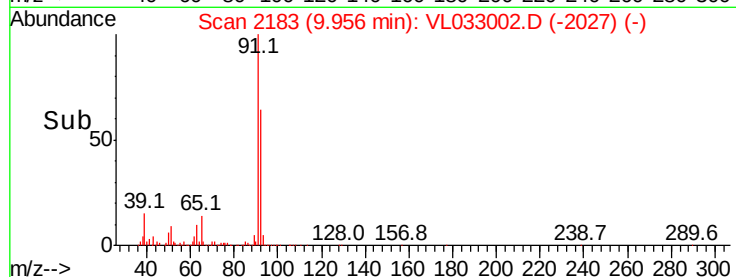
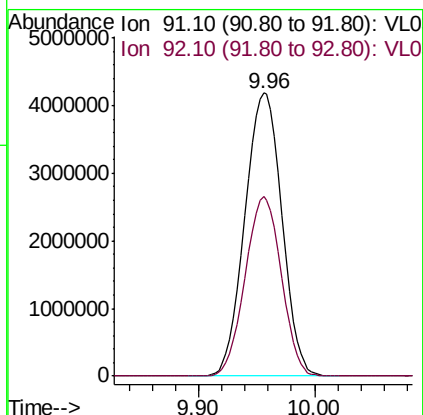
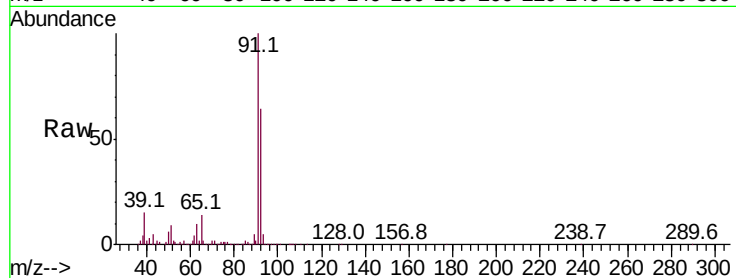
ClientSampleId :

Tot Ion: 91 Resp: 9302328

Ion Ratio Lower Upper

91 100

92 62.0 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

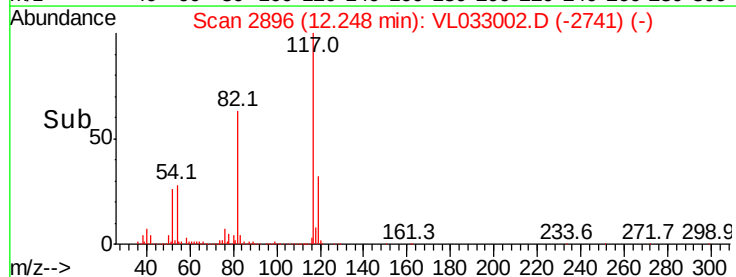
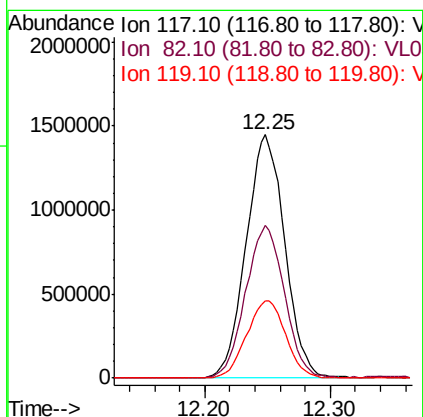
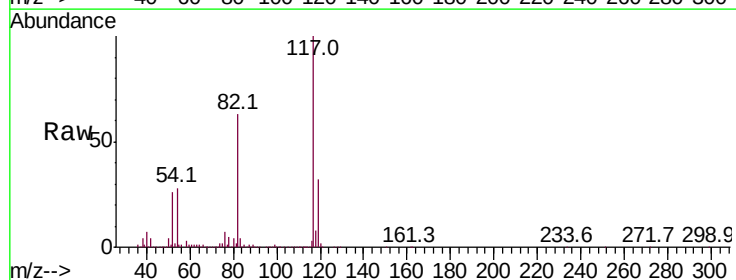
Tgt Ion: 117 Resp: 3096312

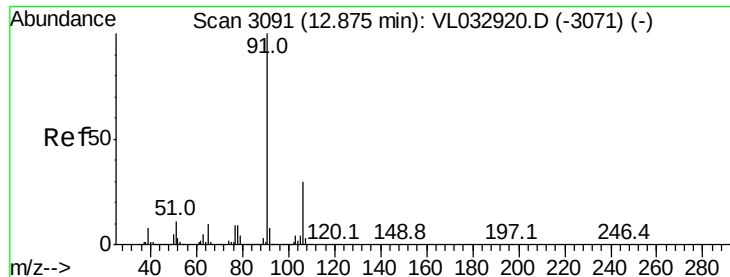
Ion Ratio Lower Upper

117 100

82 63.1 47.8 71.8

119 32.4 43.1 64.7#





#58

Ethyl Benzene

Concen: 3.962 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

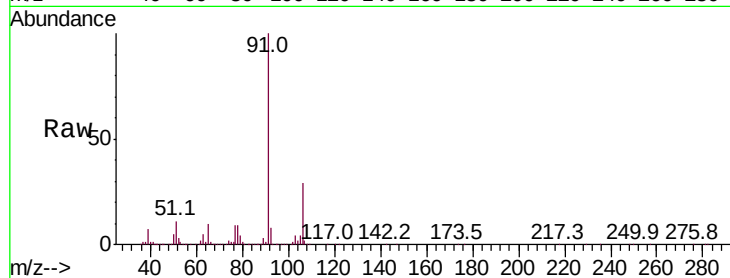
ClientSampleId :

Tot Ion: 91 Resp: 1308629

Ion Ratio Lower Upper

91 100

106 29.0 23.9 35.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.87

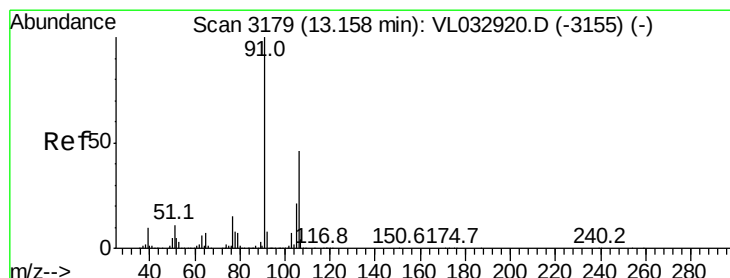
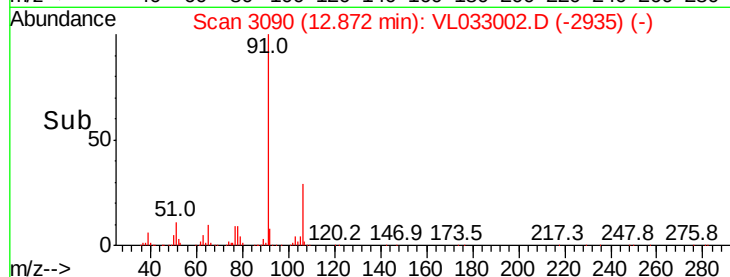
600000

400000

200000

0

Time-->



#59

m/p-Xylene

Concen: 14.340 ppbv

RT: 13.13 min Scan# 3169

Delta R.T. -0.03 min

Lab File: VL033002.D

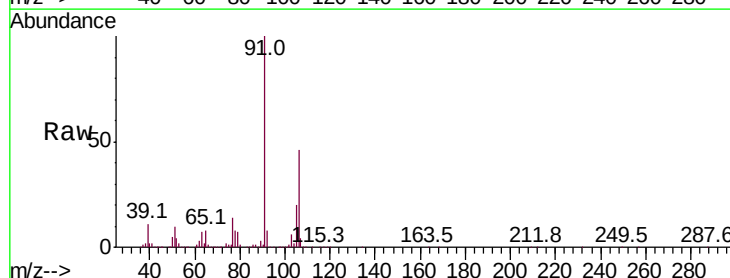
Acq: 17 Dec 2018 19:15

Tgt Ion: 91 Resp: 4294302

Ion Ratio Lower Upper

91 100

106 47.0 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.13

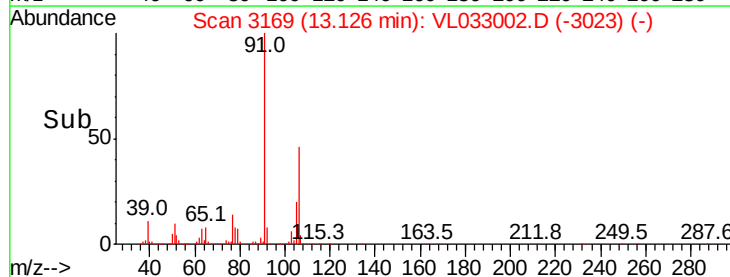
1500000

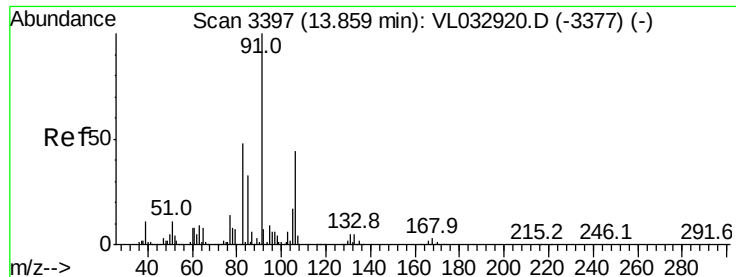
1000000

500000

0

Time-->





#60

o-Xylene

Concen: 4.479 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

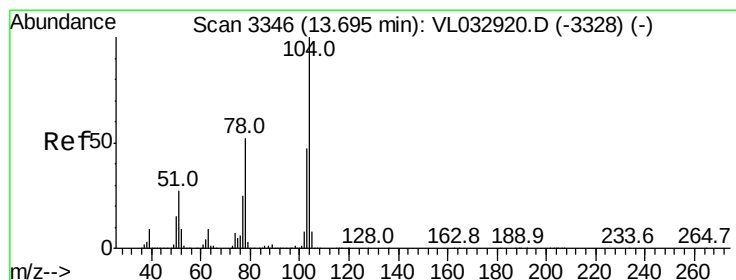
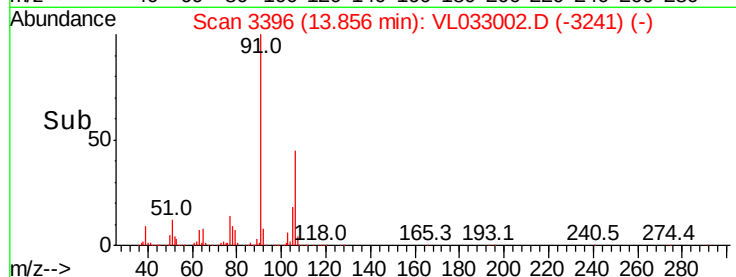
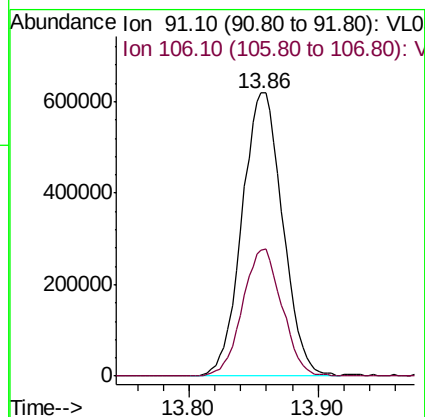
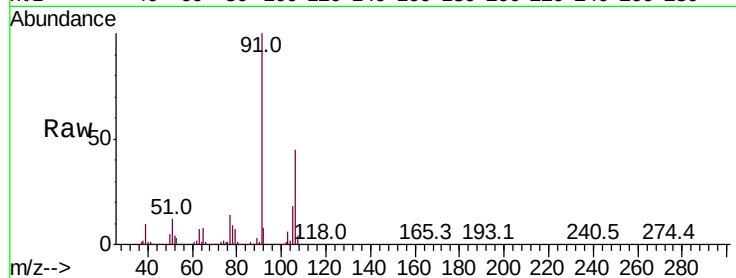
ClientSampleId :

Tot Ion: 91 Resp: 1354506

Ion Ratio Lower Upper

91 100

106 43.7 21.9 65.8



#61

Styrene

Concen: 0.195 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

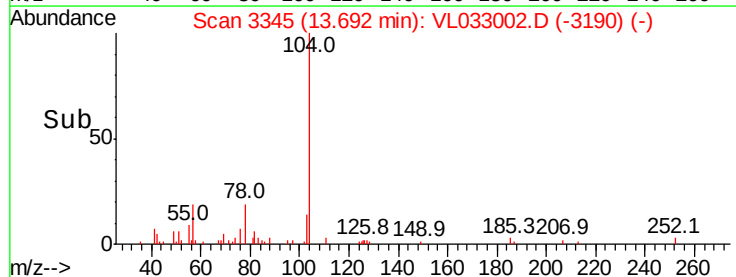
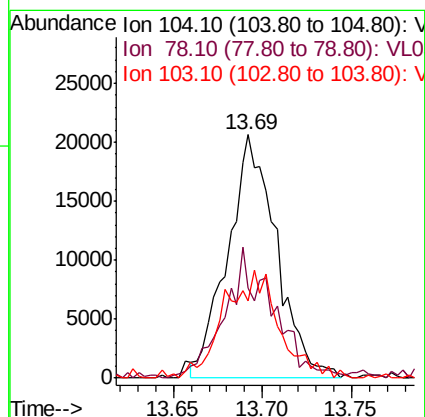
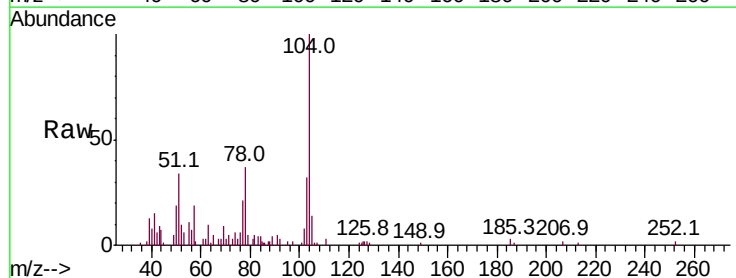
Tgt Ion: 104 Resp: 39161

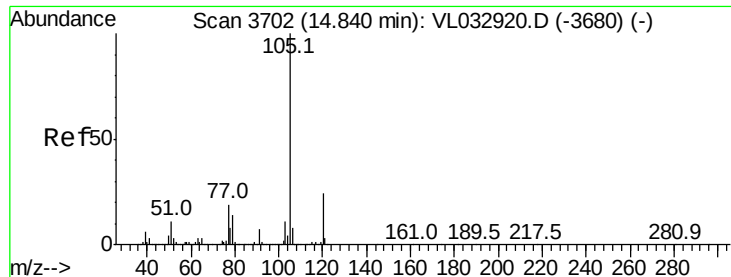
Ion Ratio Lower Upper

104 100

78 54.0 42.0 63.0

103 50.9 38.3 57.5





#62

Isopropylbenzene

Concen: 0.068 ppbv

RT: 14.83 min Scan# 3700

Delta R.T. -0.01 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

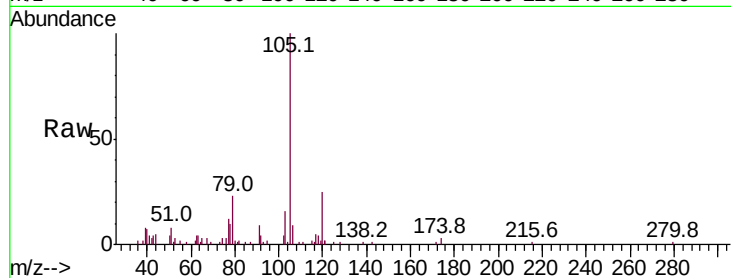
ClientSampleId :

Tot Ion:105 Resp: 28654

Ion Ratio Lower Upper

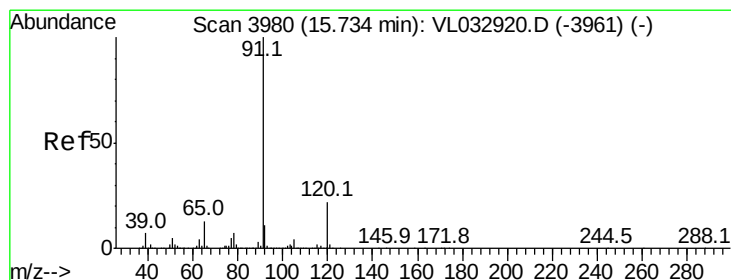
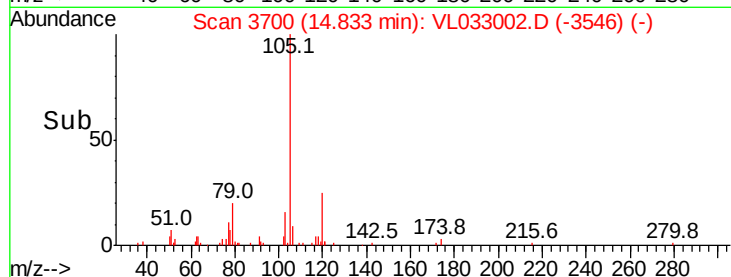
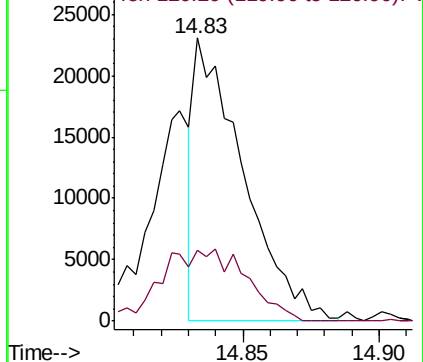
105 100

120 45.9 20.3 30.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.541 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. -0.01 min

Lab File: VL033002.D

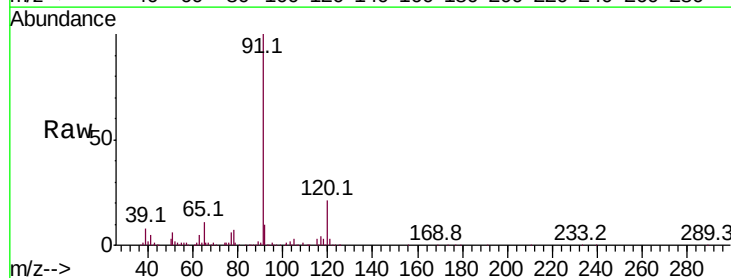
Acq: 17 Dec 2018 19:15

Tgt Ion:120 Resp: 59244

Ion Ratio Lower Upper

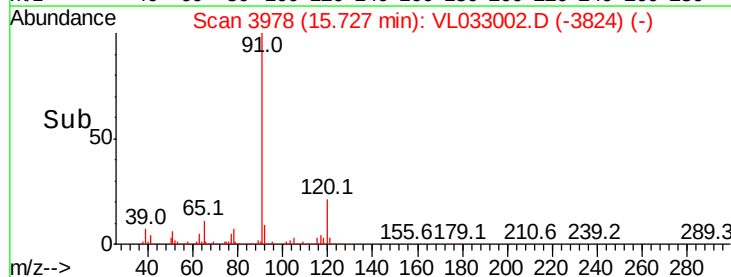
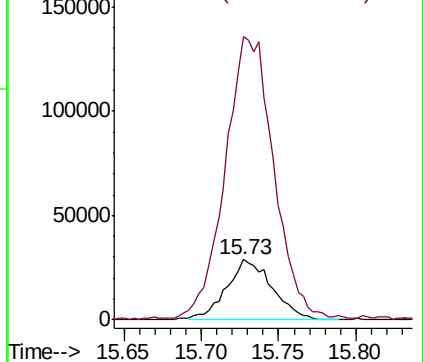
120 100

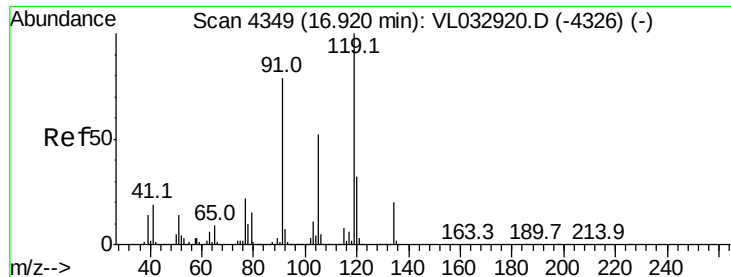
91 502.8 380.4 570.6



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V





#65

tert-Butylbenzene

Concen: 0.337 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

ClientSampled :

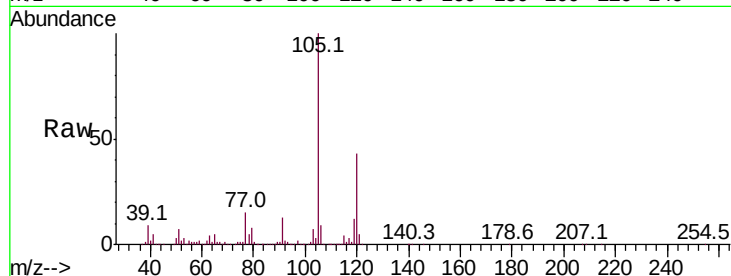
Tot Ion:119 Resp: 131991

Ion Ratio Lower Upper

119 100

91 119.6 64.5 96.7#

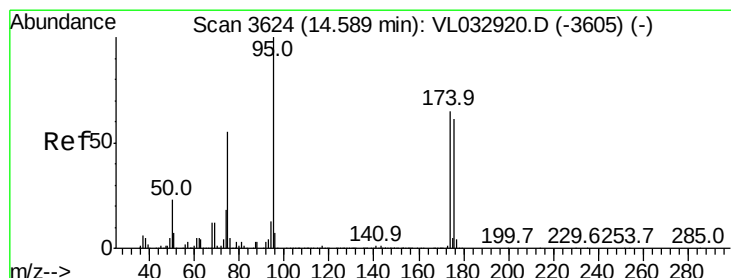
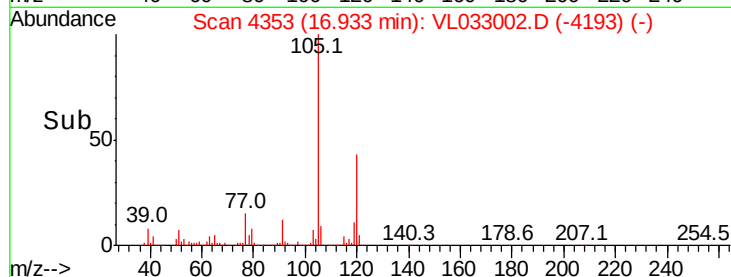
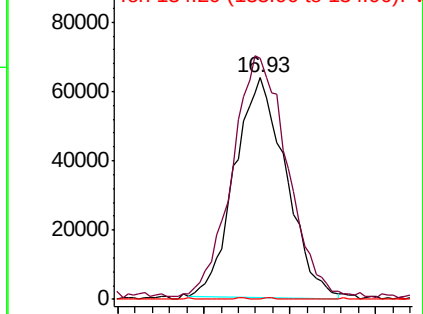
134 0.3 15.7 23.5#



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



#68

1-Bromo-4-Fluorobenzene

Concen: 9.763 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

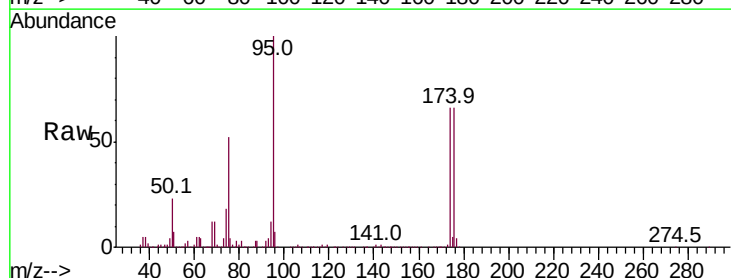
Tgt Ion: 95 Resp: 2233197

Ion Ratio Lower Upper

95 100

174 66.9 51.4 77.0

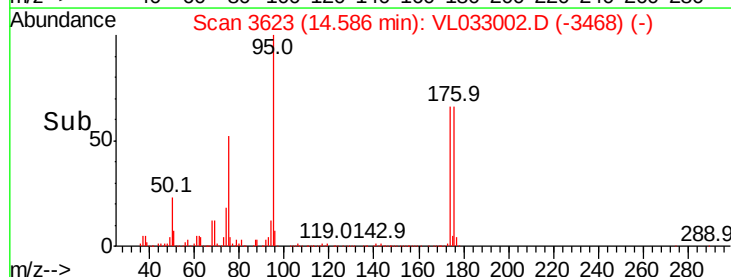
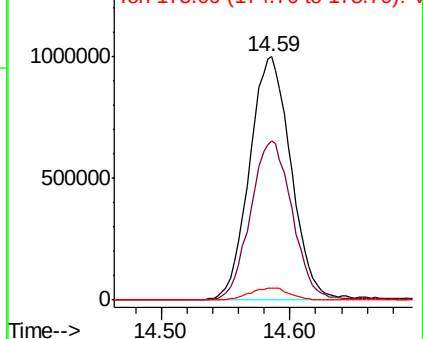
175 4.9 3.8 5.6

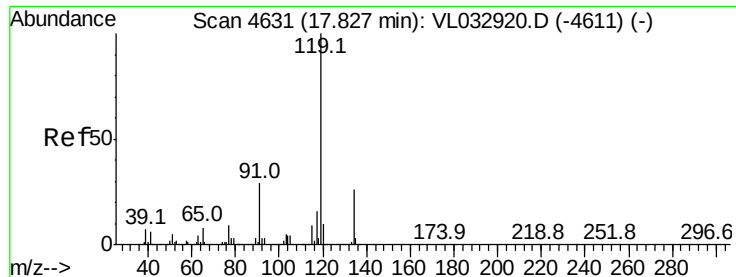


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.042 ppbv

RT: 17.83 min Scan# 4631

Delta R.T. 0.00 min

Lab File: VL033002.D

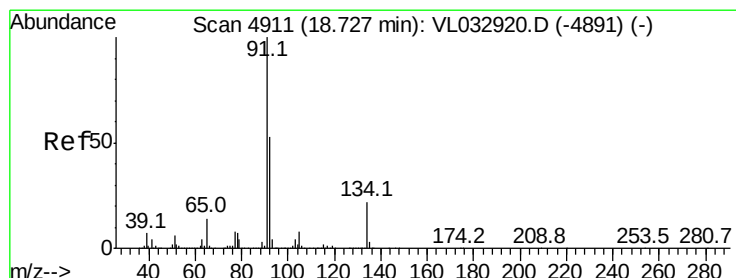
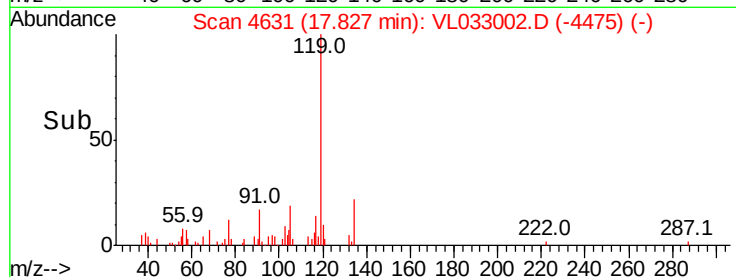
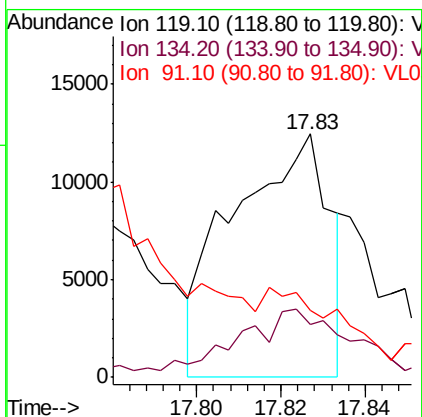
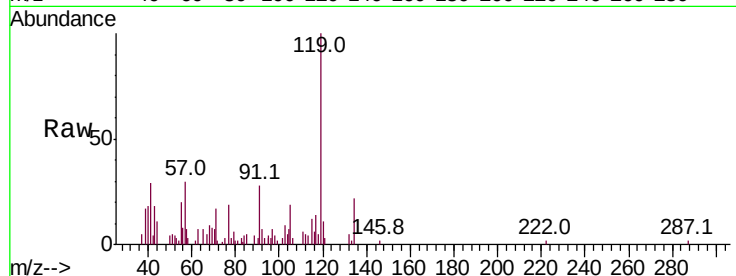
Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	119	Resp:	19647
Ion Ratio	Lower	Upper	
119	100		
134	38.9	20.2	30.2#
91	0.0	22.9	34.3#



#70

n-Butylbenzene

Concen: 0.078 ppbv

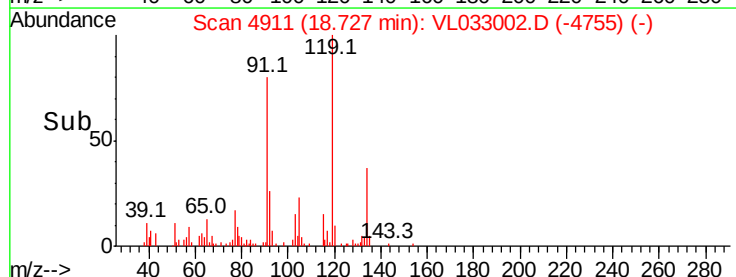
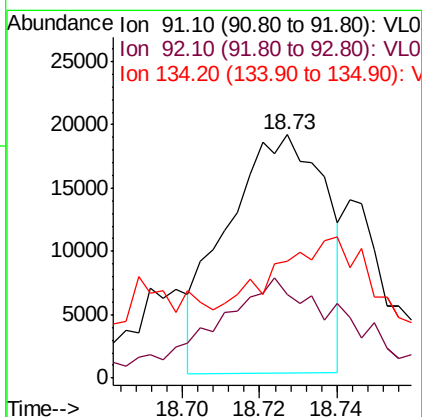
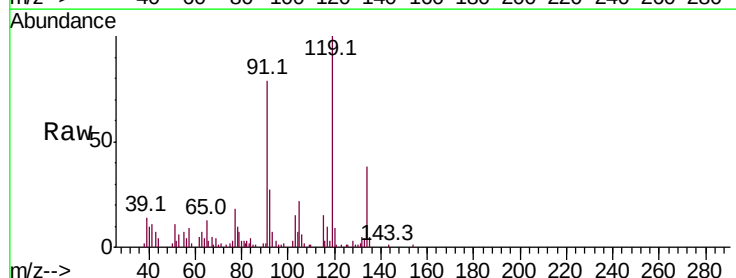
RT: 18.73 min Scan# 4911

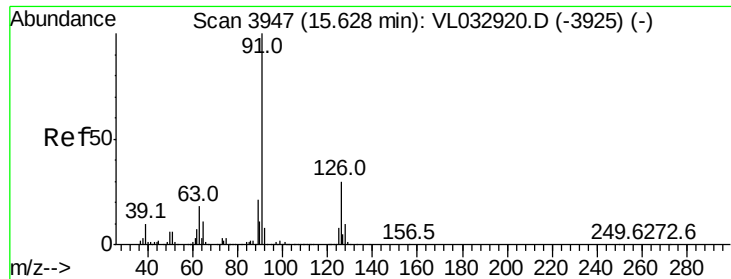
Delta R.T. 0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Tgt Ion:	91	Resp:	33463
Ion Ratio	Lower	Upper	
91	100		
92	59.1	42.7	64.1
134	0.0	18.0	27.0#





#71

2-Chlorotoluene

Concen: 0.562 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. 0.10 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

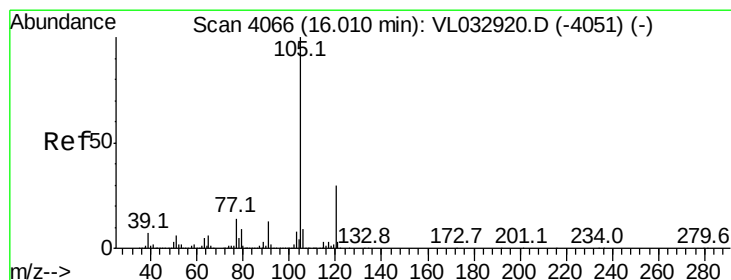
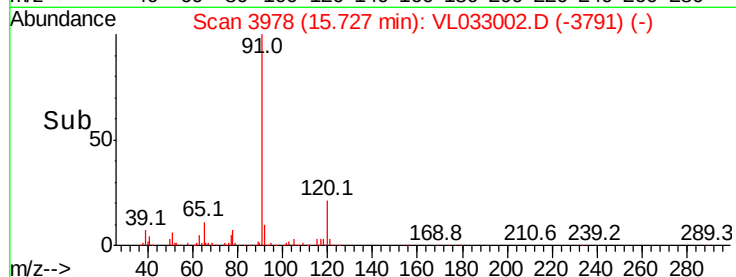
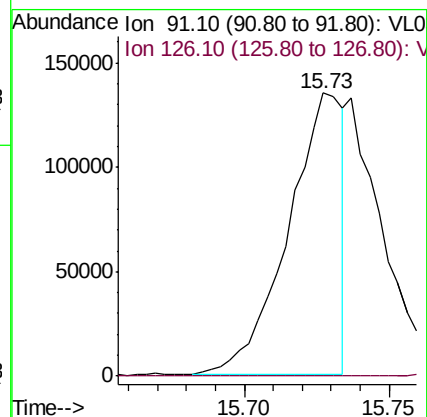
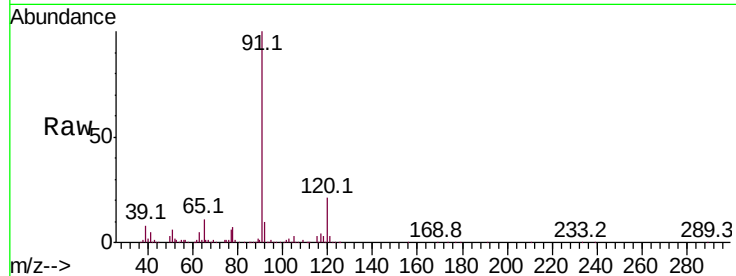
ClientSampleId :

Tot Ion: 91 Resp: 176368

Ion Ratio Lower Upper

91 100

126 0.1 12.3 49.3#



#72

4-Ethyltoluene

Concen: 1.316 ppbv

RT: 16.01 min Scan# 4066

Delta R.T. 0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Tgt Ion:105 Resp: 444304

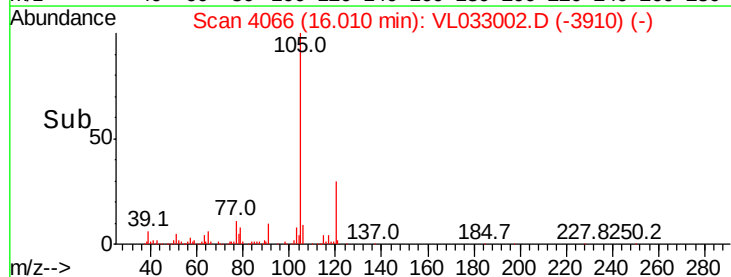
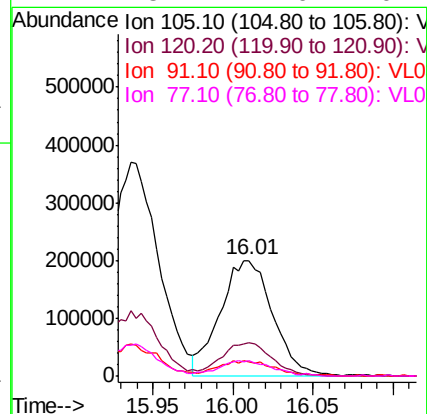
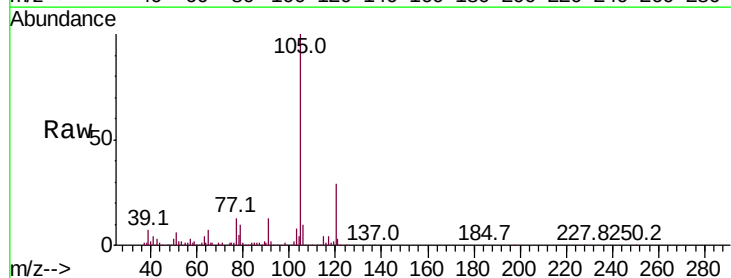
Ion Ratio Lower Upper

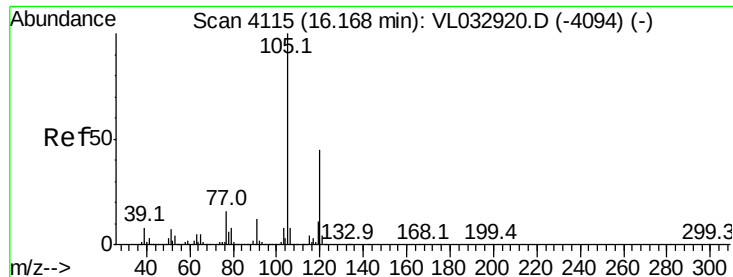
105 100

120 28.1 23.0 34.4

91 13.5 10.4 15.6

77 13.2 11.0 16.4





#73

1,3,5-Trimethylbenzene

Concen: 0.811 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

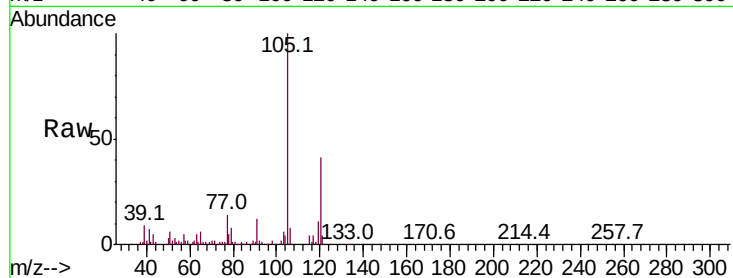
ClientSampleId :

Tot Ion:105 Resp: 267253

Ion Ratio Lower Upper

105 100

120 41.0 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

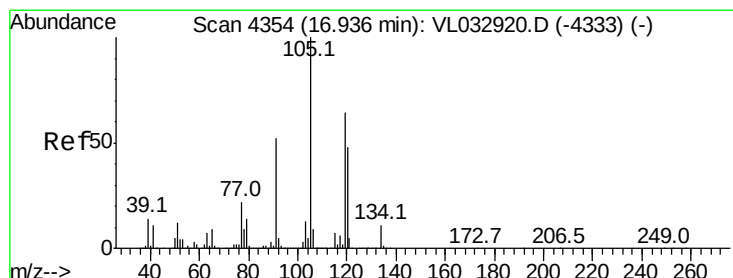
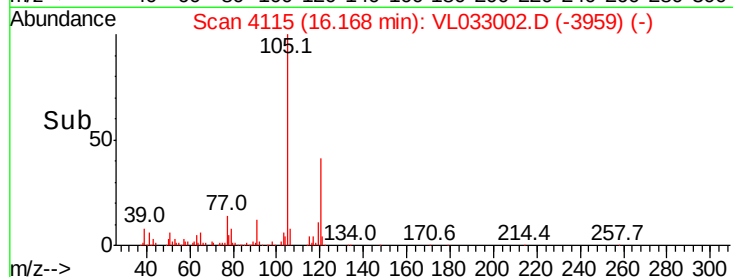
150000

100000

50000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 3.347 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Tgt Ion:105 Resp: 1245641

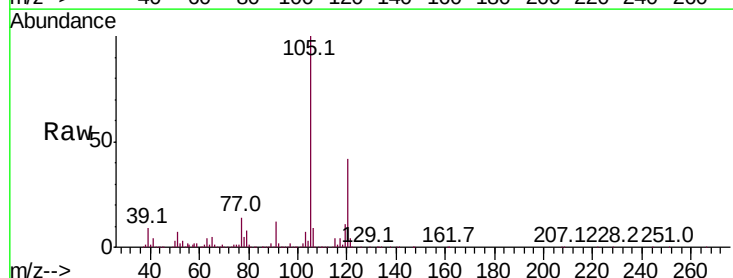
Ion Ratio Lower Upper

105 100

120 42.5 38.6 58.0

91 12.2 41.7 62.5#

77 14.4 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

800000

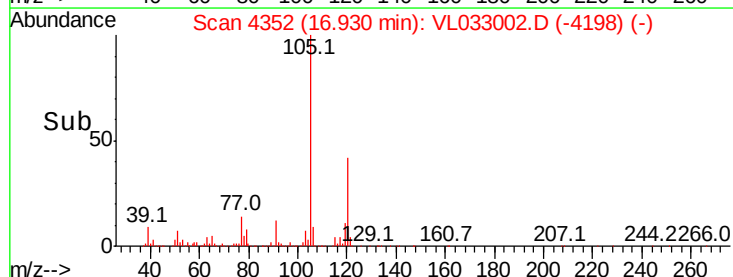
600000

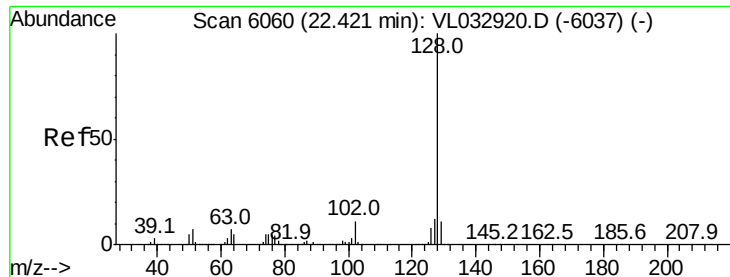
400000

200000

0

Time-->





#79

Naphthalene

Concen: 0.212 ppbv

RT: 22.43 min Scan# 6062

Delta R.T. 0.01 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

Instrument :

MSVOA_L

ClientSampleId :

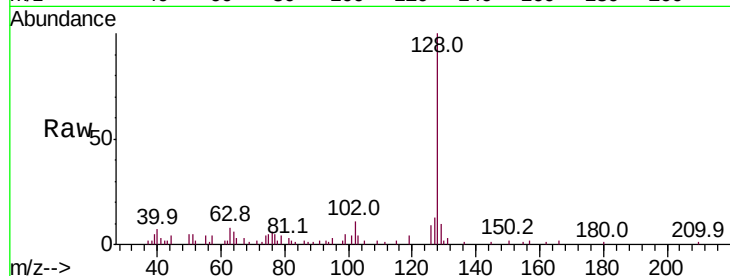
Tot Ion:128 Resp: 51014

Ion Ratio Lower Upper

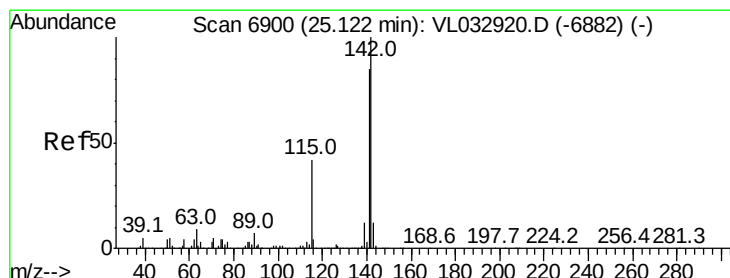
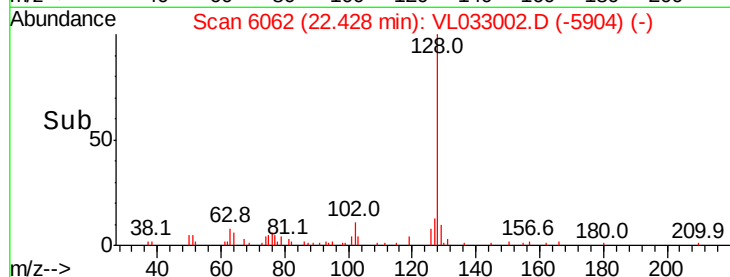
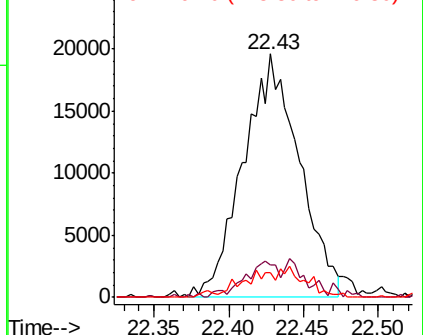
128 100

127 12.2 9.9 14.9

129 10.3 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: 0.062 ppbv

RT: 25.12 min Scan# 6899

Delta R.T. -0.00 min

Lab File: VL033002.D

Acq: 17 Dec 2018 19:15

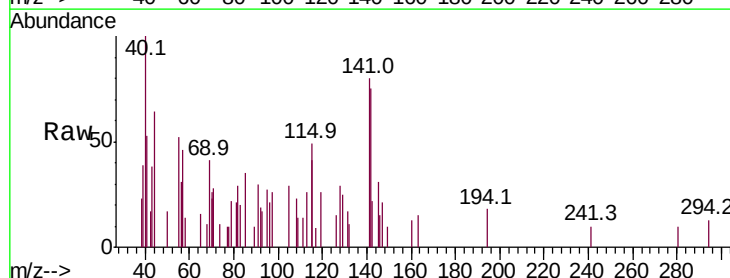
Tgt Ion:142 Resp: 3206

Ion Ratio Lower Upper

142 100

141 93.9 68.2 102.2

115 106.4 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

