

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032962.D
 Acq On : 11 Dec 2018 20:00
 Operator : SY/AP
 Sample : J6264-13
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 00:52:03 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	5.78	49	1362705	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3435050	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3452624	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2641341	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	22158	0.122	ppbv 91
3) Chlorodifluoromethane	3.02	51	40009	0.388	ppbv # 83
4) Chloromethane	3.17	50	37078	0.617	ppbv 98
6) Bromomethane	3.52	94	1214	0.032	ppbv # 66
7) Chloroethane	3.60	64	996	0.045	ppbv # 68
9) Propene	3.04	41	339743	8.325	ppbv # 77
10) Heptane	8.25	43	718570	4.688	ppbv 100
11) Trichlorofluoromethane	4.01	101	5242206	30.586	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	7422	0.051	ppbv # 57
13) Ethanol	3.67	45	266454	18.964	ppbv 97
15) Acetone	3.90	43	17695973	151.293	ppbv # 76
16) 1,3-Butadiene	3.40	39	165294	3.562	ppbv # 18
17) tert-Butyl alcohol	4.37	59	807092	27.102	ppbv # 80
19) Isopropyl Alcohol	4.04	45	290773	3.959	ppbv # 95
20) Methylene Chloride	4.42	84	533762	9.337	ppbv 97
21) Allyl Chloride	4.44	41	123366	1.294	ppbv # 70
23) Vinyl Acetate	5.14	43	258476	1.305	ppbv # 1
25) Ethyl Acetate	5.79	43	867198	3.139	ppbv # 80
26) Hexane	5.79	57	1238637	9.710	ppbv # 45
27) Carbon Disulfide	4.62	76	393175	2.465	ppbv 99
29) Chloroform	5.86	83	35271	0.155	ppbv 86
30) Cyclohexane	7.25	84	212057	2.006	ppbv 97
34) 2-Butanone	5.34	43	2314663	15.470	ppbv 100
35) Carbon Tetrachloride	7.14	117	8567	0.032	ppbv 92
36) Benzene	7.02	78	1252870	4.959	ppbv 99
38) Trichloroethene	7.97	130	62773	0.597	ppbv 89
39) 1,2-Dichloropropane	7.30	63	825703	8.617	ppbv # 20
40) 1,4-Dioxane	7.97	88	100461	2.846	ppbv # 91
41) Tetrahydrofuran	6.16	42	77208	0.830	ppbv # 86
42) Bromodichloromethane	7.92	83	16556	0.069	ppbv # 26
43) Methyl Methacrylate	8.15	69	6164	0.066	ppbv # 1
44) 2,2,4-Trimethylpentane	8.00	57	1112871	2.595	ppbv # 86
50) 4-Methyl-2-Pentanone	8.88	43	245875	1.028	ppbv 99
51) 2-Hexanone	10.25	43	324123	1.997	ppbv # 50
53) Toluene	9.96	91	3161641	11.799	ppbv 100
58) Ethyl Benzene	12.87	91	541349	1.470	ppbv 99
59) m/p-Xylene	13.14	91	1025693	3.072	ppbv # 100
60) o-Xylene	13.86	91	345934	1.026	ppbv 98
61) Styrene	13.70	104	245521	1.095	ppbv 98
62) Isopropylbenzene	14.84	105	13607015	28.921	ppbv 96
63) 1,1,2,2-Tetrachloroethane	13.83	83	18921	0.072	ppbv # 25

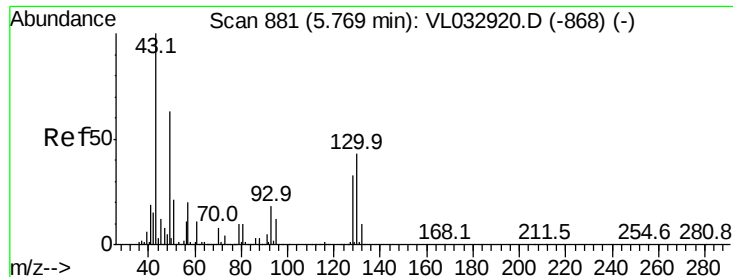
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
Data File : VL032962.D
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Operator : SY/AP
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Quant Time: Dec 12 00:52:03 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant 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)
69) p-Isopropyltoluene	17.83	119	34586	0.066	ppbv #	38
71) 2-Chlorotoluene	15.74	91	26884	0.077	ppbv	71
72) 4-Ethyltoluene	16.01	105	27507	0.073	ppbv #	7
74) 1,2,4-Trimethylbenzene	16.94	105	137839	0.332	ppbv #	64
79) Naphthalene	22.42	128	10101	0.038	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	2193	0.038	ppbv #	77

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

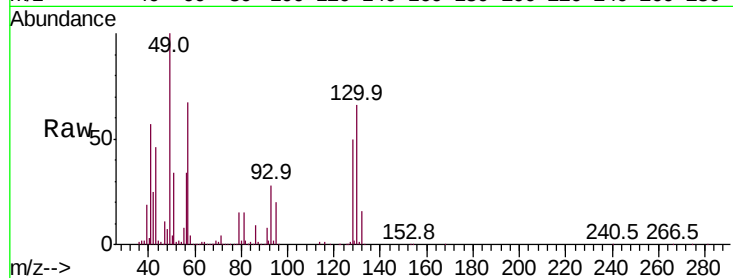
Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1362705

Ion	Ratio	Lower	Upper
49	100		
128	51.4	26.3	78.8
130	66.1	33.9	101.7

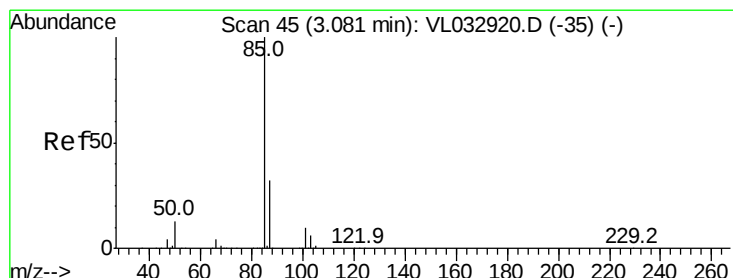
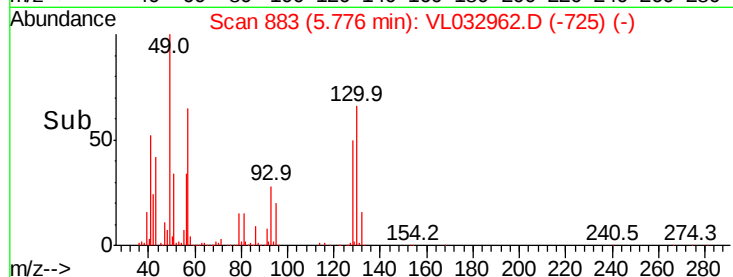
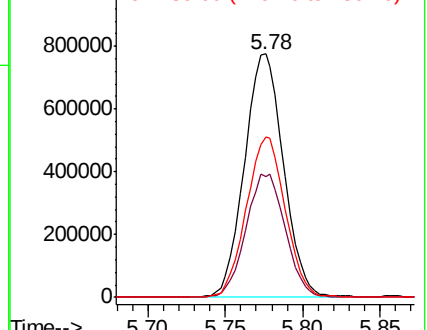


Abundance

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: 0.122 ppbv

RT: 3.08 min Scan# 45

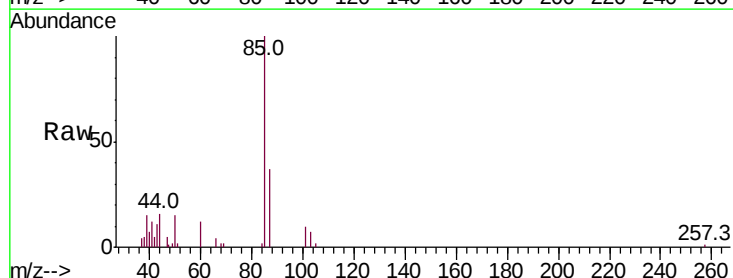
Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Tgt Ion: 85 Resp: 22158

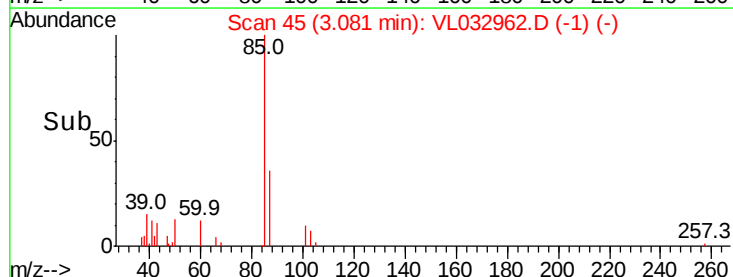
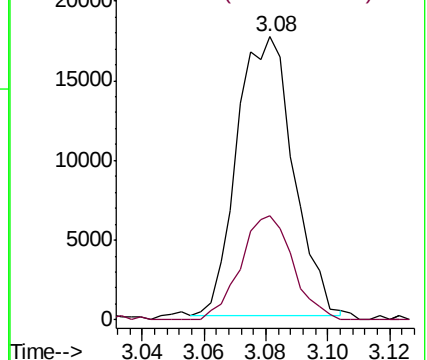
Ion	Ratio	Lower	Upper
85	100		
87	37.4	25.7	38.5

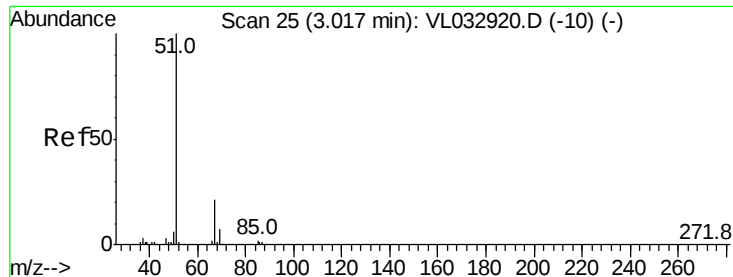


Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.388 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

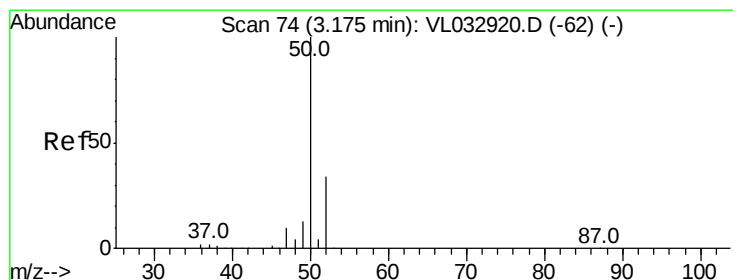
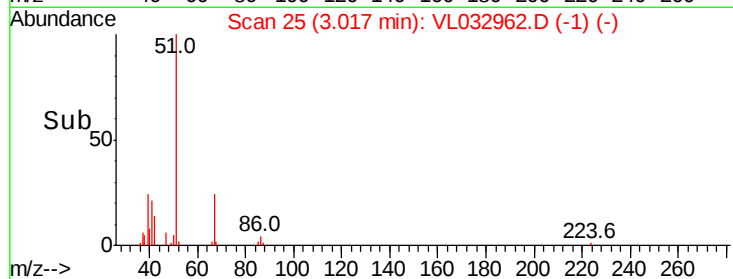
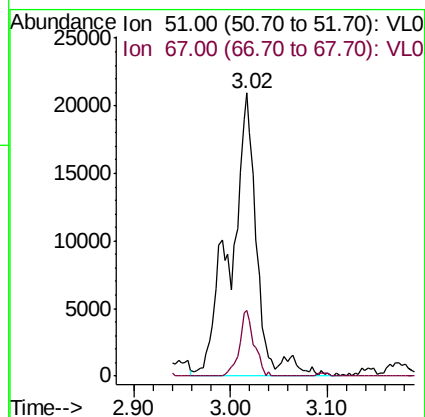
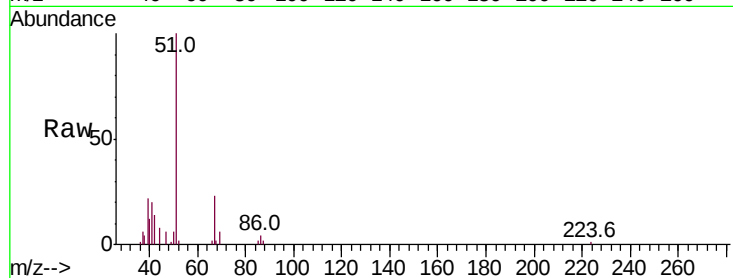
ClientSampleId :

Tot Ion: 51 Resp: 40009

Ion Ratio Lower Upper

51 100

67 12.9 16.8 25.2#



#4

Chloromethane

Concen: 0.617 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032962.D

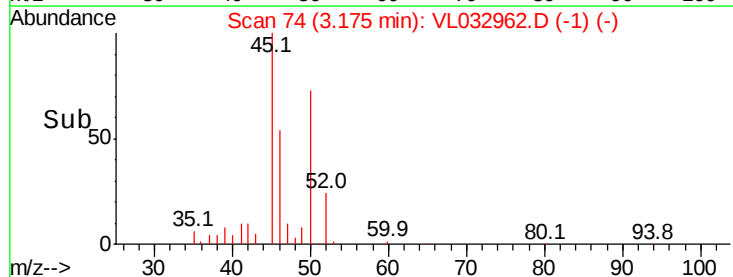
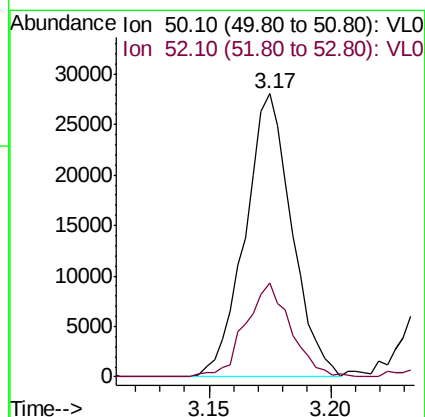
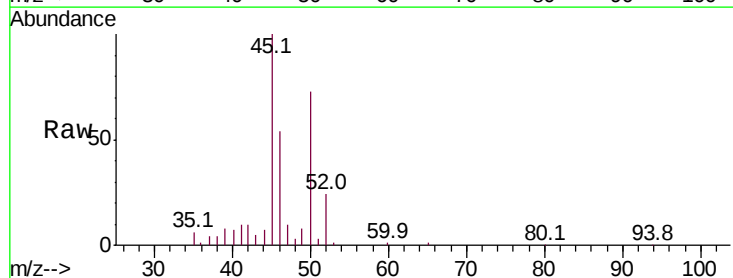
Acq: 11 Dec 2018 20:00

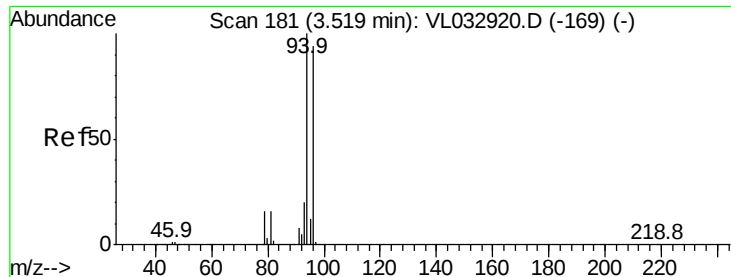
Tgt Ion: 50 Resp: 37078

Ion Ratio Lower Upper

50 100

52 33.0 27.3 40.9





#6

Bromomethane

Concen: 0.032 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

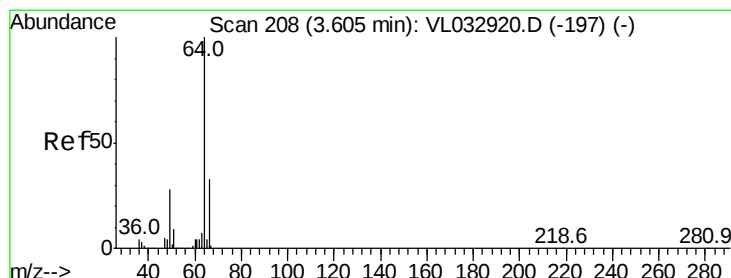
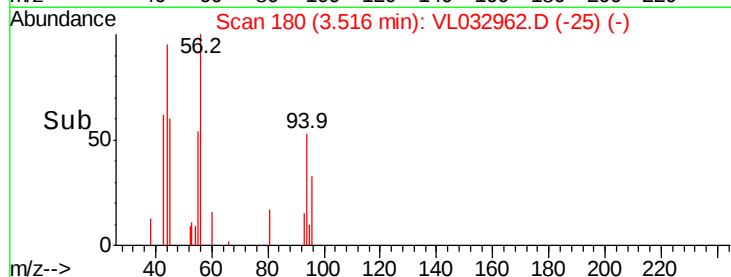
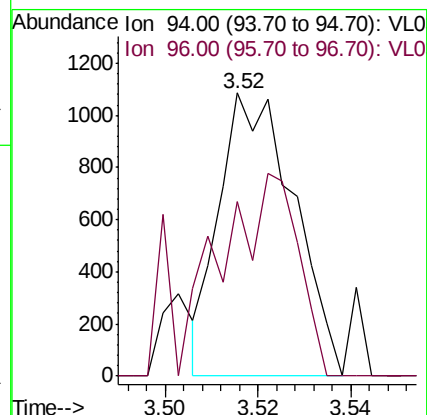
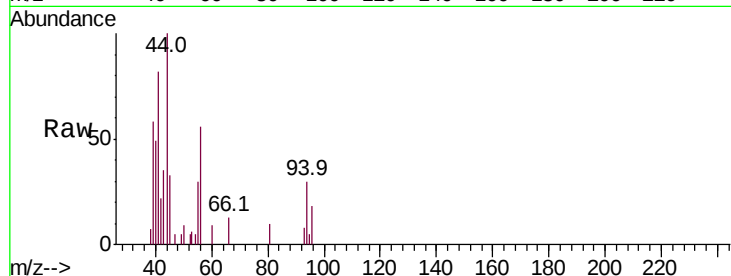
ClientSampleId :

Tot Ion: 94 Resp: 1214

Ion Ratio Lower Upper

94 100

96 61.6 75.5 113.3#



#7

Chloroethane

Concen: 0.045 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL032962.D

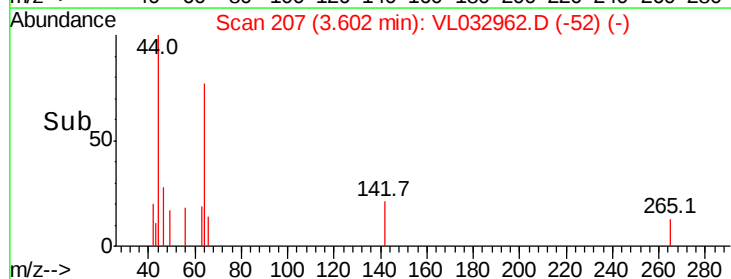
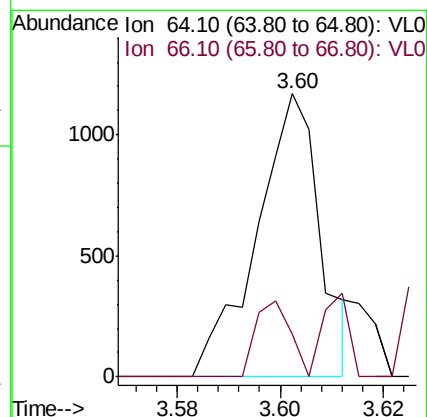
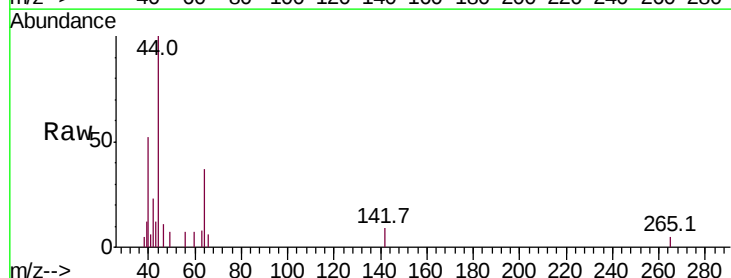
Acq: 11 Dec 2018 20:00

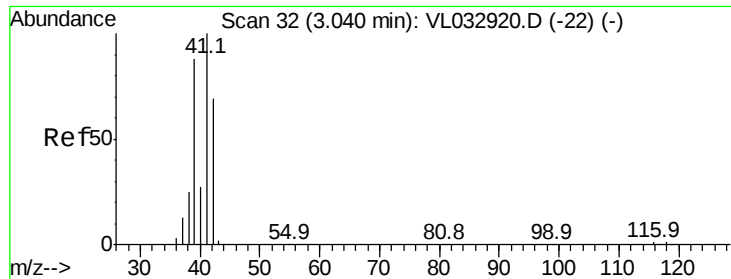
Tgt Ion: 64 Resp: 996

Ion Ratio Lower Upper

64 100

66 15.1 26.6 40.0#





#9

Propene

Concen: 8.325 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

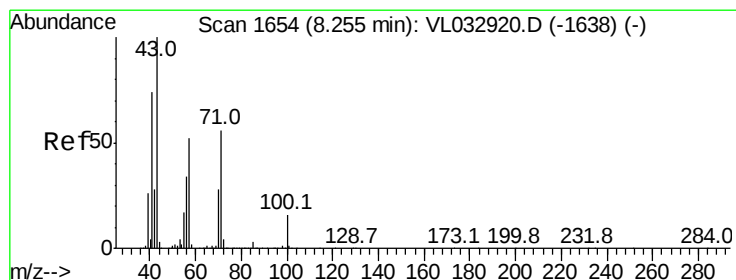
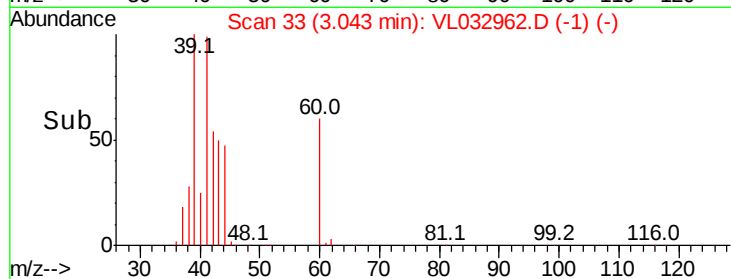
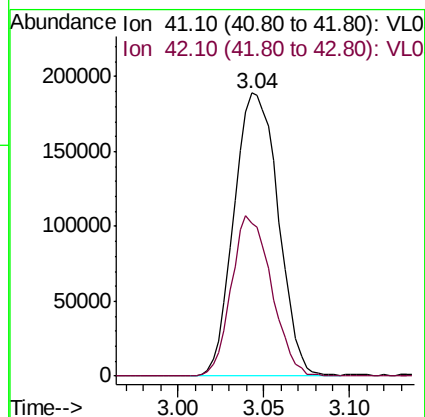
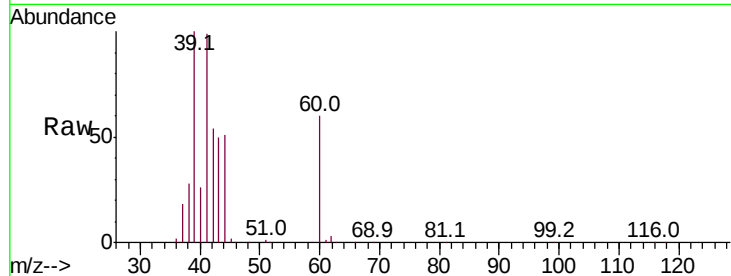
ClientSampleId :

Tot Ion: 41 Resp: 339743

Ion Ratio Lower Upper

41 100

42 51.5 56.2 84.2#



#10

Heptane

Concen: 4.688 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL032962.D

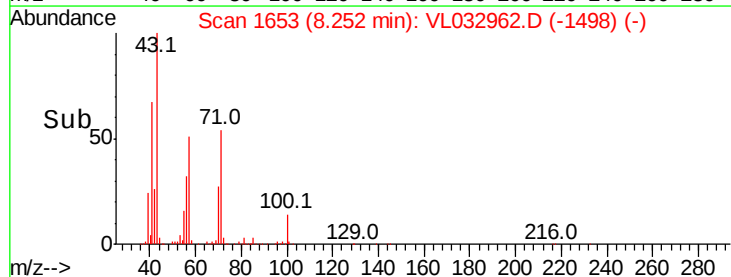
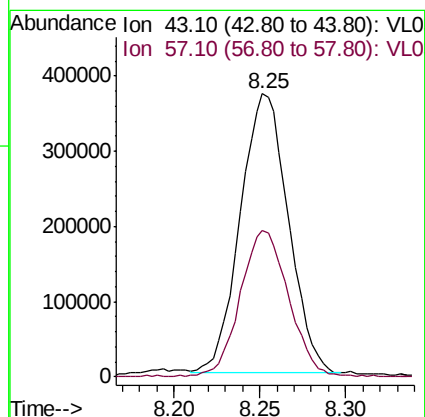
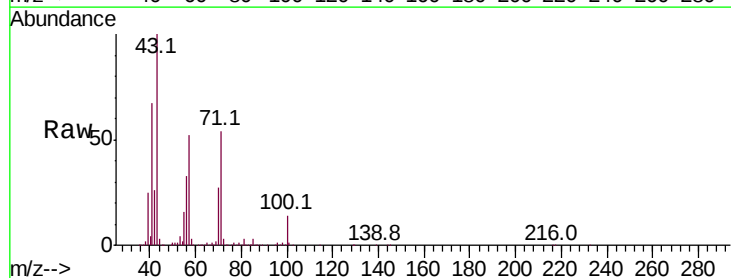
Acq: 11 Dec 2018 20:00

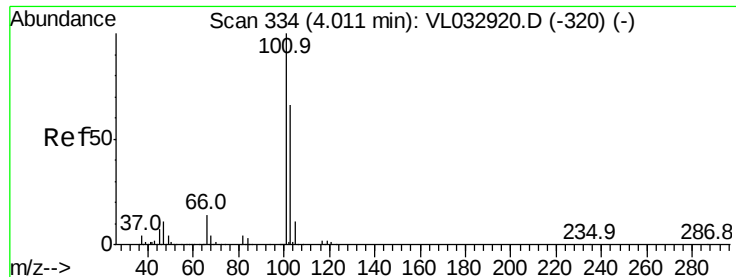
Tgt Ion: 43 Resp: 718570

Ion Ratio Lower Upper

43 100

57 52.4 41.8 62.6





#11

Trichlorofluoromethane

Concen: 30.586 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

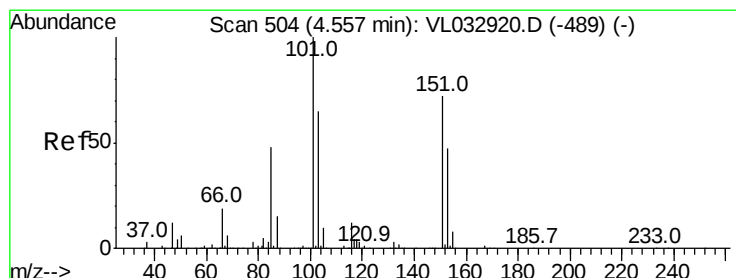
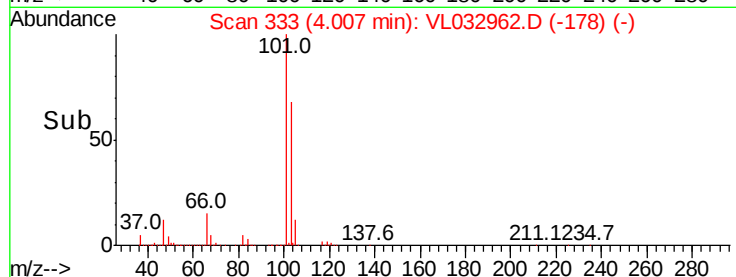
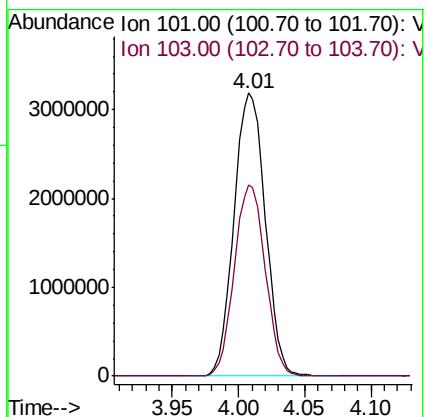
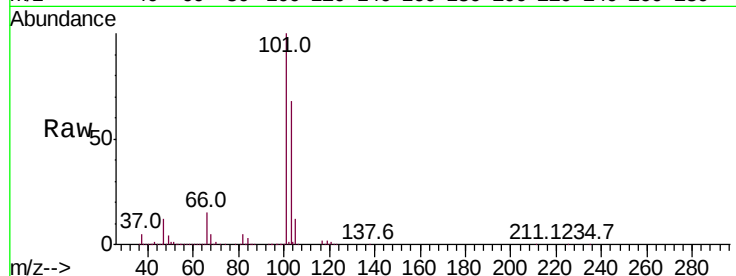
ClientSampleId :

Tot Ion:101 Resp: 5242206

Ion Ratio Lower Upper

101 100

103 67.8 52.7 79.1



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.051 ppbv

RT: 4.55 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL032962.D

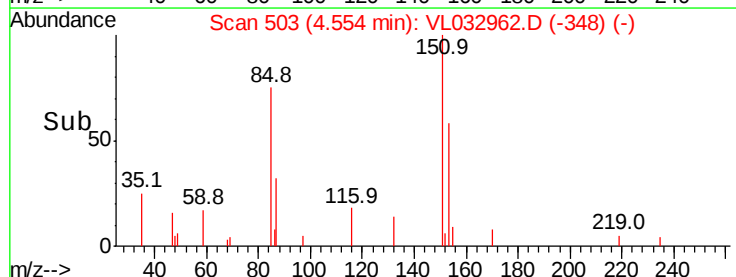
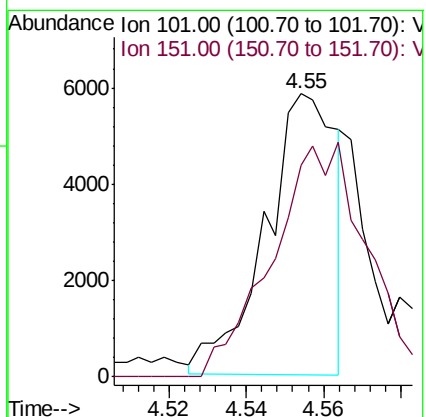
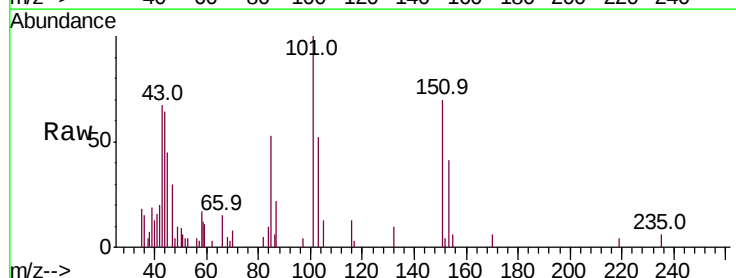
Acq: 11 Dec 2018 20:00

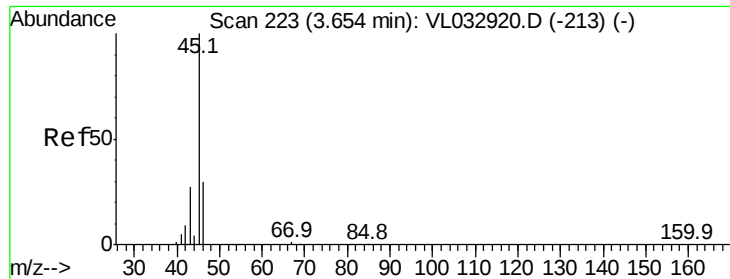
Tgt Ion:101 Resp: 7422

Ion Ratio Lower Upper

101 100

151 110.7 59.3 88.9#





#13

Ethanol

Concen: 18.964 ppbv

RT: 3.67 min Scan# 227

Delta R.T. 0.01 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

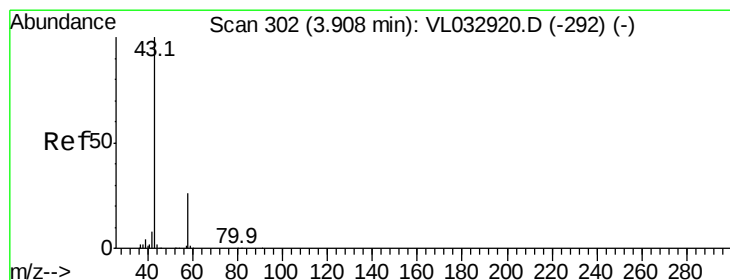
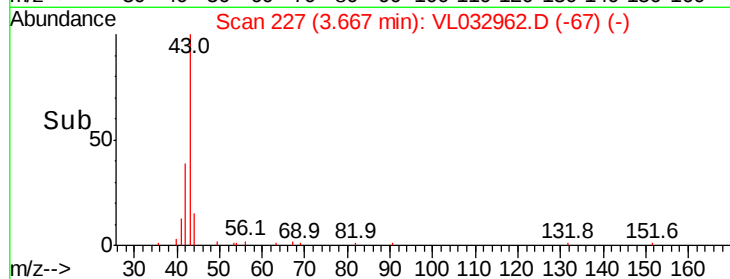
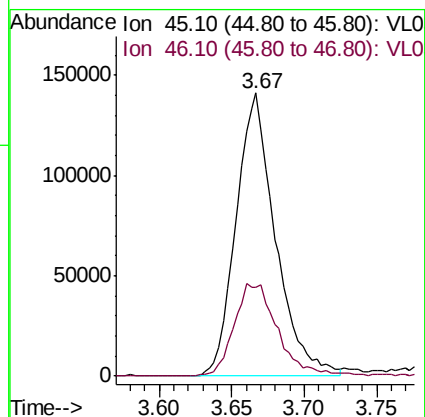
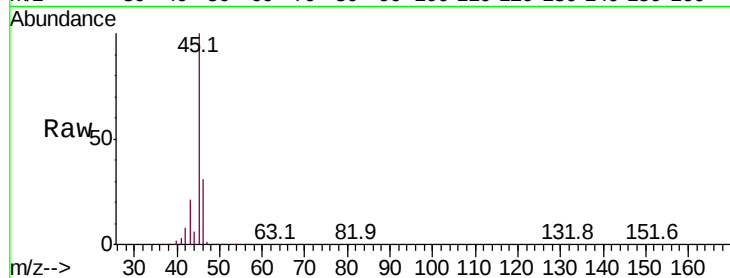
ClientSampleId :

Tot Ion: 45 Resp: 266454

Ion Ratio Lower Upper

45 100

46 36.3 13.8 55.4



#15

Acetone

Concen: 151.293 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032962.D

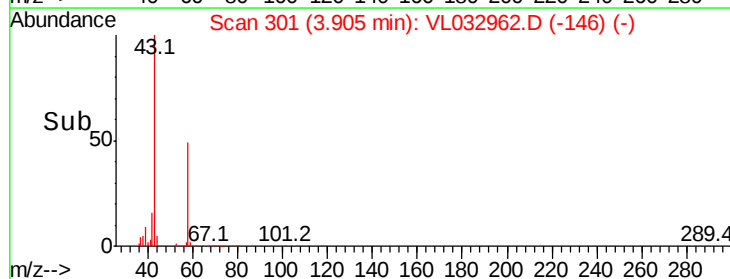
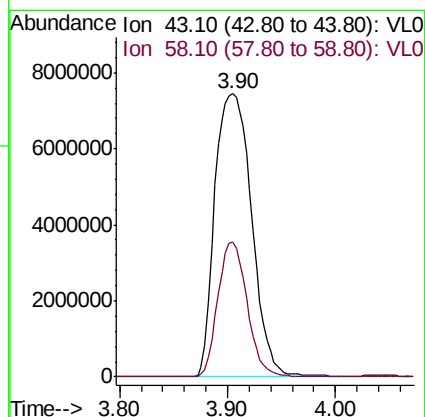
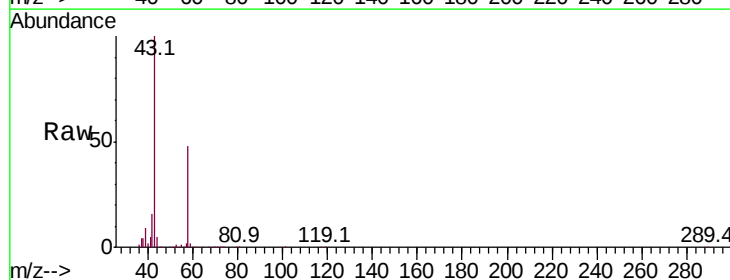
Acq: 11 Dec 2018 20:00

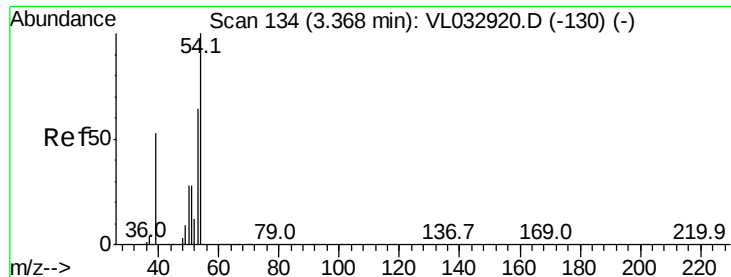
Tgt Ion: 43 Resp: 17695973

Ion Ratio Lower Upper

43 100

58 38.0 20.6 30.8#

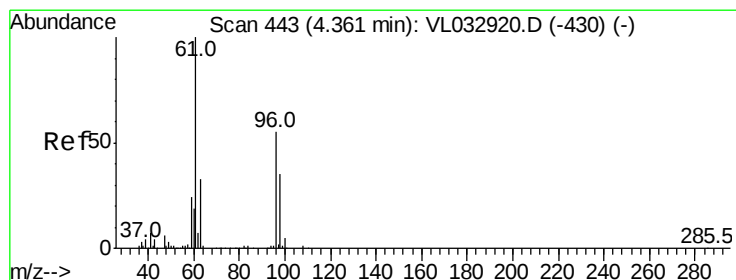
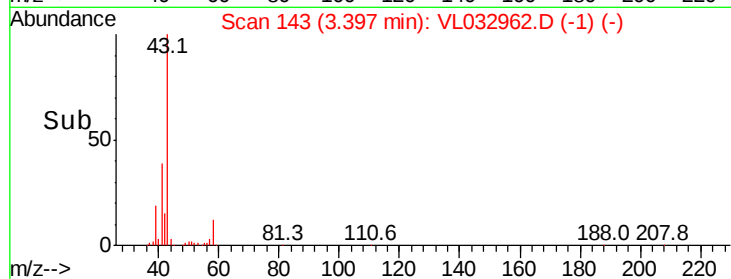
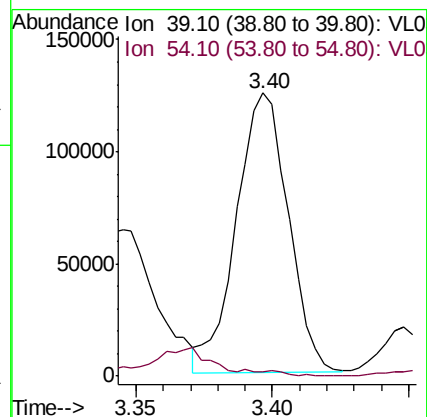
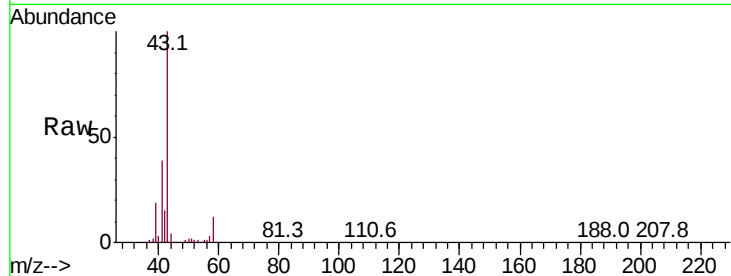




#16
 1,3-Butadiene
 Concen: 3.562 ppbv
 RT: 3.40 min Scan# 143
 Delta R.T. 0.03 min
 Lab File: VL032962.D
 Acq: 11 Dec 2018 20:00

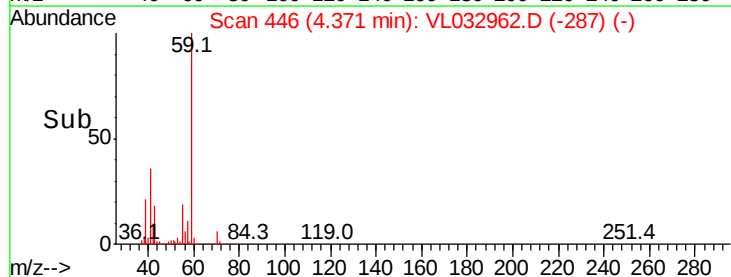
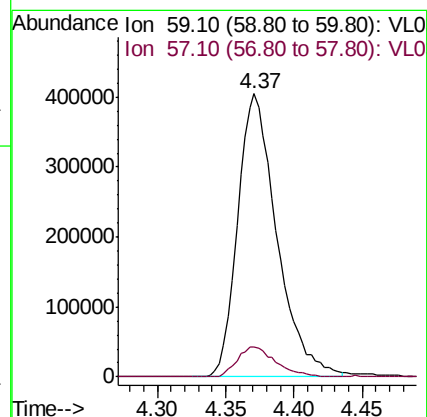
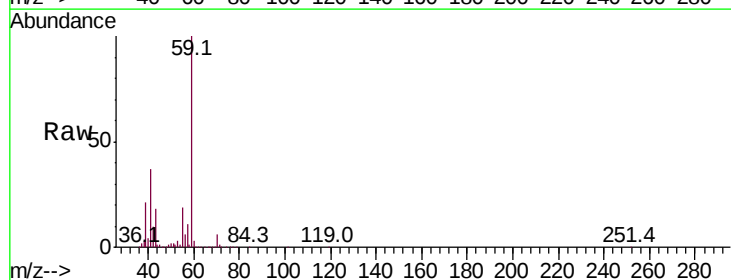
Instrument :
 MSVOA_L
 ClientSampled :

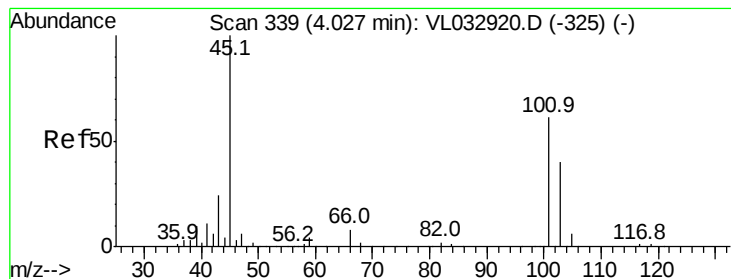
Tot Ion: 39 Resp: 165294
 Ion Ratio Lower Upper
 39 100
 54 13.6 72.7 109.1#



#17
 tert-Butyl alcohol
 Concen: 27.102 ppbv
 RT: 4.37 min Scan# 446
 Delta R.T. 0.01 min
 Lab File: VL032962.D
 Acq: 11 Dec 2018 20:00

Tgt Ion: 59 Resp: 807092
 Ion Ratio Lower Upper
 59 100
 57 10.5 0.6 1.0#





#19

Isopropyl Alcohol

Concen: 3.959 ppbv

RT: 4.04 min Scan# 344

Delta R.T. 0.02 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

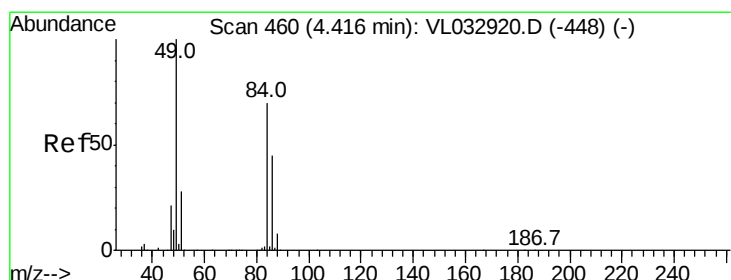
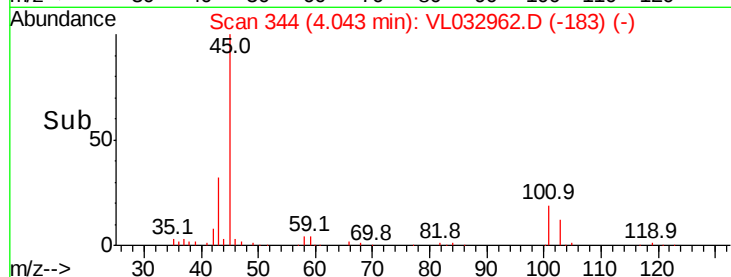
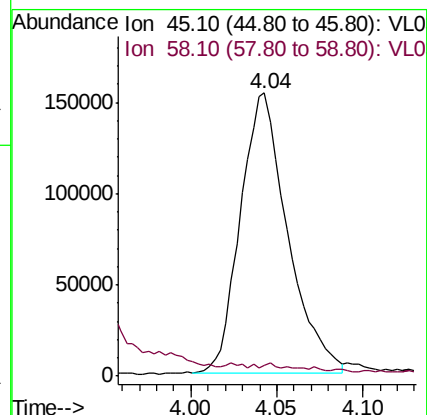
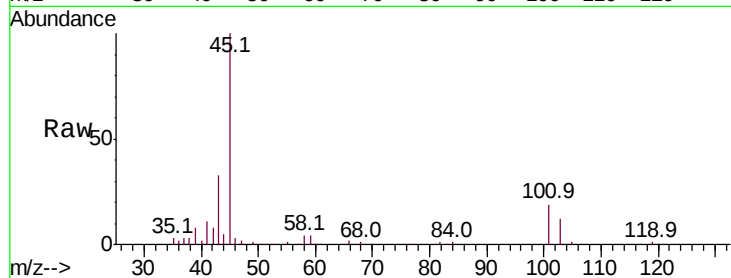
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 45 Resp: 290773

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 9.337 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.01 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Tgt Ion: 84 Resp: 533762

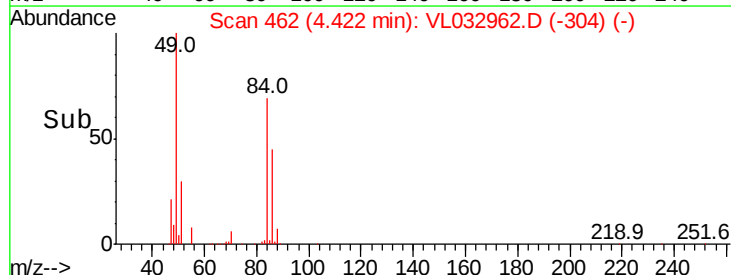
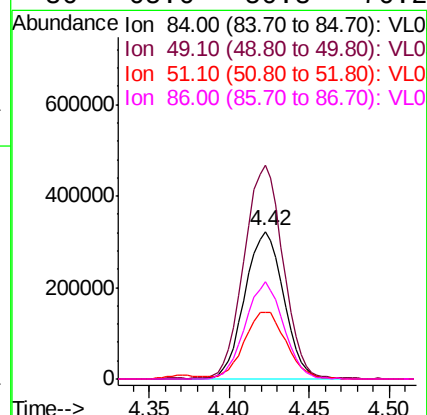
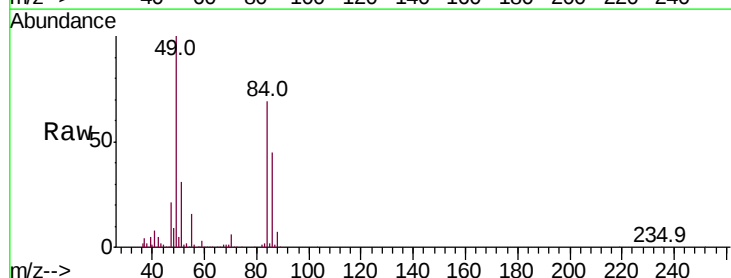
Ion Ratio Lower Upper

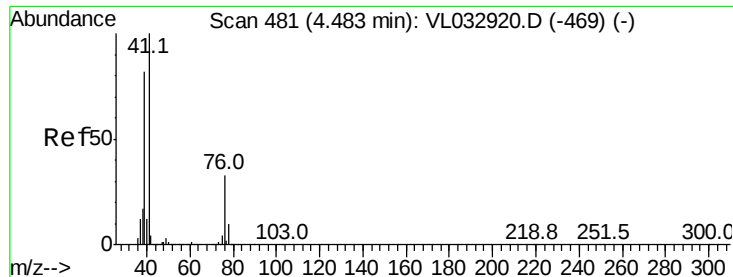
84 100

49 144.1 113.8 170.8

51 44.8 31.8 47.8

86 65.6 50.8 76.2

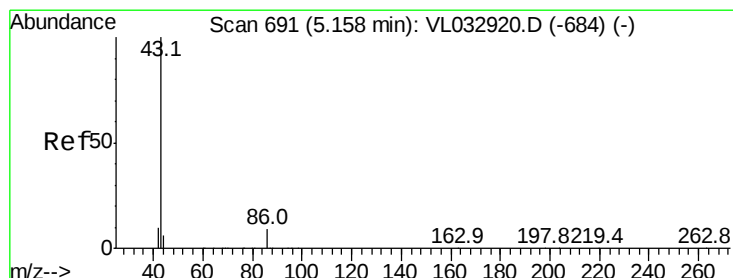
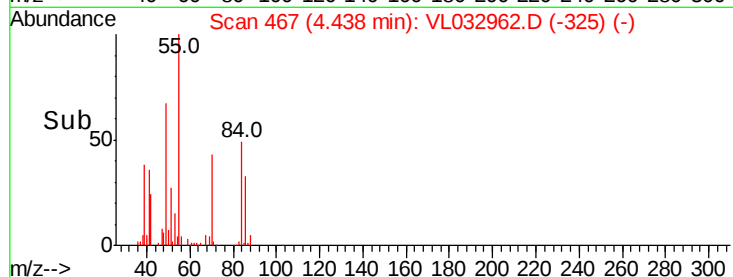
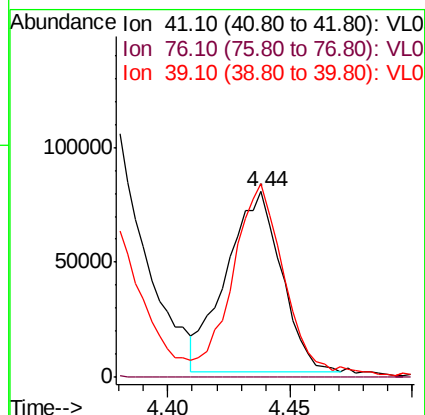
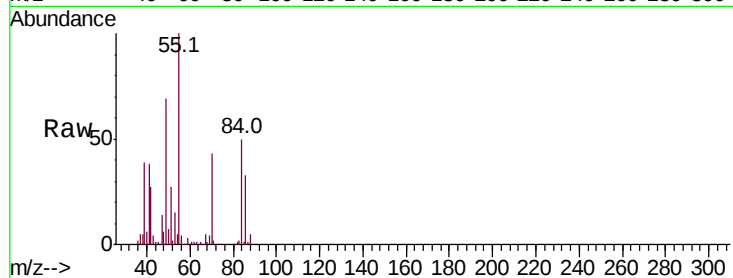




#21
Allvl Chloride
Concen: 1.294 ppbv
RT: 4.44 min Scan# 467
Delta R.T. -0.04 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

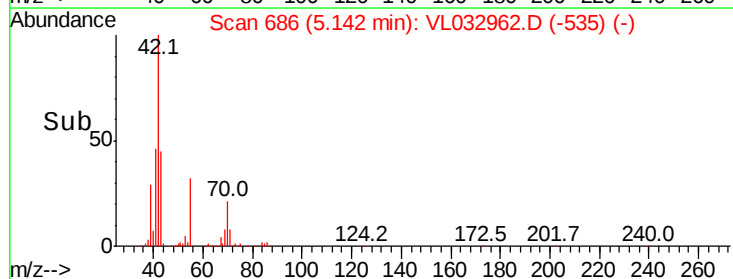
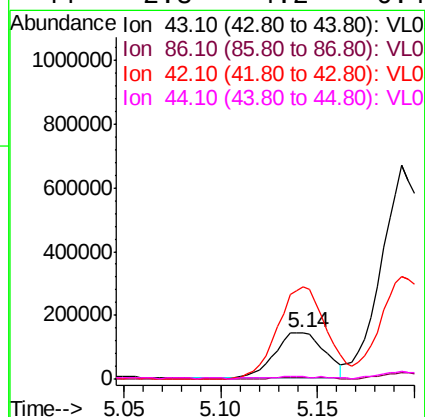
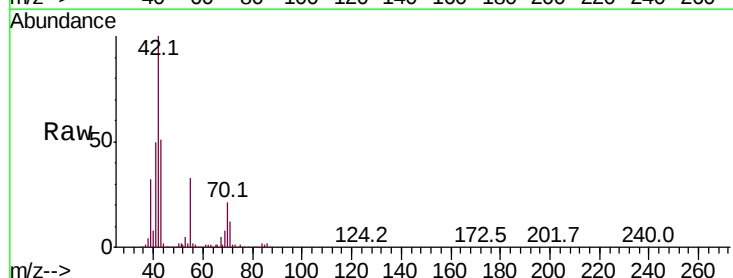
Instrument :
MSVOA_L
ClientSampleId :

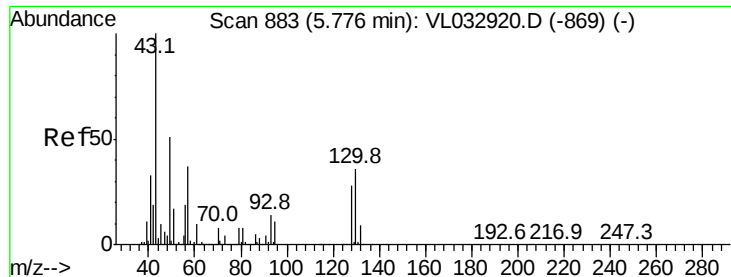
Tot Ion: 41 Resp: 123366
Ion Ratio Lower Upper
41 100
76 0.0 25.2 37.8#
39 99.2 65.2 97.8#



#23
Vinyl Acetate
Concen: 1.305 ppbv
RT: 5.14 min Scan# 686
Delta R.T. -0.02 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

Tgt Ion: 43 Resp: 258476
Ion Ratio Lower Upper
43 100
86 3.2 6.6 9.8#
42 201.1 8.3 12.5#
44 2.8 4.2 6.4#





#25

Ethyl Acetate

Concen: 3.139 ppbv

RT: 5.79 min Scan# 887

Delta R.T. 0.01 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 867198

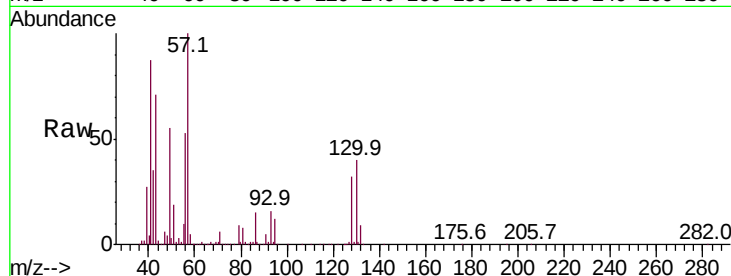
Ion Ratio Lower Upper

43 100

45 2.3 7.8 11.6#

61 0.6 7.4 11.2#

70 1.9 5.7 8.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

600000

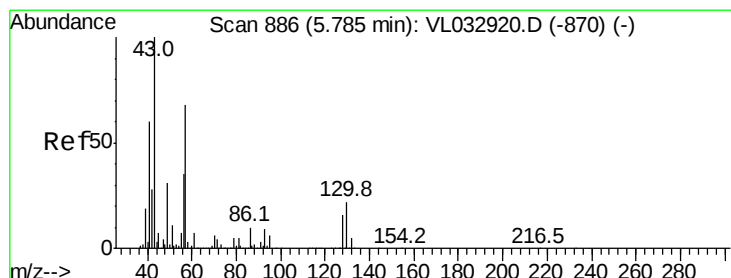
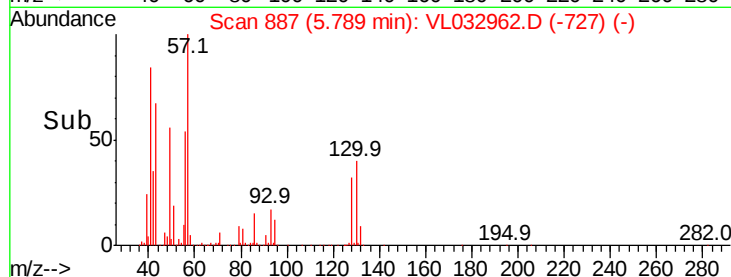
400000

200000

0

5.75 5.80 5.85

Time-->



#26

Hexane

Concen: 9.710 ppbv

RT: 5.79 min Scan# 886

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Tgt Ion: 57 Resp: 1238637

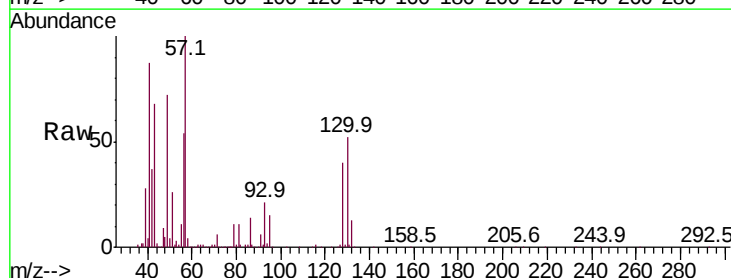
Ion Ratio Lower Upper

57 100

41 91.3 72.2 108.2

43 70.2 171.9 257.9#

56 54.4 42.2 63.2



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

1000000

800000

600000

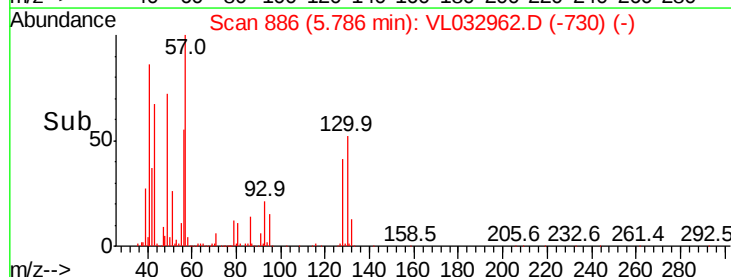
400000

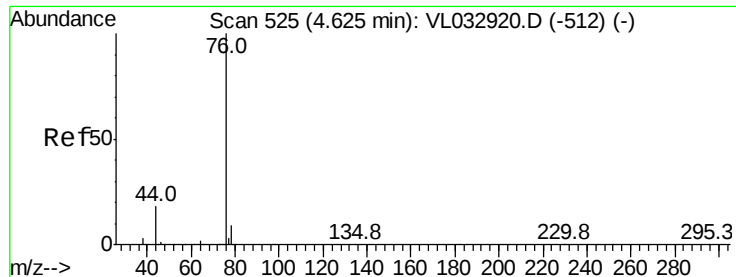
200000

0

5.70 5.75 5.80 5.85

Time-->





#27

Carbon Disulfide

Concen: 2.465 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

ClientSampleId :

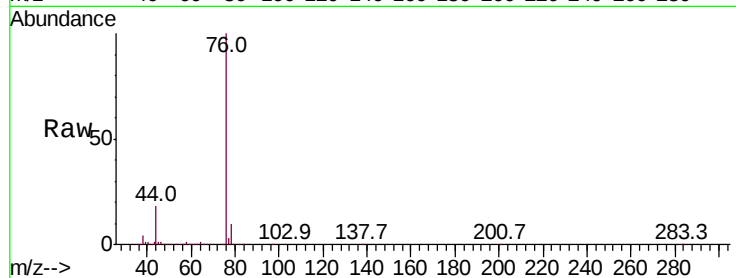
Tot Ion: 76 Resp: 393175

Ion Ratio Lower Upper

76 100

44 19.1 14.7 22.1

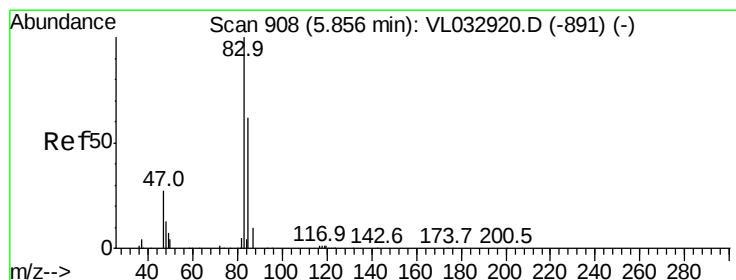
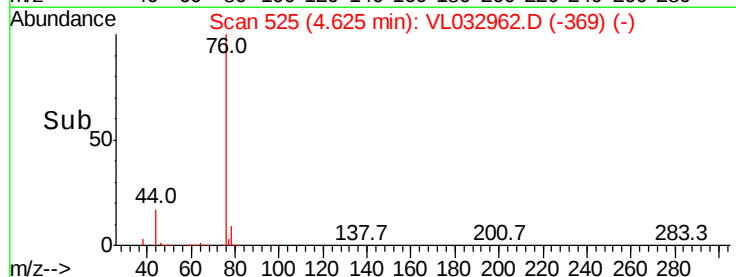
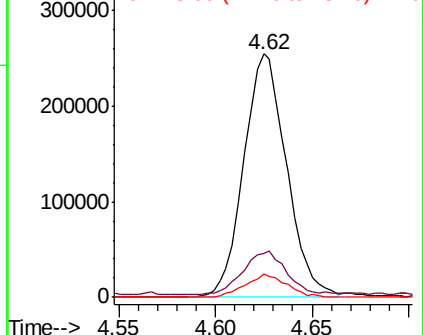
78 9.3 7.4 11.2



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



#29

Chloroform

Concen: 0.155 ppbv

RT: 5.86 min Scan# 909

Delta R.T. 0.00 min

Lab File: VL032962.D

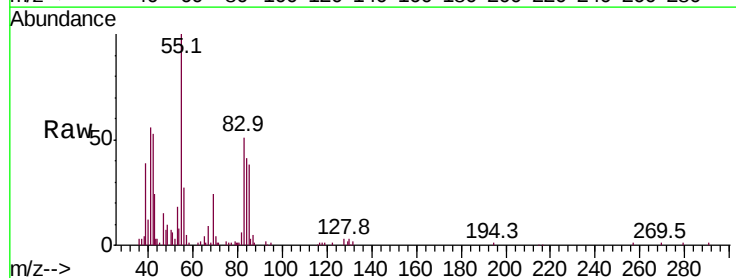
Acq: 11 Dec 2018 20:00

Tgt Ion: 83 Resp: 35271

Ion Ratio Lower Upper

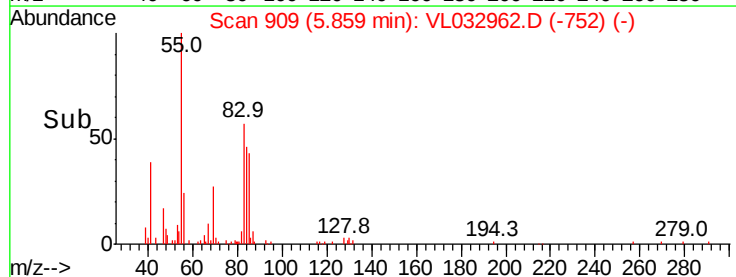
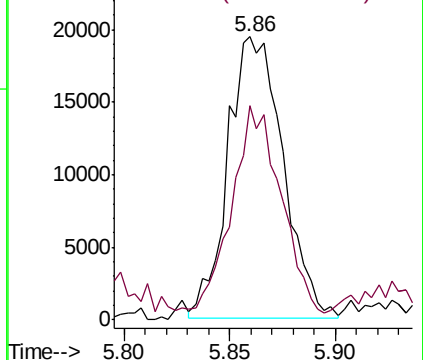
83 100

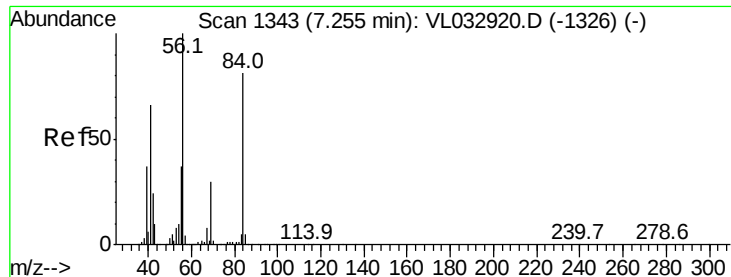
85 73.0 49.8 74.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

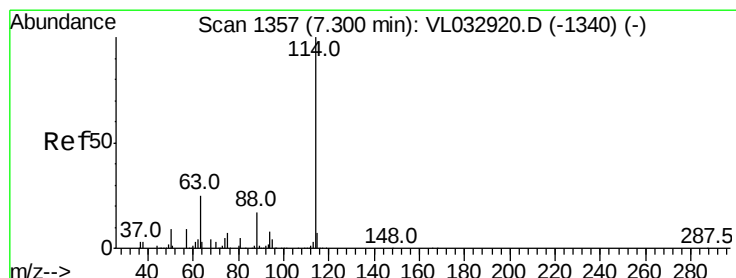
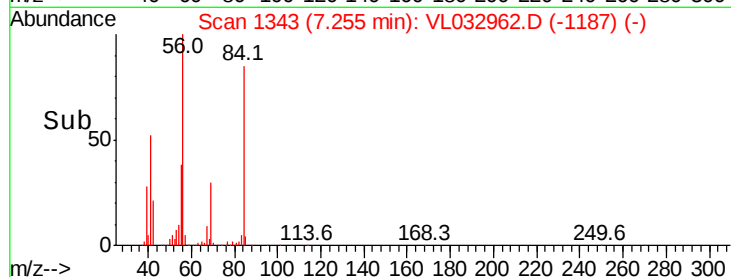
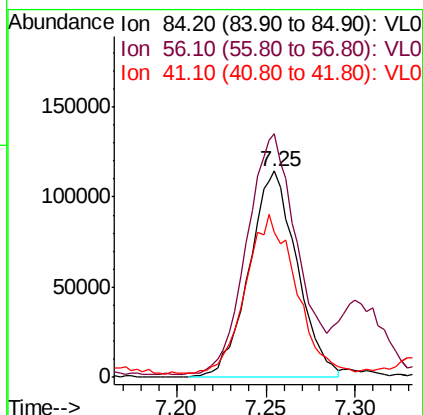
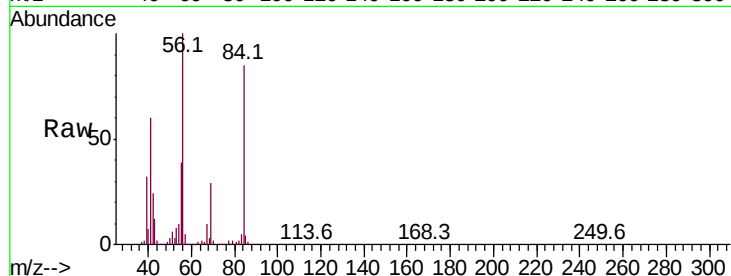




#30
Cyclohexane
Concen: 2.006 ppbv
RT: 7.25 min Scan# 1343
Delta R.T. 0.00 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

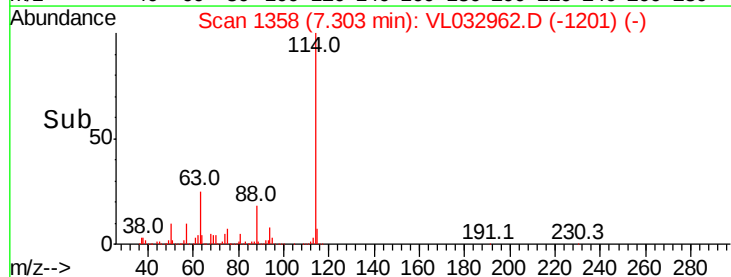
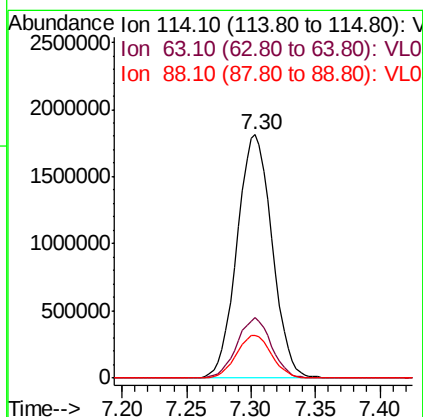
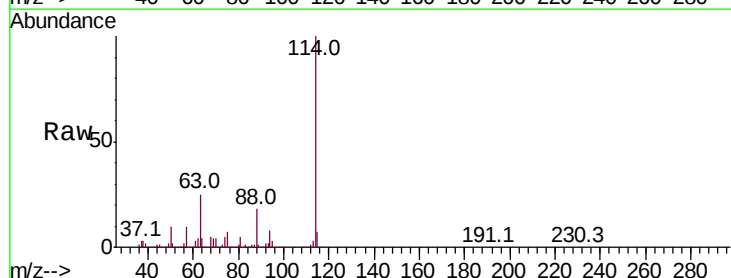
Instrument :
MSVOA_L
ClientSampleId :

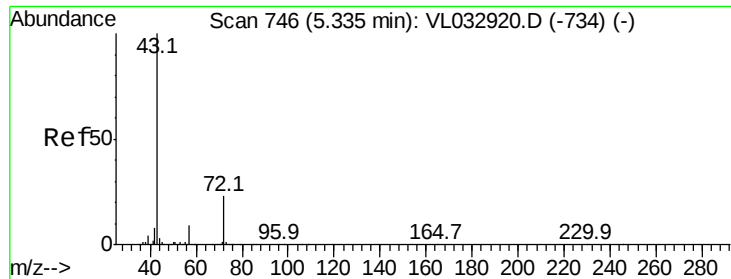
Tot Ion	Ratio	Lower	Upper
84	100		
56	125.0	102.5	153.7
41	82.9	64.1	96.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.5	20.1	30.1
88	17.6	14.2	21.4





#34

2-Butanone

Concen: 15.470 ppbv

RT: 5.34 min Scan# 746

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

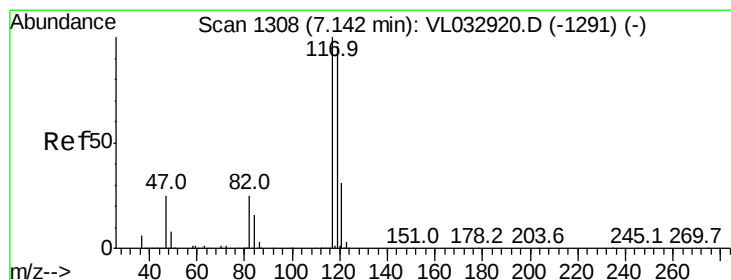
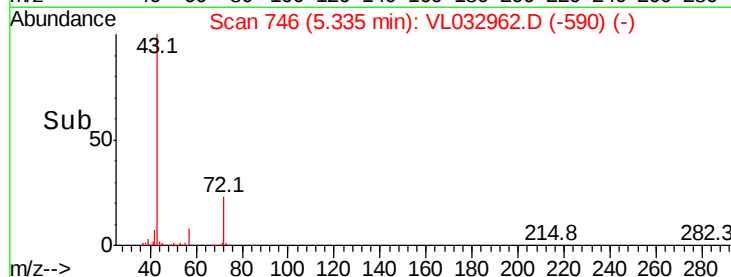
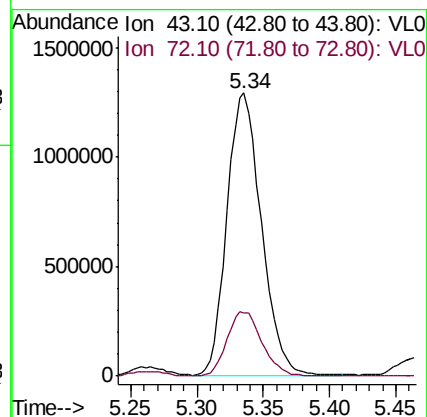
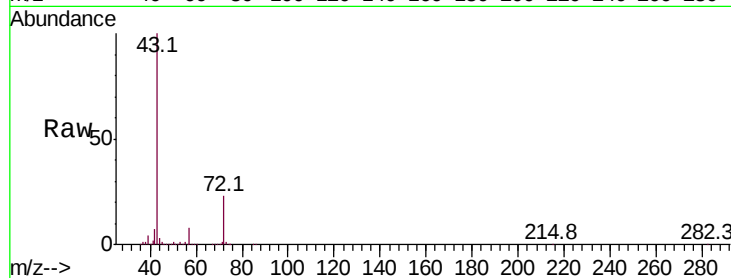
ClientSampled :

Tot Ion: 43 Resp: 2314663

Ion Ratio Lower Upper

43 100

72 23.3 18.8 28.2



#35

Carbon Tetrachloride

Concen: 0.032 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.01 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

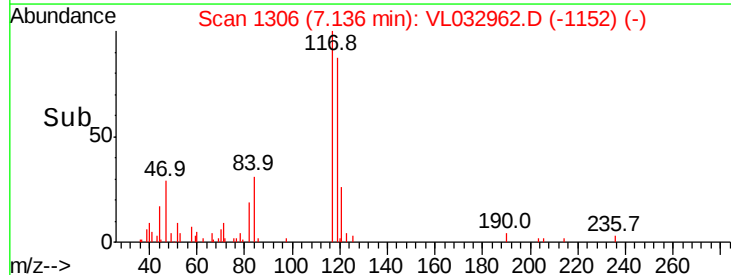
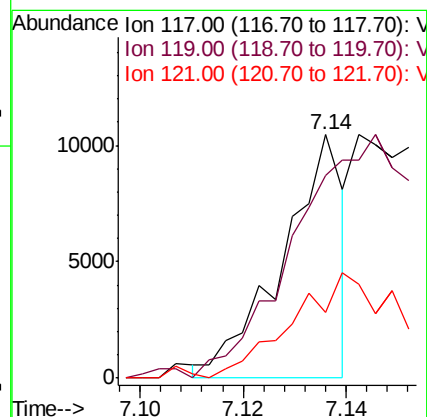
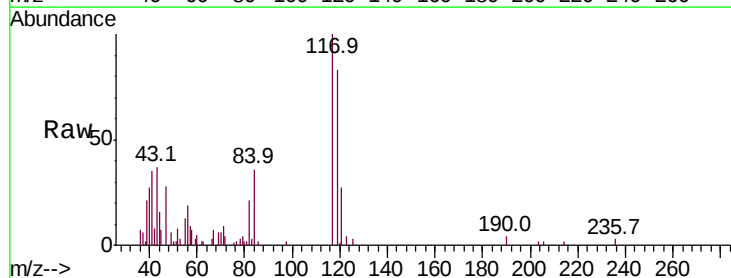
Tgt Ion: 117 Resp: 8567

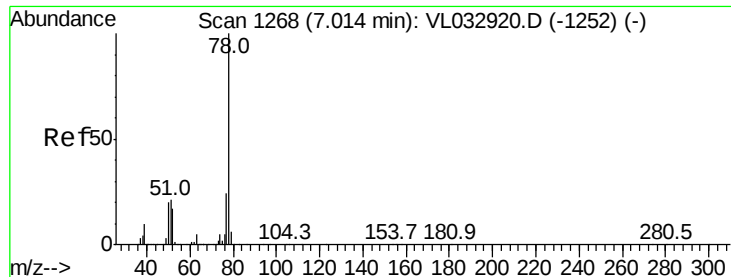
Ion Ratio Lower Upper

117 100

119 87.6 76.5 114.7

121 26.5 24.5 36.7





#36

Benzene

Concen: 4.959 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

ClientSampleId :

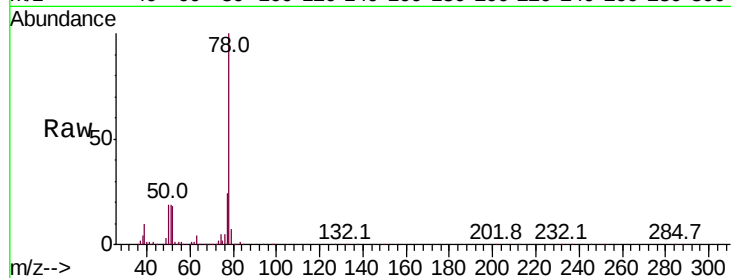
Tot Ion: 78 Resp: 1252870

Ion Ratio Lower Upper

78 100

77 23.6 18.9 28.3

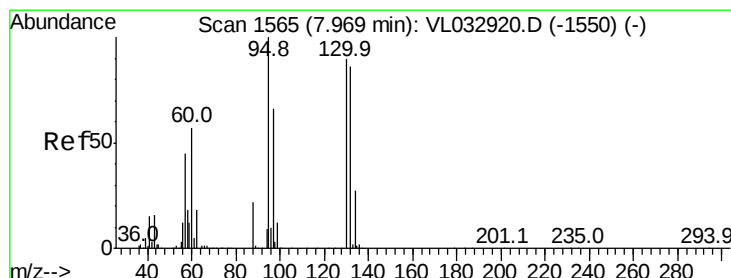
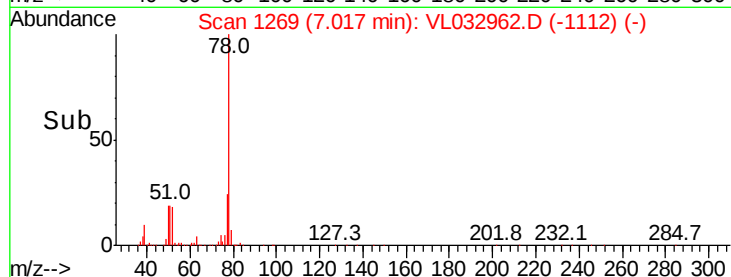
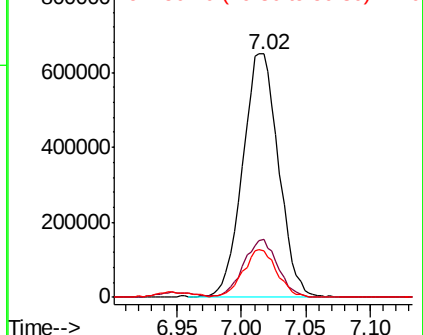
50 19.0 16.1 24.1



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



#38

Trichloroethene

Concen: 0.597 ppbv

RT: 7.97 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Tgt Ion:130 Resp: 62773

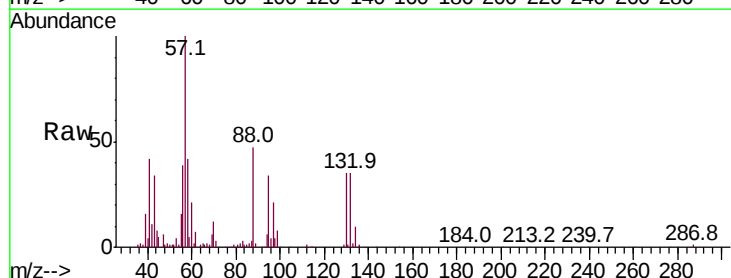
Ion Ratio Lower Upper

130 100

95 96.9 88.6 132.8

132 100.5 76.1 114.1

97 58.8 58.0 87.0

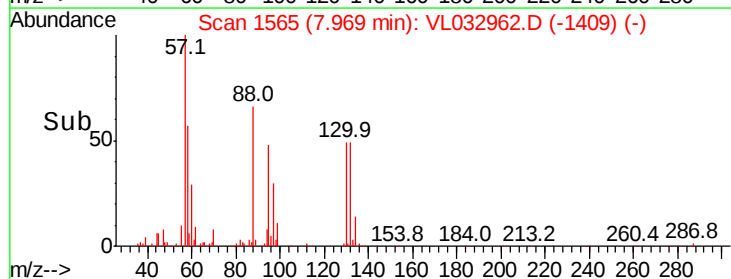
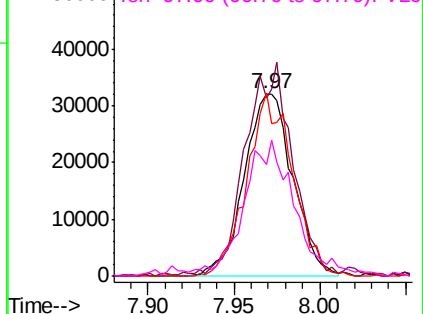


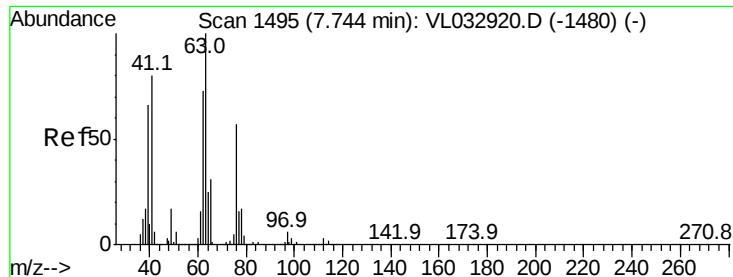
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 8.617 ppbv

RT: 7.30 min Scan# 1358

Delta R.T. -0.44 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :
MSVOA_L
ClientSampleId :

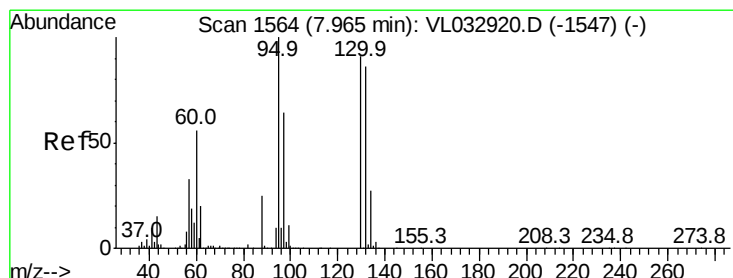
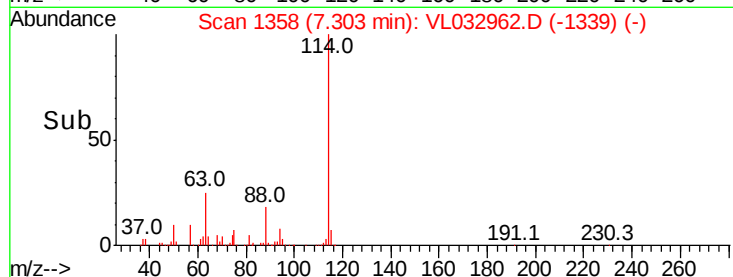
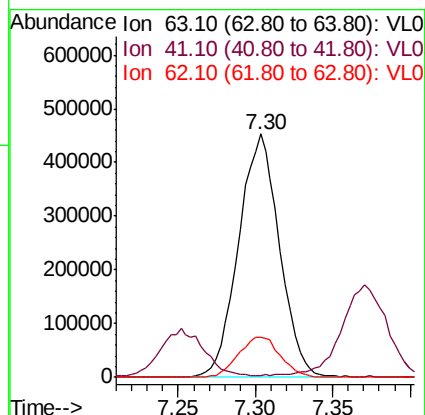
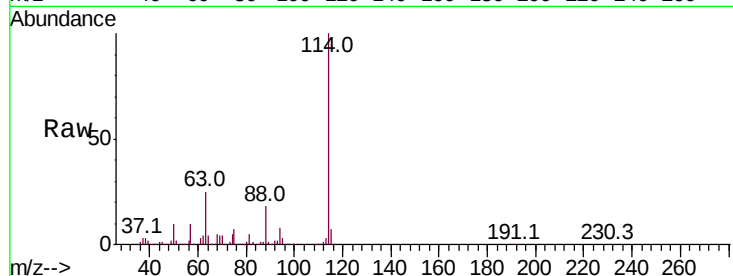
Tot Ion: 63 Resp: 825703

Ion Ratio Lower Upper

63 100

41 0.0 63.9 95.9#

62 16.2 58.8 88.2#



#40

1,4-Dioxane

Concen: 2.846 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Tgt Ion: 88 Resp: 100461

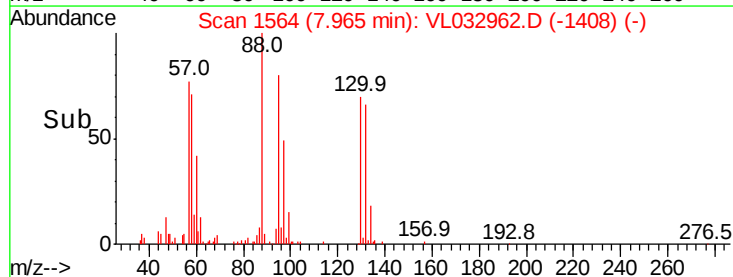
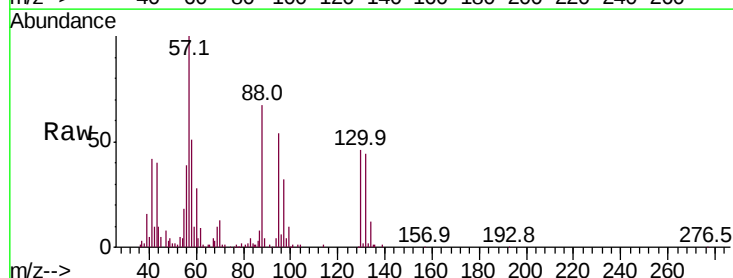
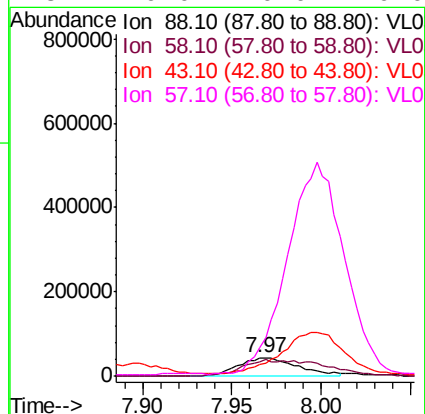
Ion Ratio Lower Upper

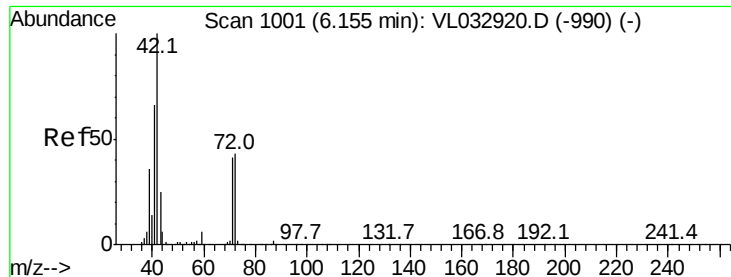
88 100

58 123.6 107.4 161.2

43 78.8 0.0 0.0#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.830 ppbv

RT: 6.16 min Scan# 1002

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

ClientSampleId :

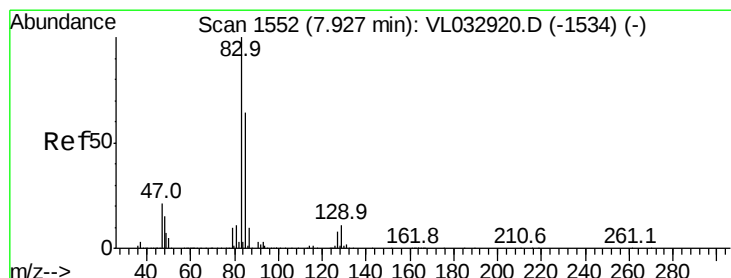
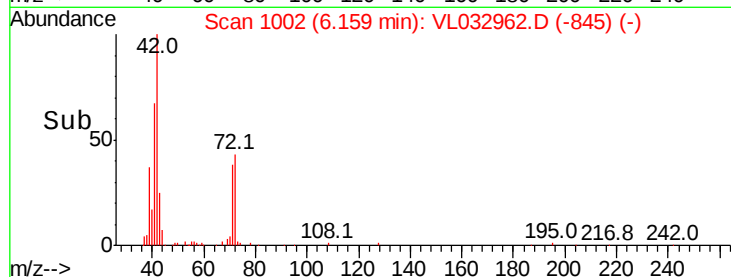
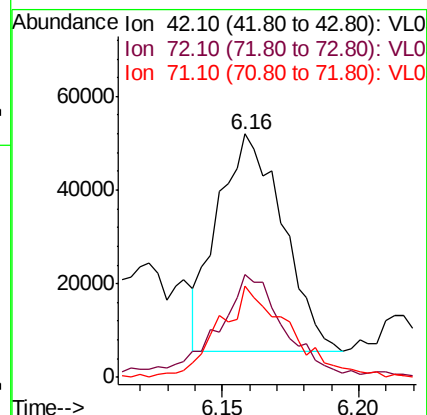
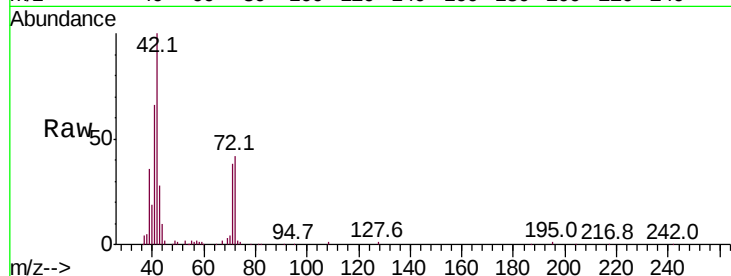
Tot Ion: 42 Resp: 77208

Ion Ratio Lower Upper

42 100

72 53.1 32.9 49.3#

71 45.3 32.0 48.0



#42

Bromodichloromethane

Concen: 0.069 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. -0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

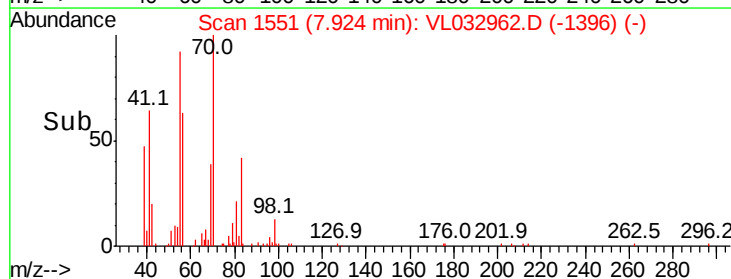
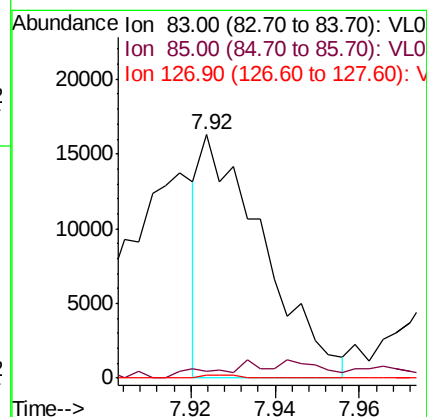
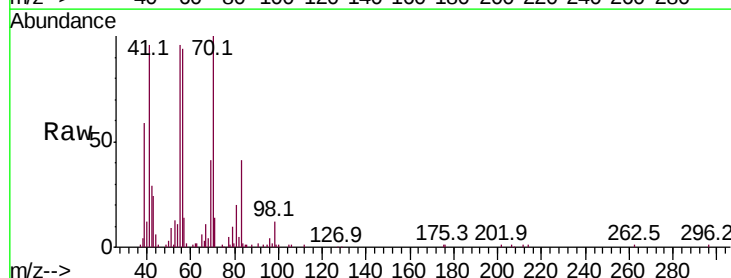
Tgt Ion: 83 Resp: 16556

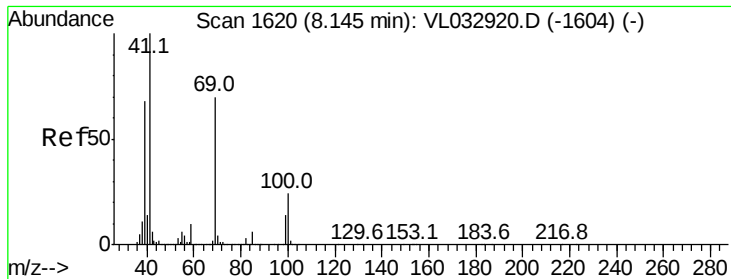
Ion Ratio Lower Upper

83 100

85 0.4 50.9 76.3#

127 1.3 6.7 10.1#





#43

Methyl Methacrylate

Concen: 0.066 ppbv

RT: 8.15 min Scan# 1621

Delta R.T. 0.00 min

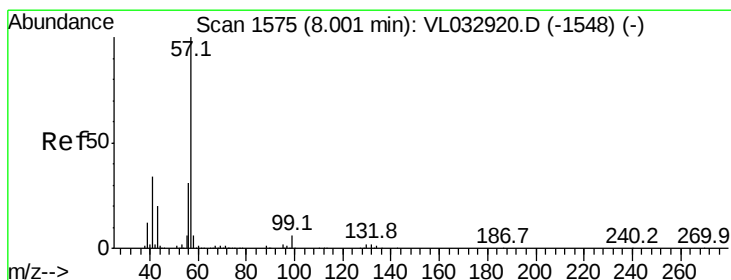
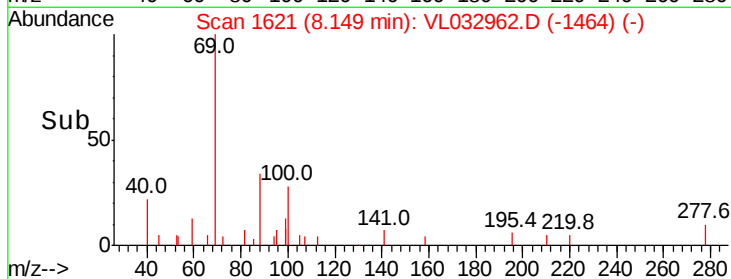
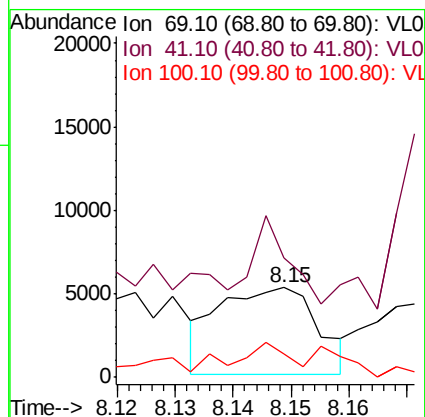
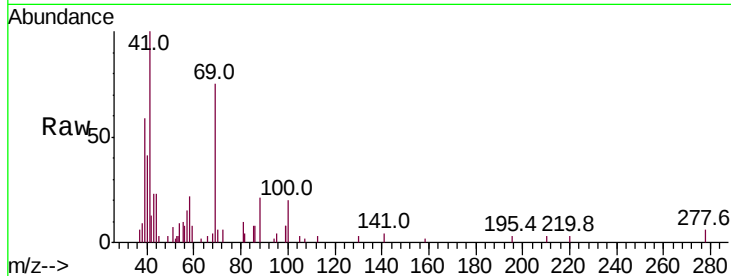
Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 6164

Ion	Ratio	Lower	Upper
69	100		
41	0.0	116.6	175.0#
100	0.0	26.5	39.7#



#44

2,2,4-Trimethylpentane

Concen: 2.595 ppbv

RT: 8.00 min Scan# 1574

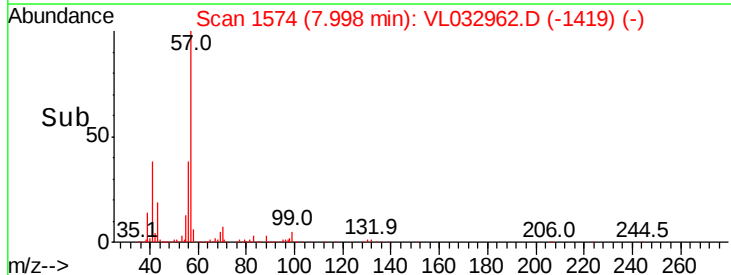
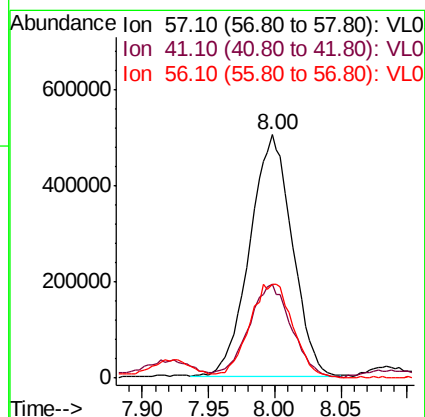
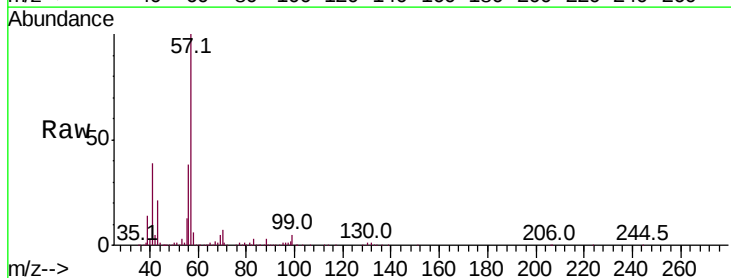
Delta R.T. -0.00 min

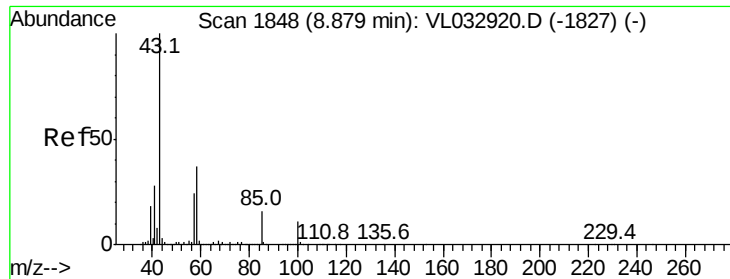
Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Tgt Ion: 57 Resp: 1112871

Ion	Ratio	Lower	Upper
57	100		
41	39.9	27.0	40.4
56	40.3	24.6	37.0#

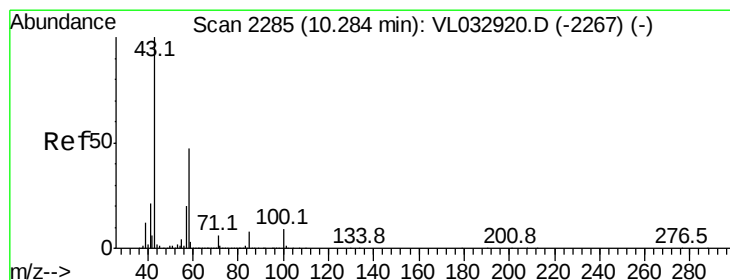
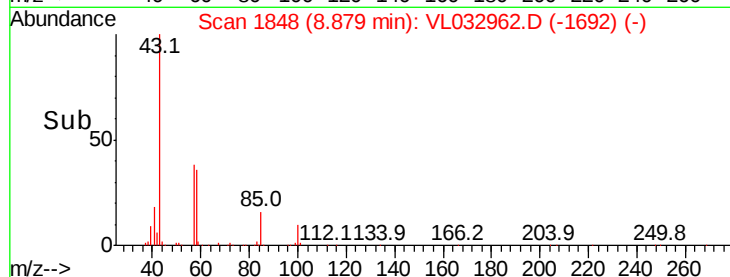
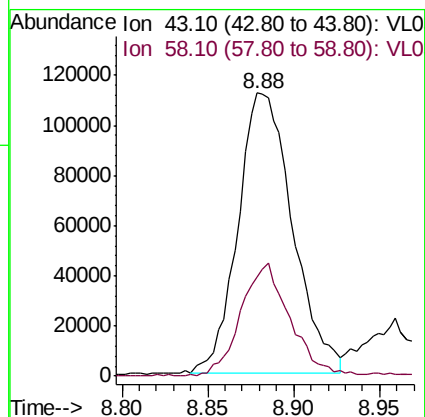
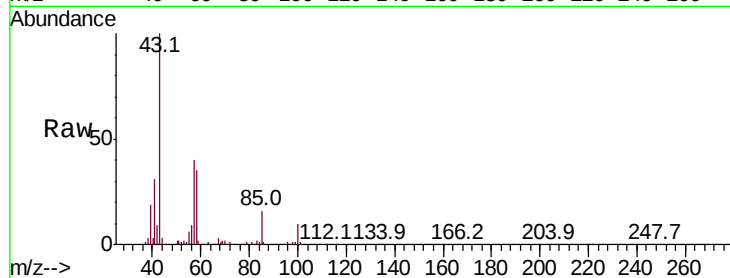




#50
4-Methyl-2-Pentanone
Concen: 1.028 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. 0.00 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

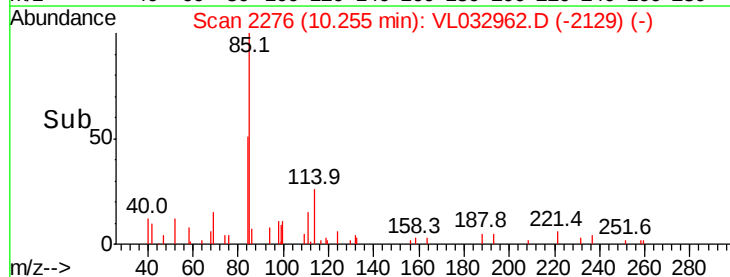
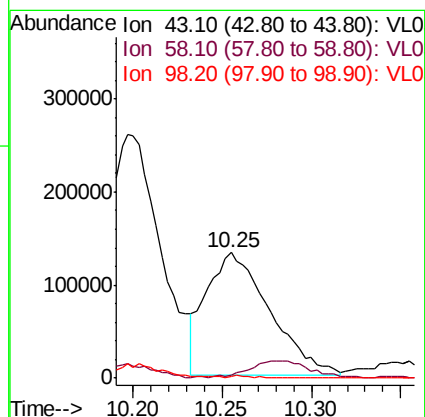
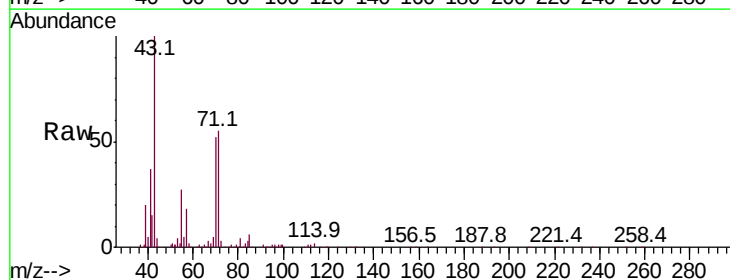
Instrument :
MSVOA_L
ClientSampleId :

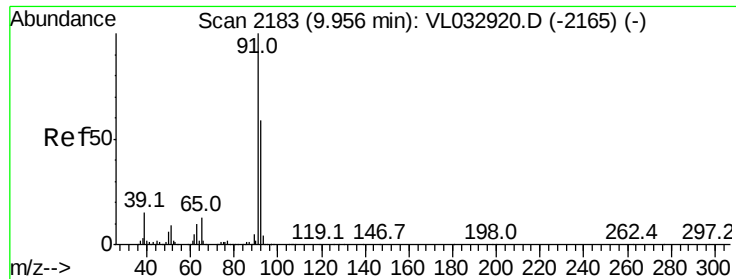
Tot Ion: 43 Resp: 245875
Ion Ratio Lower Upper
43 100
58 37.0 29.0 43.4



#51
2-Hexanone
Concen: 1.997 ppbv
RT: 10.25 min Scan# 2276
Delta R.T. -0.03 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

Tgt Ion: 43 Resp: 324123
Ion Ratio Lower Upper
43 100
58 13.4 38.1 57.1#
98 0.0 0.4 0.6#





#53

Toluene

Concen: 11.799 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

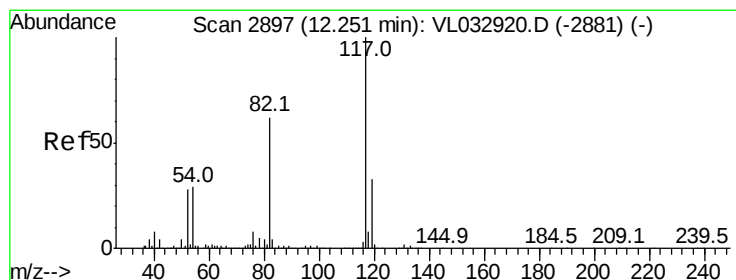
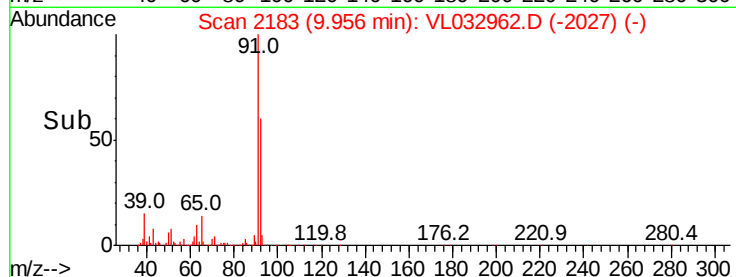
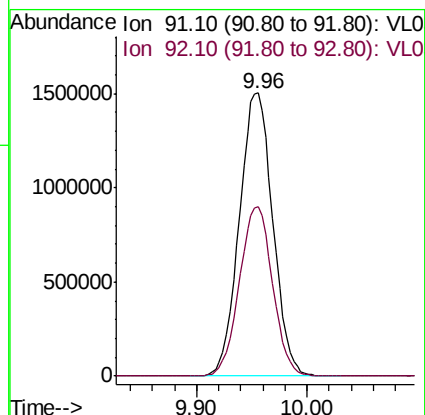
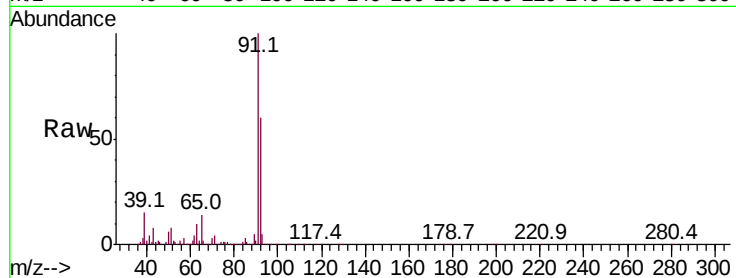
ClientSampleId :

Tot Ion: 91 Resp: 3161641

Ion Ratio Lower Upper

91 100

92 59.2 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.01 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

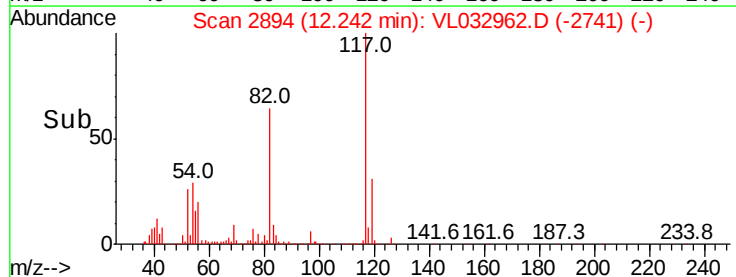
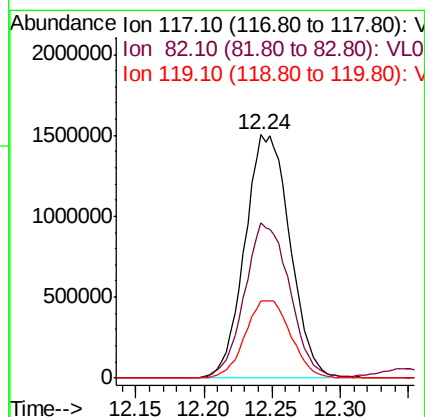
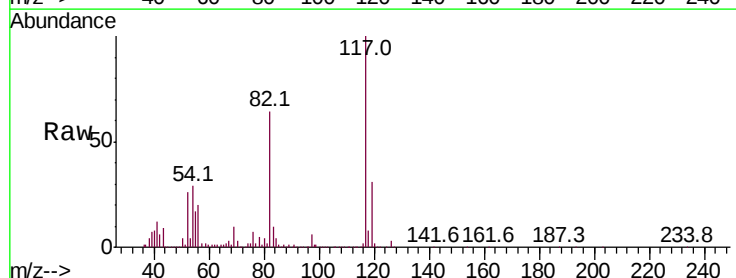
Tgt Ion: 117 Resp: 3452624

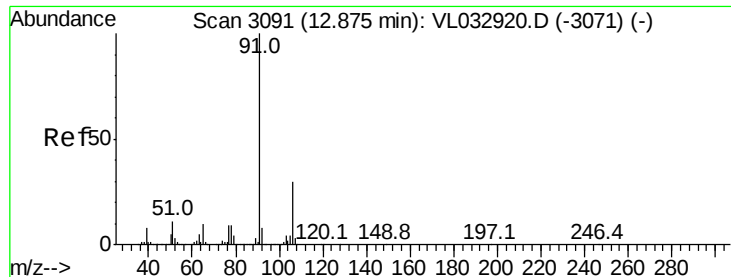
Ion Ratio Lower Upper

117 100

82 63.9 47.8 71.8

119 32.4 43.1 64.7#





#58

Ethyl Benzene

Concen: 1.470 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

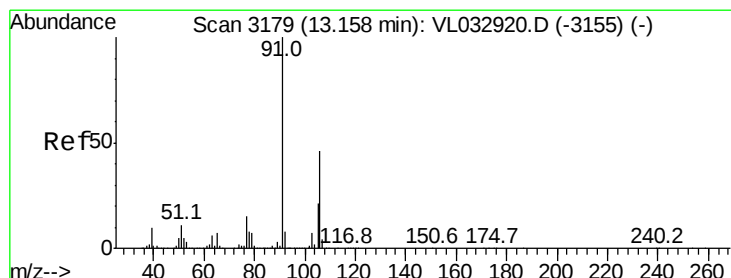
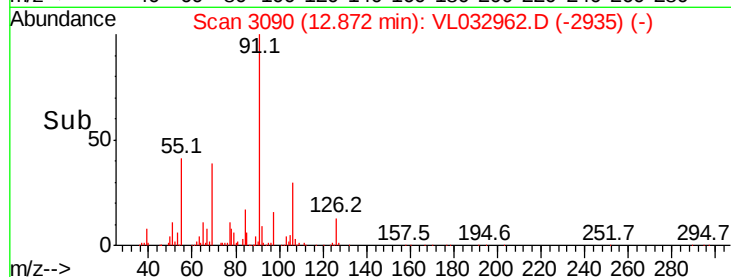
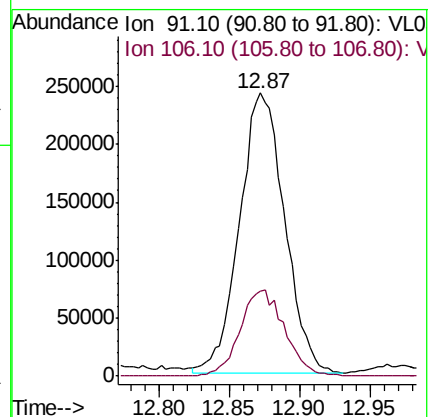
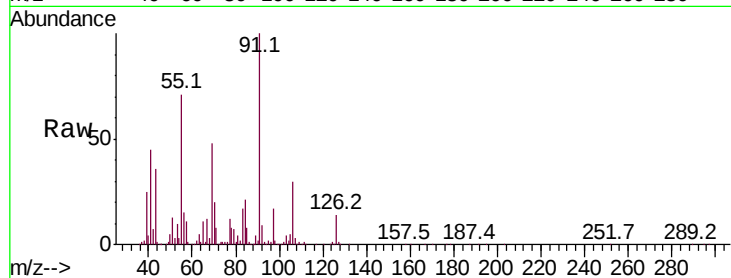
ClientSampleId :

Tot Ion: 91 Resp: 541349

Ion Ratio Lower Upper

91 100

106 30.2 23.9 35.9



#59

m/p-Xylene

Concen: 3.072 ppbv

RT: 13.14 min Scan# 3172

Delta R.T. -0.02 min

Lab File: VL032962.D

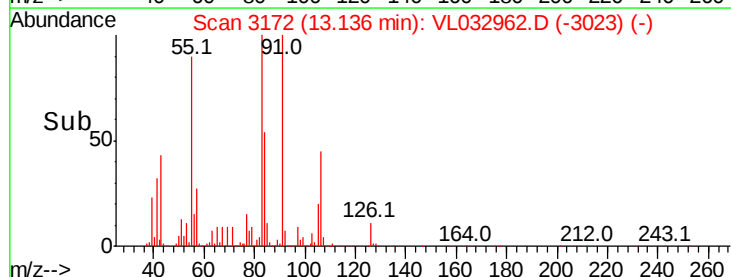
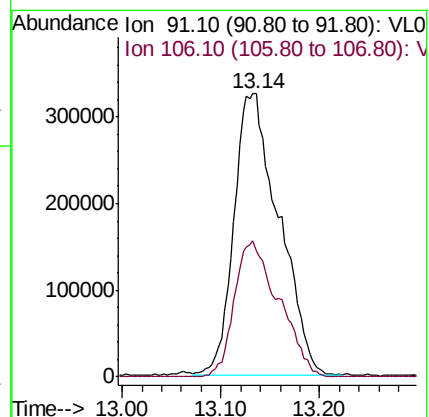
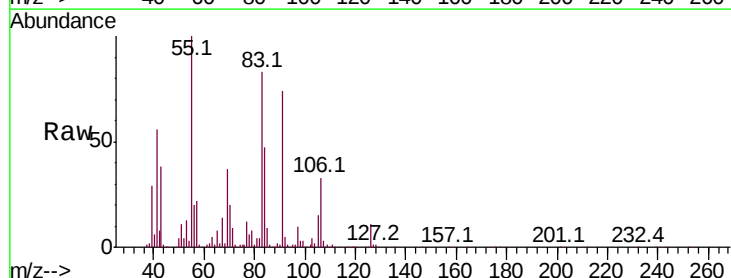
Acq: 11 Dec 2018 20:00

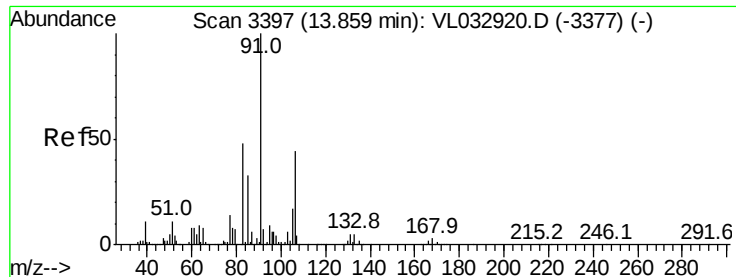
Tgt Ion: 91 Resp: 1025693

Ion Ratio Lower Upper

91 100

106 47.7 0.0 0.0#





#60

o-Xylene

Concen: 1.026 ppbv

RT: 13.86 min Scan# 3397

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

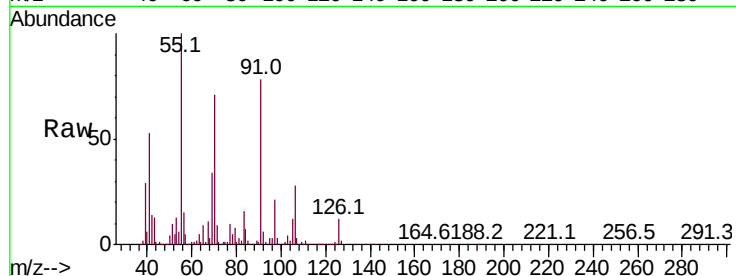
ClientSampleId :

Tot Ion: 91 Resp: 345934

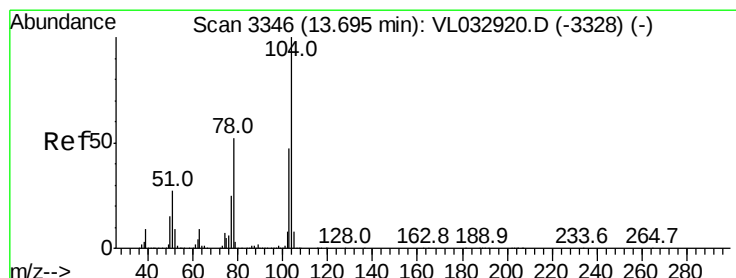
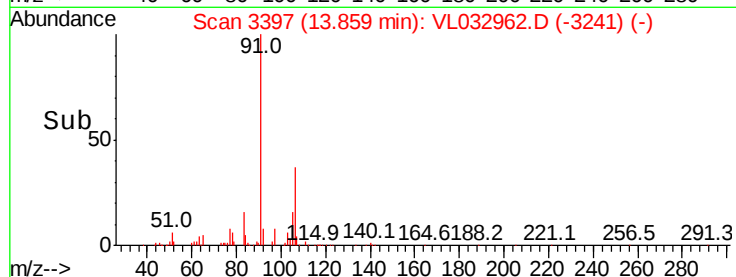
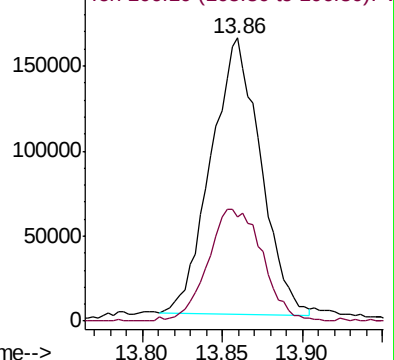
Ion Ratio Lower Upper

91 100

106 45.2 21.9 65.8



Abundance Ion 91.10 (90.80 to 91.80): VL032920.D (-3377) (-)



#61

Styrene

Concen: 1.095 ppbv

RT: 13.70 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

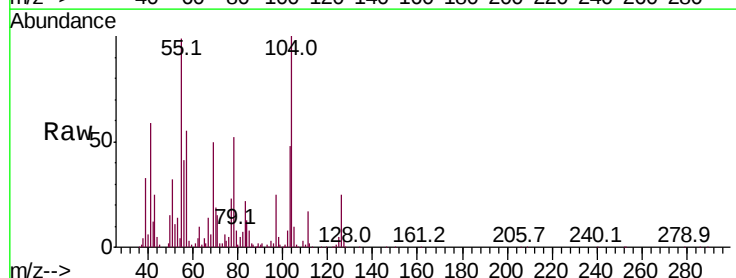
Tgt Ion: 104 Resp: 245521

Ion Ratio Lower Upper

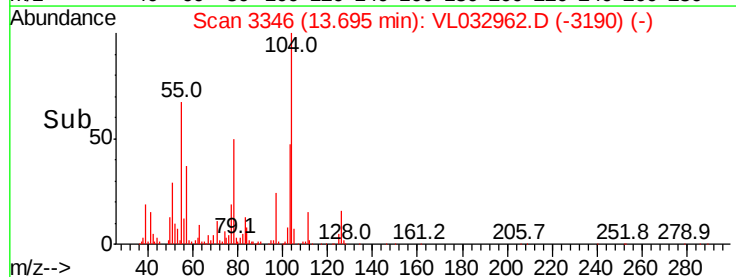
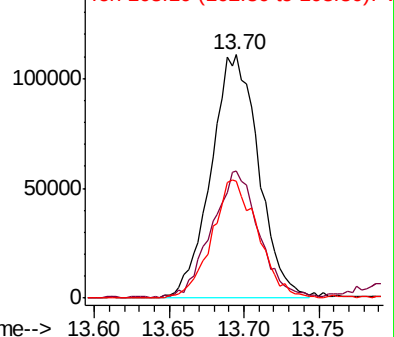
104 100

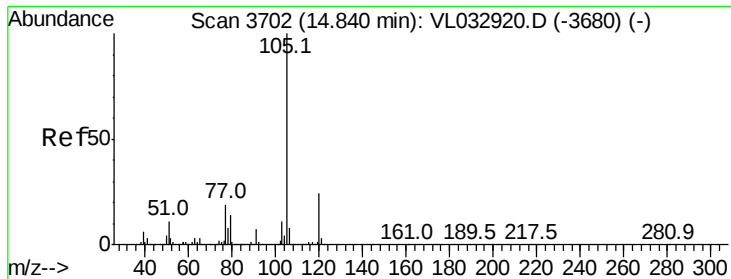
78 51.1 42.0 63.0

103 47.1 38.3 57.5



Abundance Ion 104.10 (103.80 to 104.80): VL032920.D (-3328) (-)





#62

Isopropylbenzene

Concen: 28.921 ppbv

RT: 14.84 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

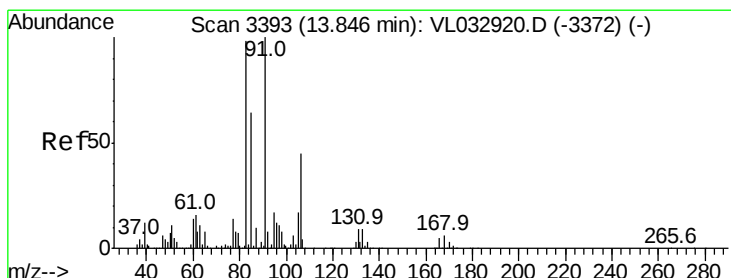
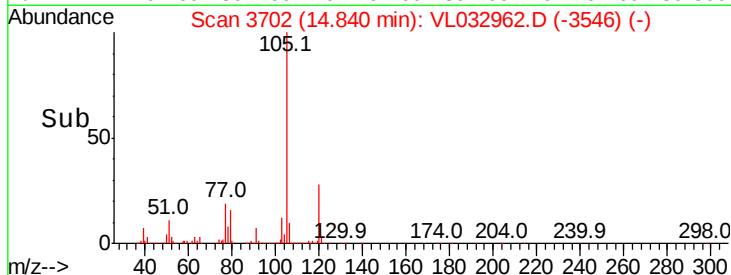
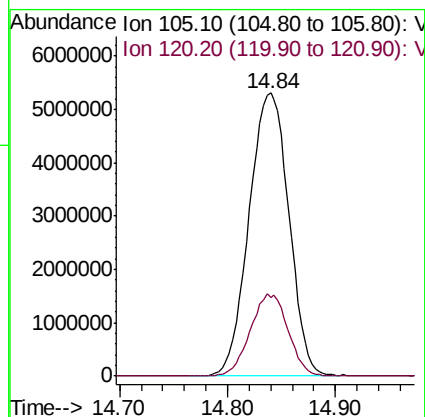
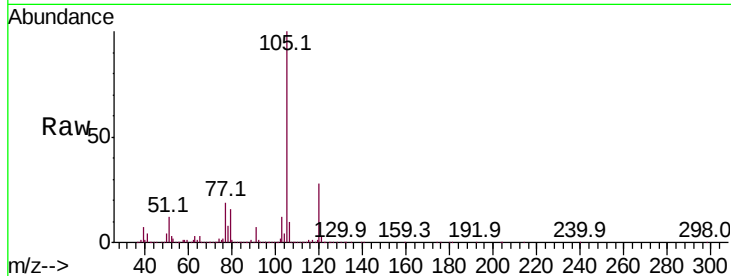
ClientSampleId :

Tot Ion:105 Resp:13607015

Ion Ratio Lower Upper

105 100

120 27.5 20.3 30.5



#63

1,1,2,2-Tetrachloroethane

Concen: 0.072 ppbv

RT: 13.83 min Scan# 3388

Delta R.T. -0.02 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

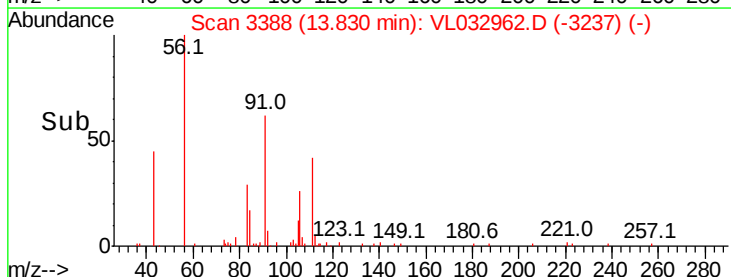
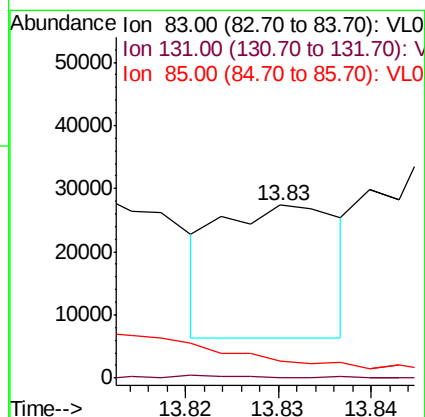
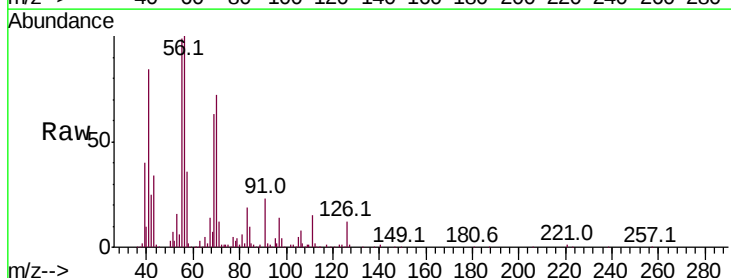
Tgt Ion: 83 Resp: 18921

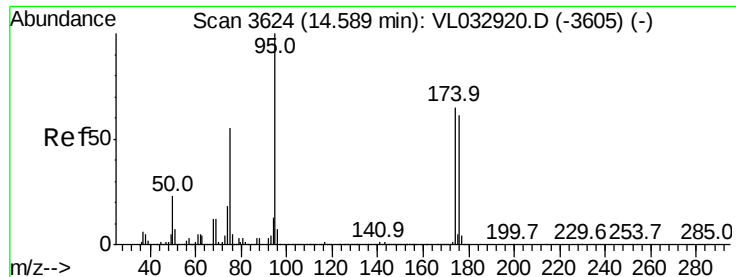
Ion Ratio Lower Upper

83 100

131 1.5 4.9 14.6#

85 0.0 32.9 98.6#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.355 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

ClientSampleId :

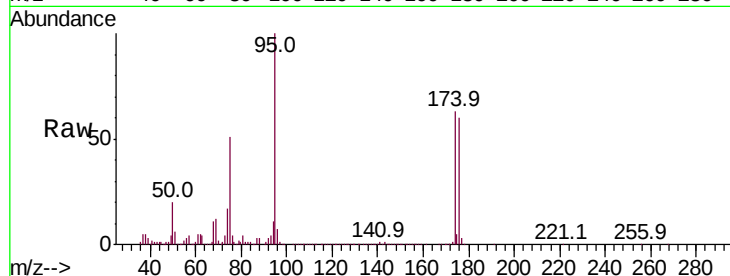
Tot Ion: 95 Resp: 2641341

Ion Ratio Lower Upper

95 100

174 63.6 51.4 77.0

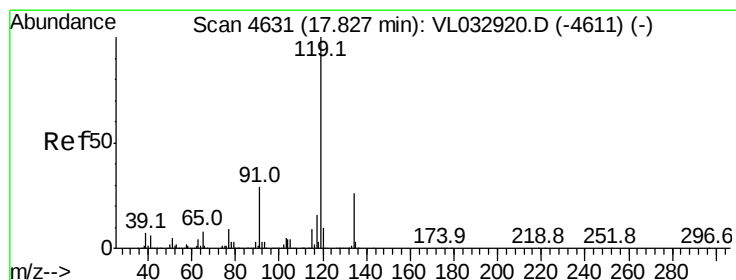
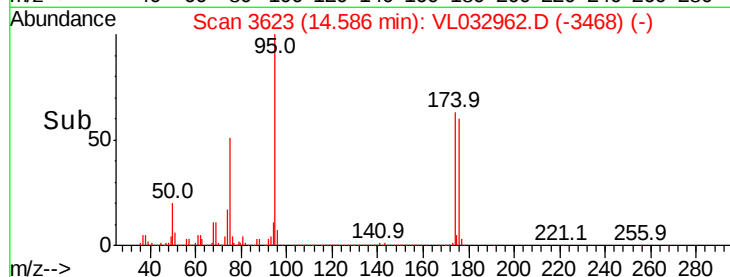
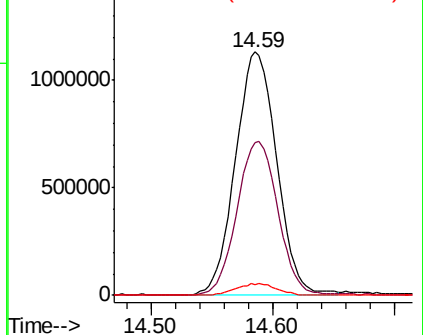
175 4.9 3.8 5.6



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: 0.066 ppbv

RT: 17.83 min Scan# 4631

Delta R.T. 0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

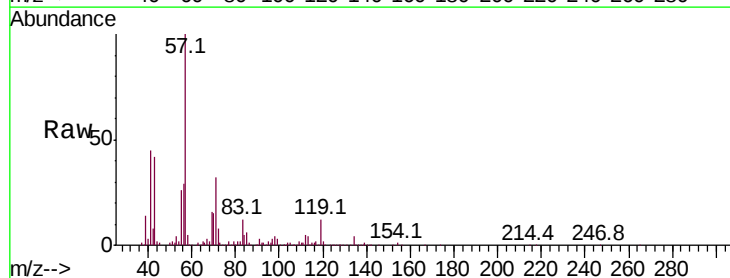
Tgt Ion: 119 Resp: 34586

Ion Ratio Lower Upper

119 100

134 51.3 20.2 30.2#

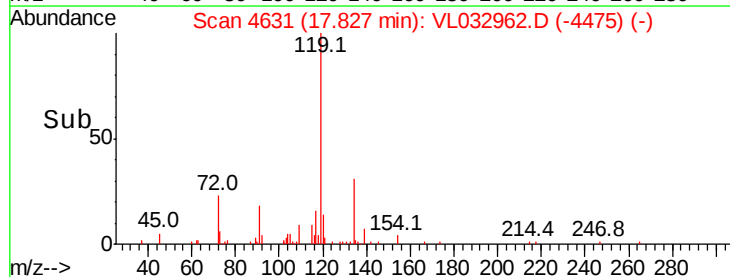
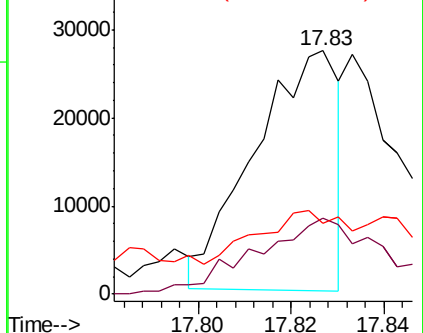
91 65.9 22.9 34.3#

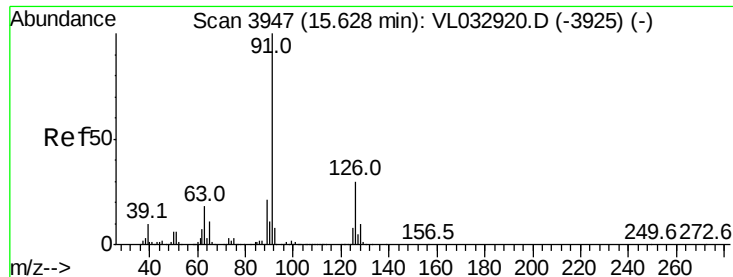


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

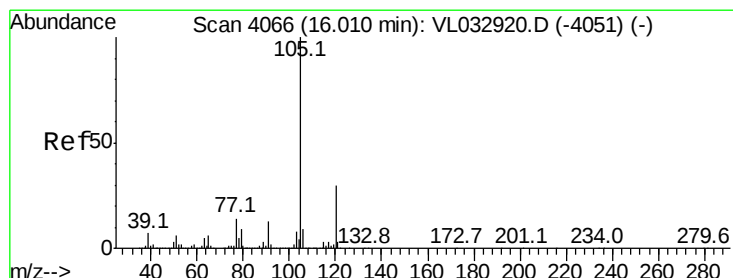
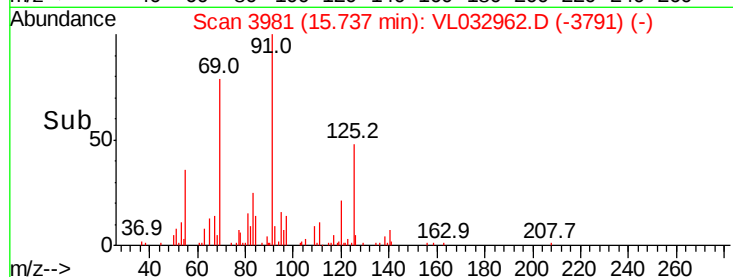
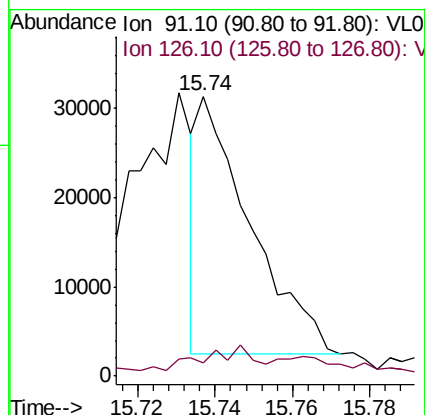
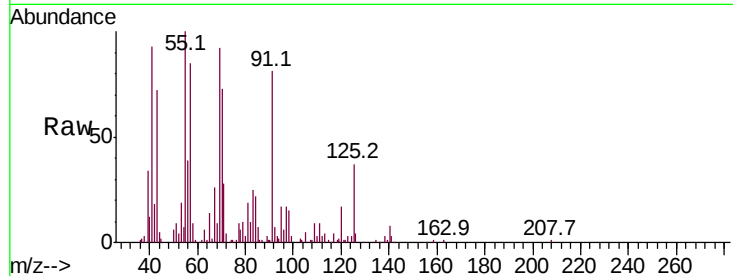




#71
2-Chlorotoluene
Concen: 0.077 ppbv
RT: 15.74 min Scan# 3981
Delta R.T. 0.11 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

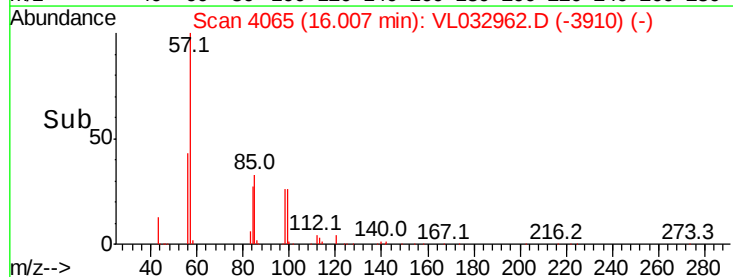
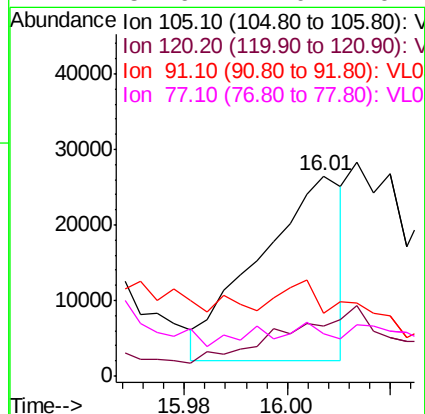
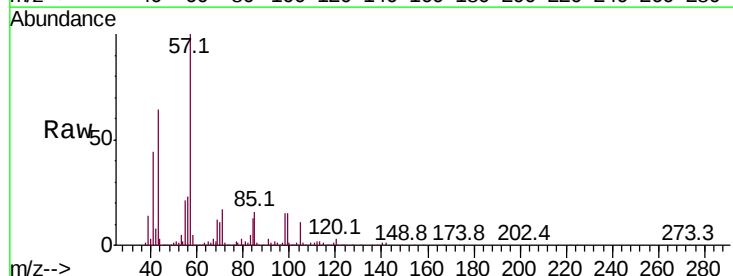
Instrument :
MSVOA_L
ClientSampleId :

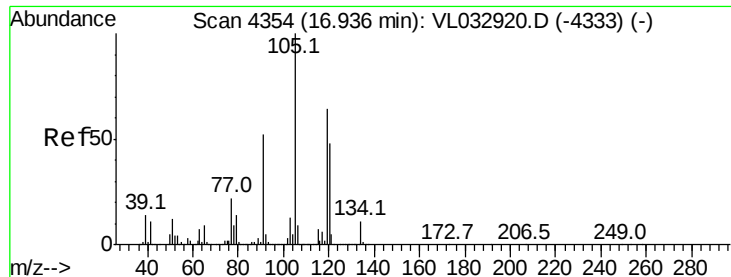
Tot Ion: 91 Resp: 26884
Ion Ratio Lower Upper
91 100
126 15.1 12.3 49.3



#72
4-Ethyltoluene
Concen: 0.073 ppbv
RT: 16.01 min Scan# 4065
Delta R.T. -0.00 min
Lab File: VL032962.D
Acq: 11 Dec 2018 20:00

Tgt Ion: 105 Resp: 27507
Ion Ratio Lower Upper
105 100
120 0.0 23.0 34.4#
91 77.3 10.4 15.6#
77 57.6 11.0 16.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.332 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL032962.D

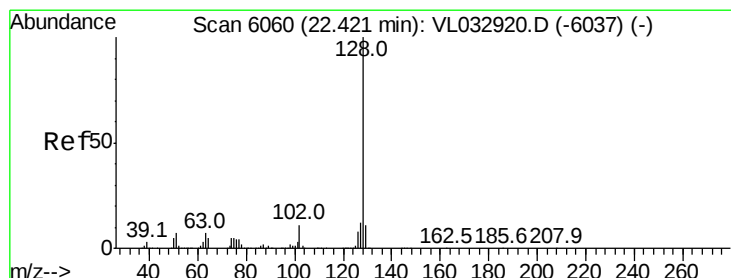
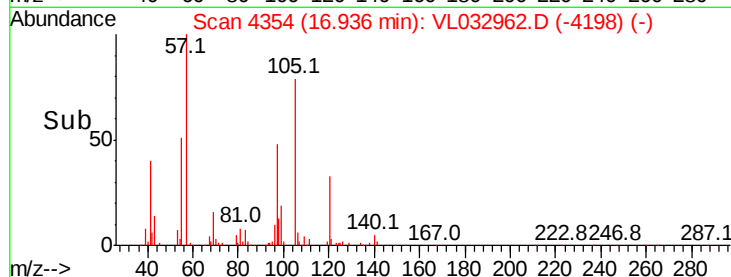
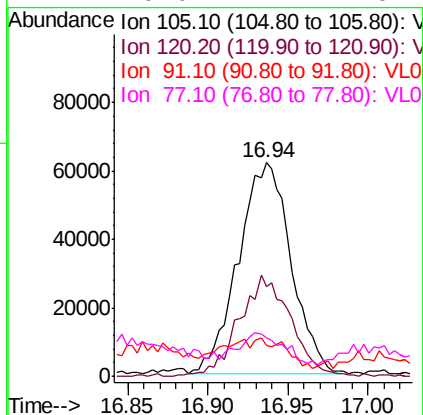
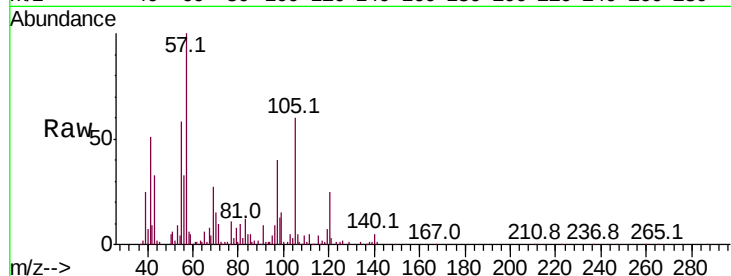
Acq: 11 Dec 2018 20:00

Instrument :

MSVOA_L

ClientSampled :

Tot Ion:	105	Resp:	137839
Ion	Ratio	Lower	Upper
105	100		
120	41.3	38.6	58.0
91	7.7	41.7	62.5#
77	9.0	17.4	26.2#



#79

Naphthalene

Concen: 0.038 ppbv

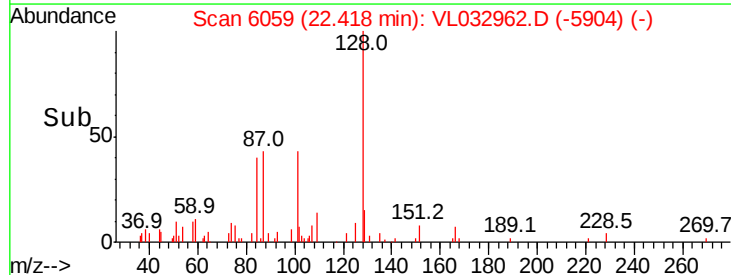
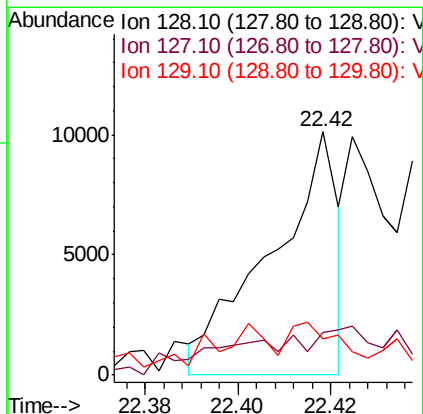
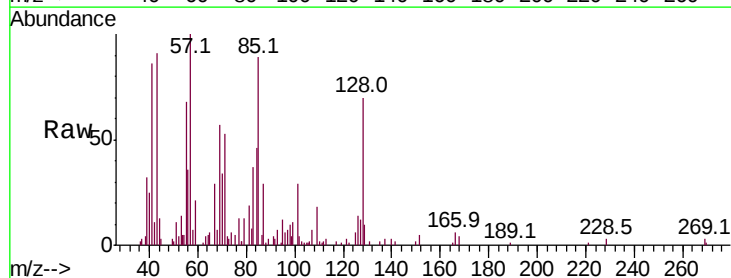
RT: 22.42 min Scan# 6059

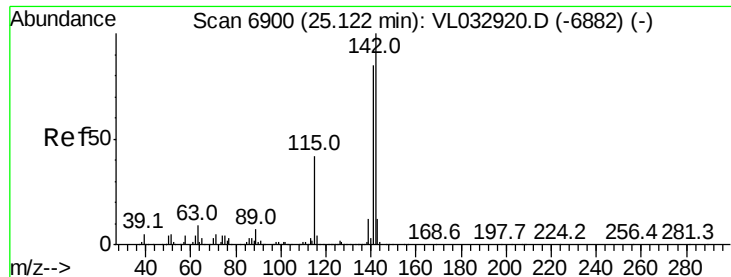
Delta R.T. -0.00 min

Lab File: VL032962.D

Acq: 11 Dec 2018 20:00

Tgt Ion:	128	Resp:	10101
Ion	Ratio	Lower	Upper
128	100		
127	12.5	9.9	14.9
129	12.8	8.6	13.0





#80
 Naphthalene, 2-methyl-
 Concen: 0.038 ppbv
 RT: 25.12 min Scan# 6900
 Delta R.T. 0.00 min
 Lab File: VL032962.D
 Acq: 11 Dec 2018 20:00

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
141	109.2	68.2	102.2#
115	55.0	35.1	52.7#

