

Data File : VL033382.D
Acq On : 19 Mar 2019 8:30
Operator : SY/AP
Sample : K1805-07DL2 40X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ST-SS-3DL

Quant Time: Mar 19 09:00:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 14:52:14 2019
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	735295	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.28	114	1644084	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.24	117	1750342	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1439400	11.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.00%

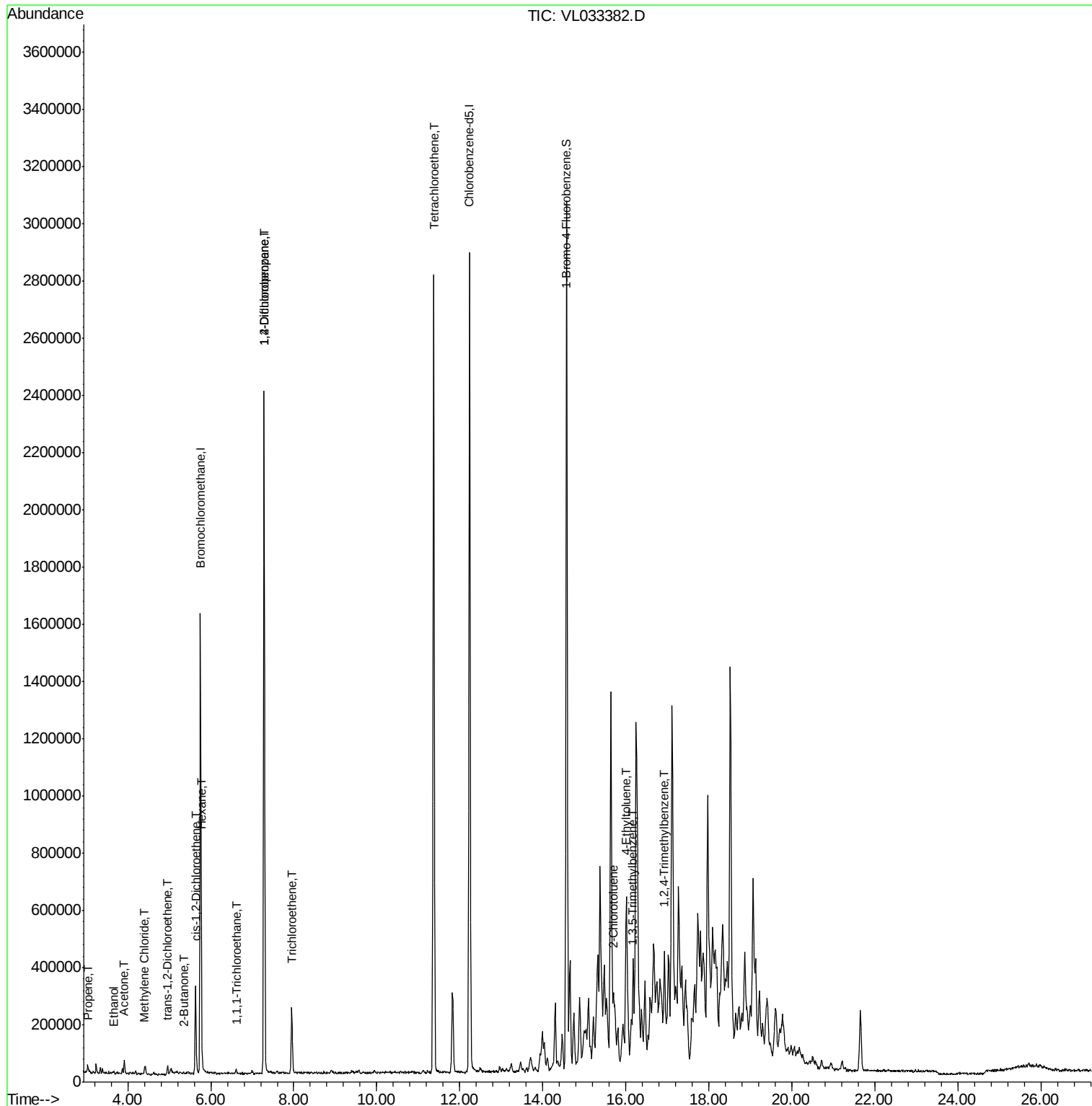
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Propene	3.03	41	3277	0.087	ppbv #	15
13) Ethanol	3.66	45	2613	0.145	ppbv	100
15) Acetone	3.91	43	36932	0.323	ppbv	96
20) Methylene Chloride	4.41	84	7037	0.189	ppbv #	72
22) trans-1,2-Dichloroethene	4.95	96	4463	0.118	ppbv #	82
26) Hexane	5.78	57	4532	0.061	ppbv #	32
31) cis-1,2-Dichloroethene	5.63	61	173244	2.333	ppbv	98
32) 1,1,1-Trichloroethane	6.61	97	4955	0.041	ppbv #	63
34) 2-Butanone	5.35	43	5467	0.051	ppbv #	89
38) Trichloroethene	7.95	130	35828	0.643	ppbv	89
39) 1,2-Dichloropropane	7.28	63	432647	7.852	ppbv #	24
52) Tetrachloroethene	11.37	164	685010	11.175	ppbv	99
71) 2-Chlorotoluene	15.71	91	17109	0.076	ppbv	94
72) 4-Ethyltoluene	16.00	105	14248	0.060	ppbv #	89
73) 1,3,5-Trimethylbenzene	16.15	105	21312	0.093	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.92	105	22607	0.093	ppbv #	74

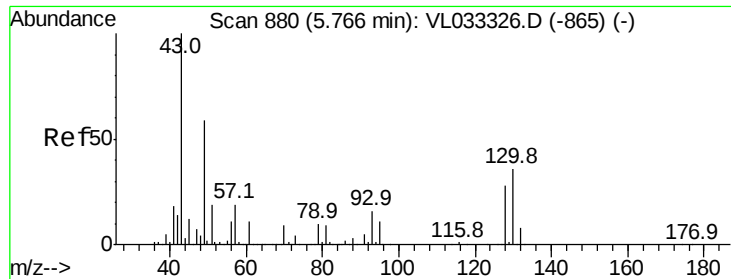
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-3DL

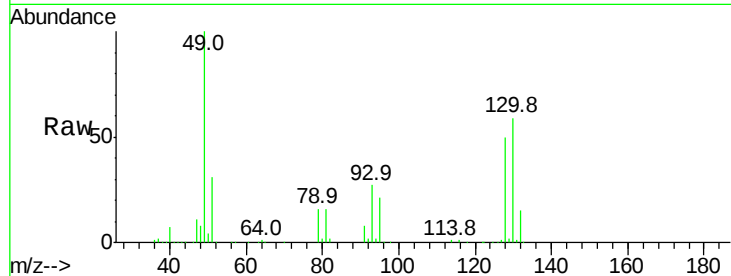
Tgt Ion: 49 Resp: 735295

Ion Ratio Lower Upper

49 100

128 47.9 23.5 70.6

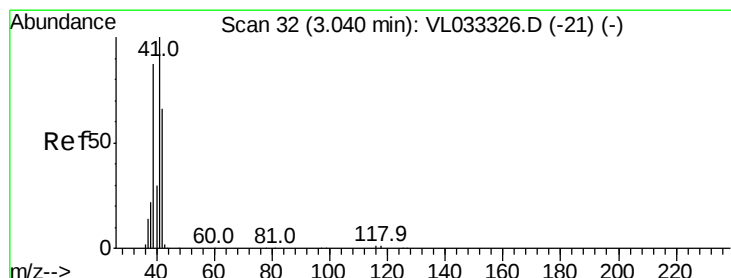
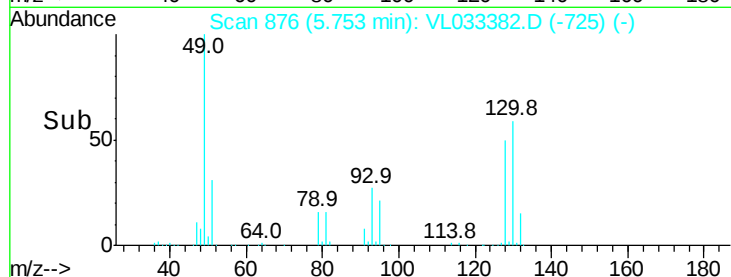
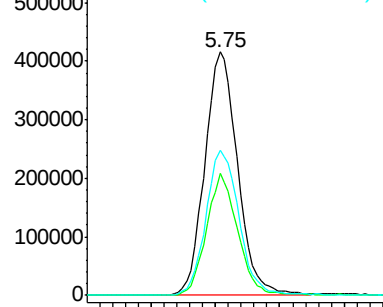
130 60.3 30.1 90.3



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



#9

Propene

Concen: 0.087 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033382.D

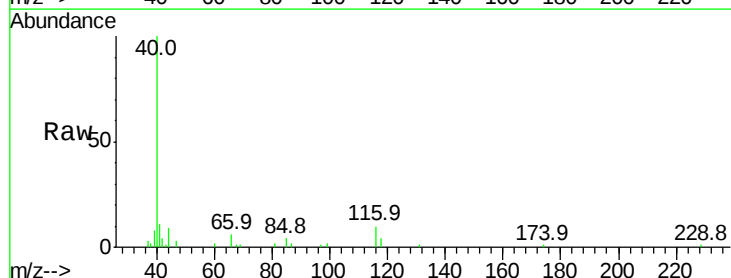
Acq: 19 Mar 2019 8:30

Tgt Ion: 41 Resp: 3277

Ion Ratio Lower Upper

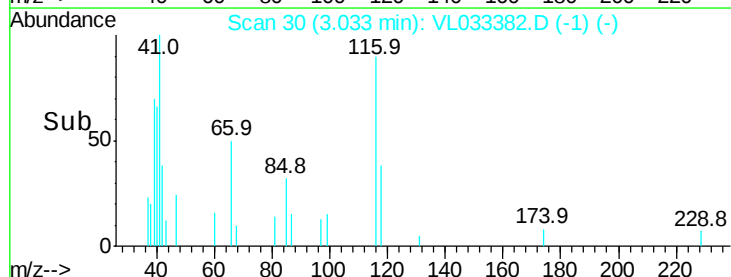
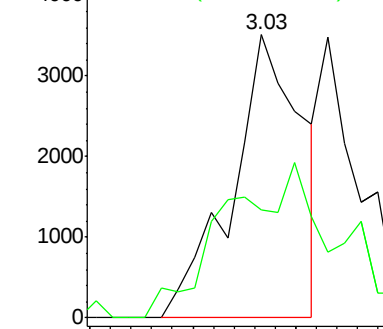
41 100

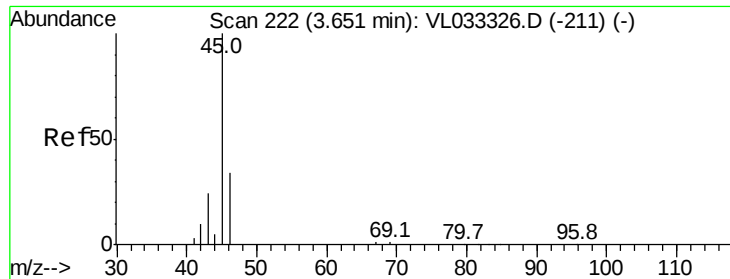
42 0.0 55.2 82.8#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 0.145 ppbv

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Instrument :

MSVOA_L

ClientSampleId :

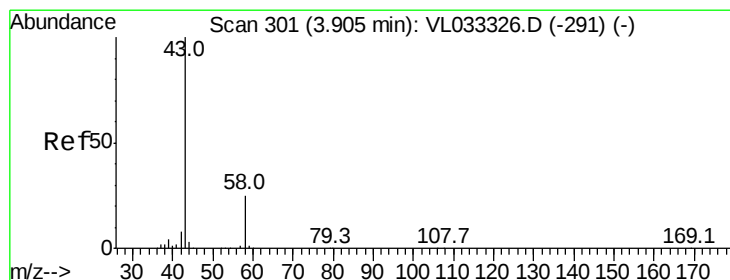
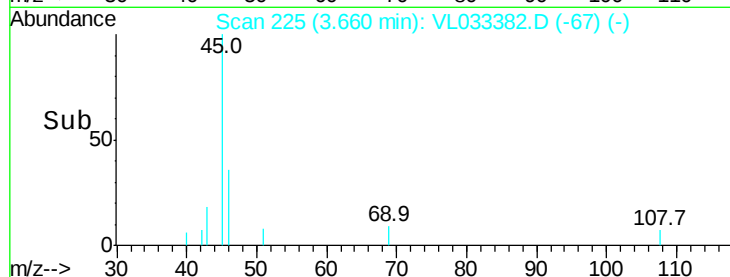
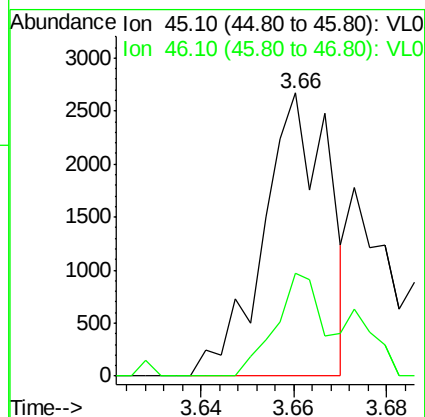
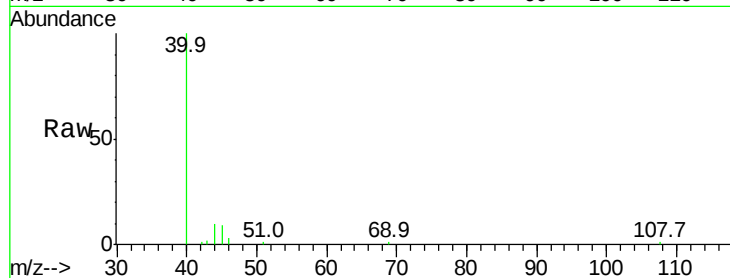
ST-SS-3DL

Tgt Ion: 45 Resp: 2613

Ion Ratio Lower Upper

45 100

46 37.3 14.9 59.7



#15

Acetone

Concen: 0.323 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033382.D

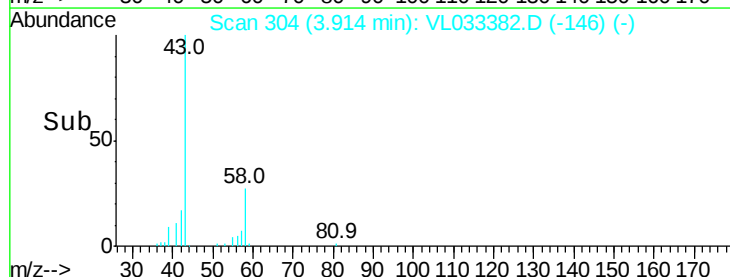
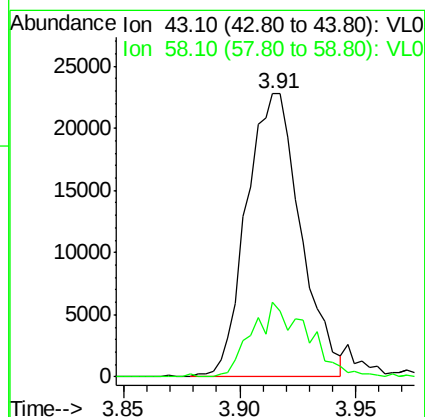
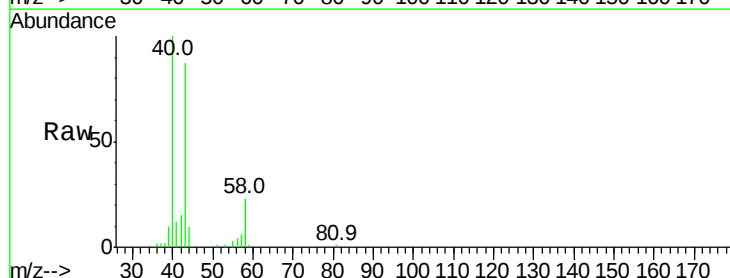
Acq: 19 Mar 2019 8:30

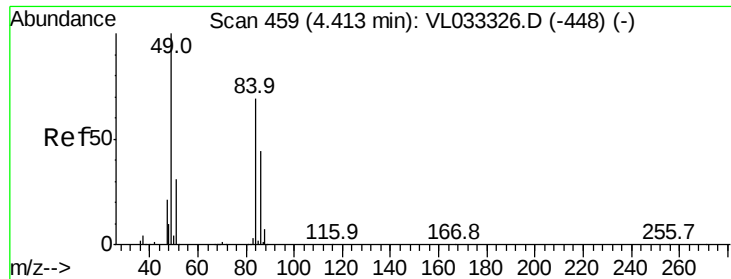
Tgt Ion: 43 Resp: 36932

Ion Ratio Lower Upper

43 100

58 27.7 20.4 30.6





#20

Methylene Chloride

Concen: 0.189 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-3DL

Tgt Ion: 84 Resp: 7037

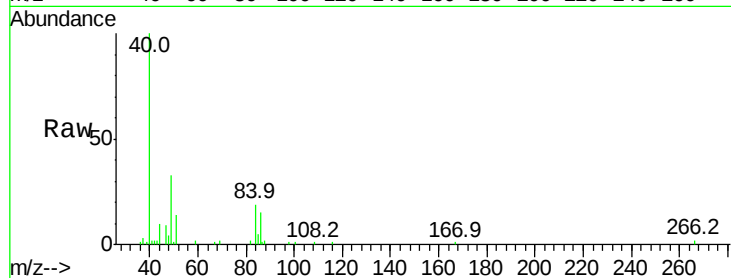
Ion Ratio Lower Upper

84 100

49 177.1 115.4 173.0#

51 74.2 35.8 53.6#

86 78.5 50.6 75.8#

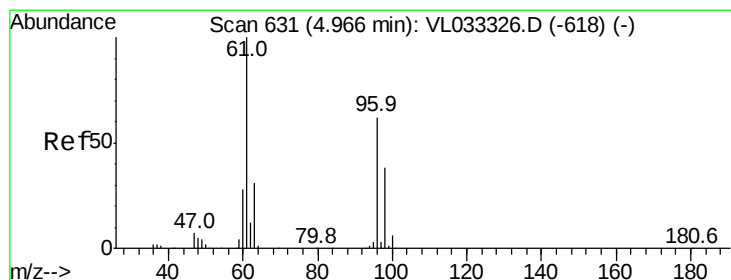
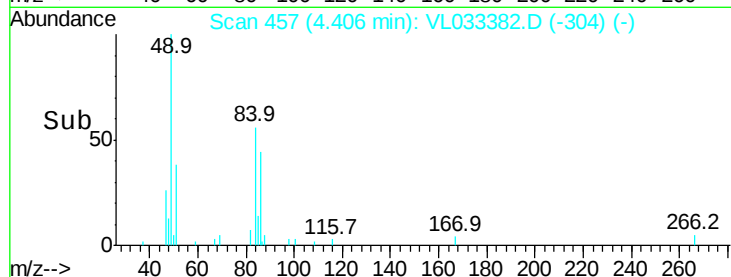
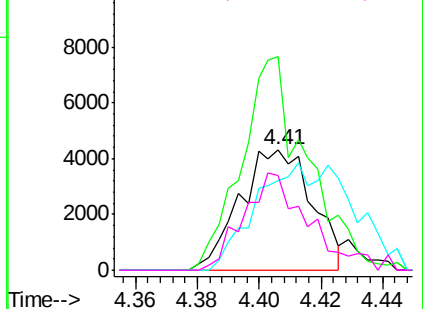


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.118 ppbv

RT: 4.95 min Scan# 627

Delta R.T. -0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

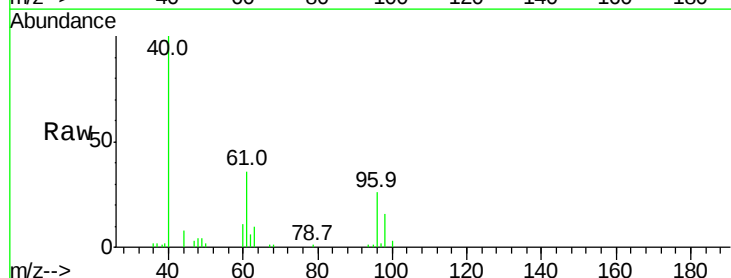
Tgt Ion: 96 Resp: 4463

Ion Ratio Lower Upper

96 100

61 128.5 130.0 195.0#

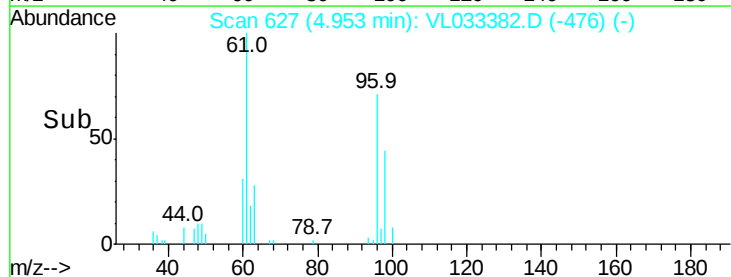
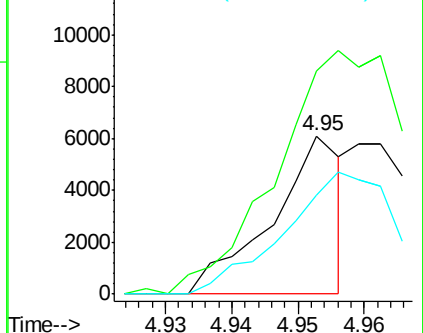
98 62.3 50.0 75.0

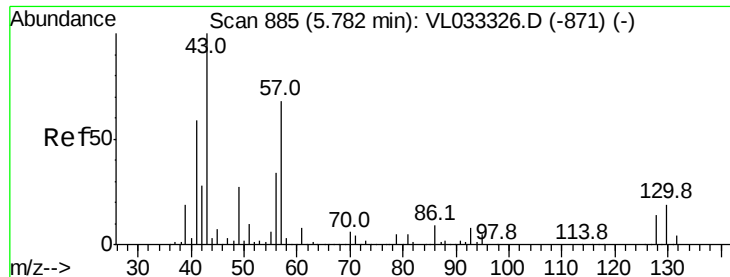


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

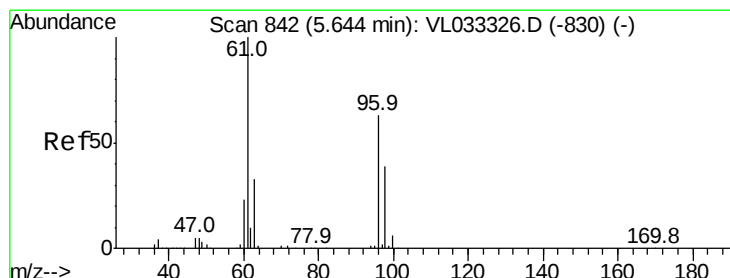
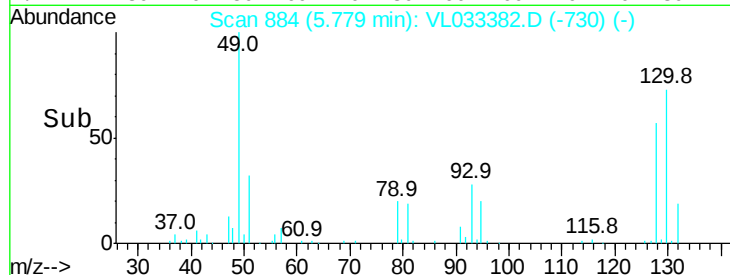
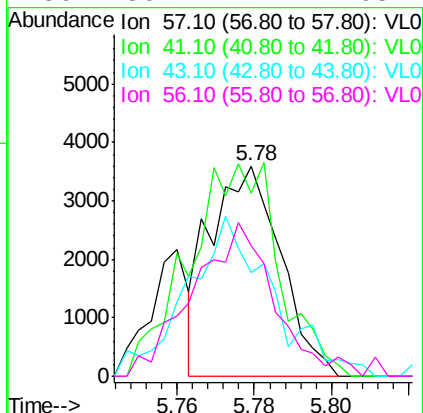
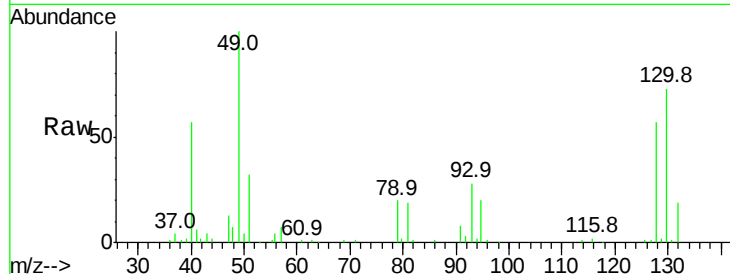




#26
Hexane
Concen: 0.061 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033382.D
Acq: 19 Mar 2019 8:30

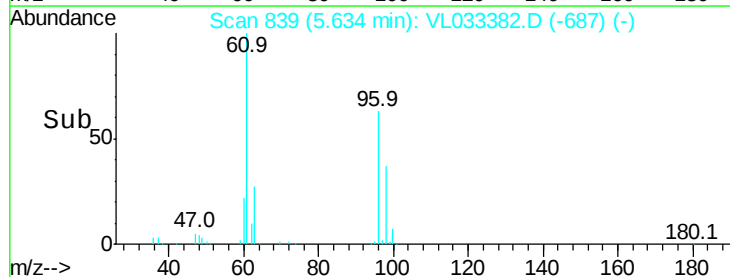
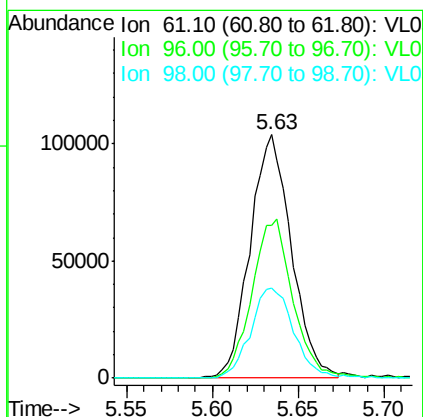
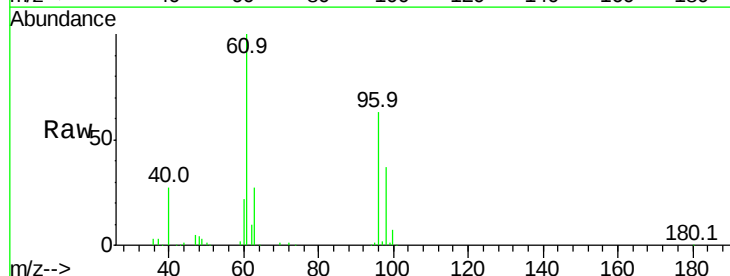
Instrument :
MSVOA_L
ClientSampleId :
ST-SS-3DL

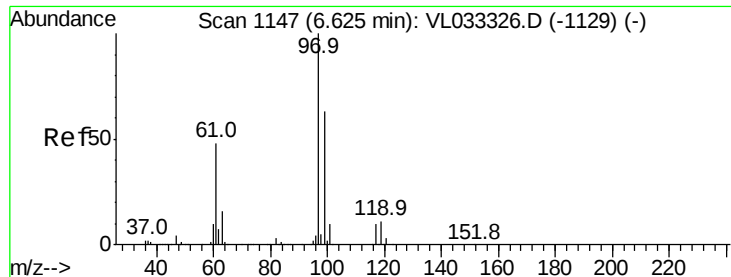
Tgt Ion: 57 Resp: 4532
Ion Ratio Lower Upper
57 100
41 131.6 70.5 105.7#
43 95.4 181.8 272.8#
56 86.1 42.2 63.2#



#31
cis-1,2-Dichloroethene
Concen: 2.333 ppbv
RT: 5.63 min Scan# 839
Delta R.T. -0.01 min
Lab File: VL033382.D
Acq: 19 Mar 2019 8:30

Tgt Ion: 61 Resp: 173244
Ion Ratio Lower Upper
61 100
96 62.9 50.3 75.5
98 37.0 31.5 47.3





#32

1,1,1-Trichloroethane

Concen: 0.041 ppbv

RT: 6.61 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Instrument :

MSVOA_L

ClientSampleId :

ST-SS-3DL

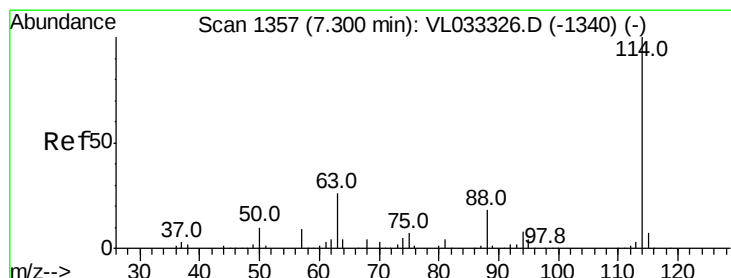
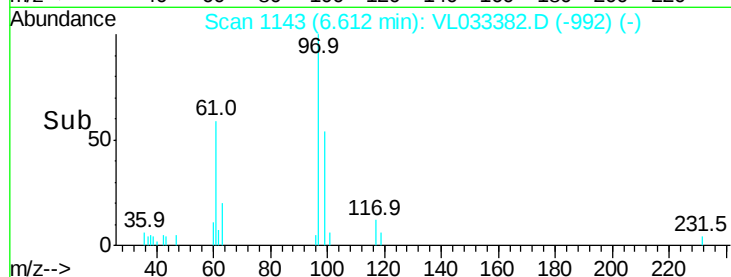
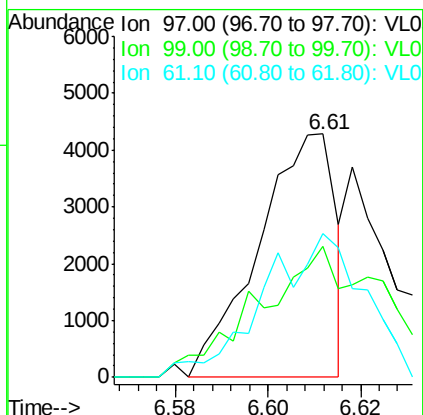
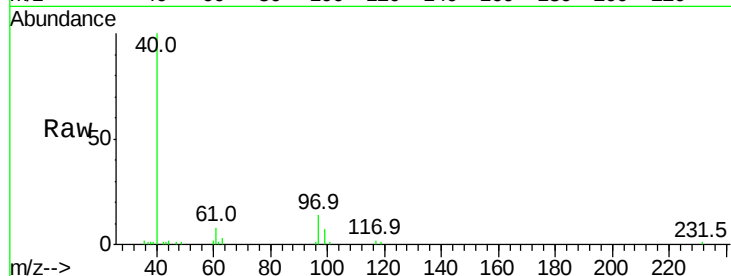
Tgt Ion: 97 Resp: 4955

Ion Ratio Lower Upper

97 100

99 86.6 51.0 76.6#

61 80.8 39.3 58.9#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.02 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

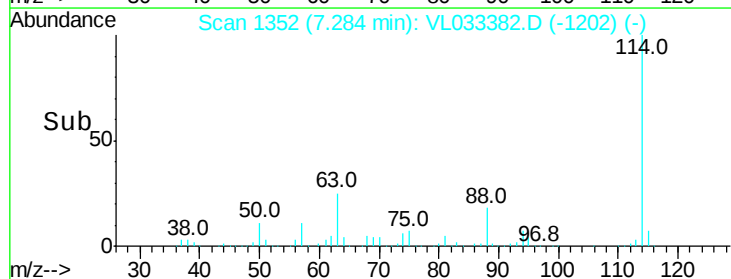
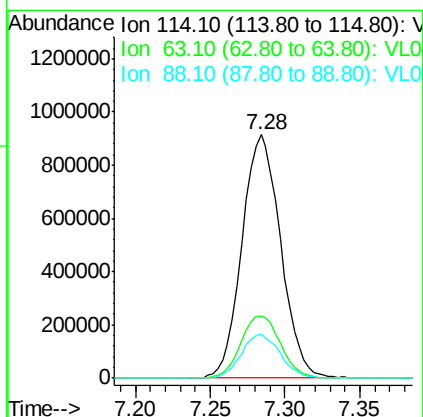
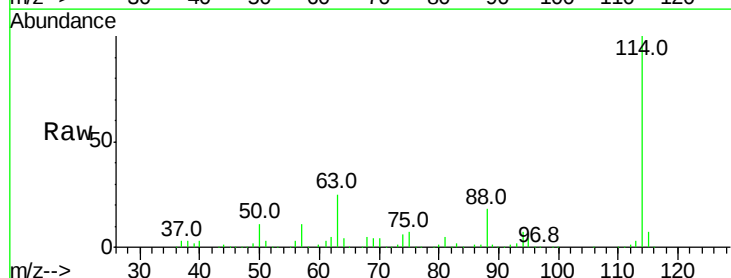
Tgt Ion: 114 Resp: 1644084

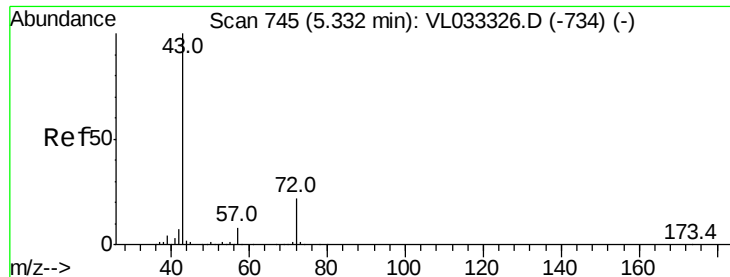
Ion Ratio Lower Upper

114 100

63 26.4 21.4 32.2

88 18.2 14.5 21.7





#34

2-Butanone

Concen: 0.051 ppbv

RT: 5.35 min Scan# 751

Delta R.T. 0.02 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Instrument :

MSVOA_L

ClientSampleId :

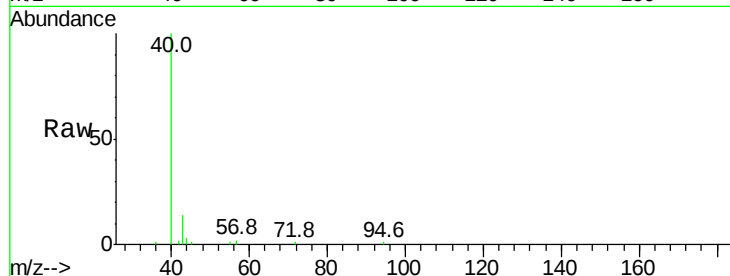
ST-SS-3DL

Tgt Ion: 43 Resp: 5467

Ion Ratio Lower Upper

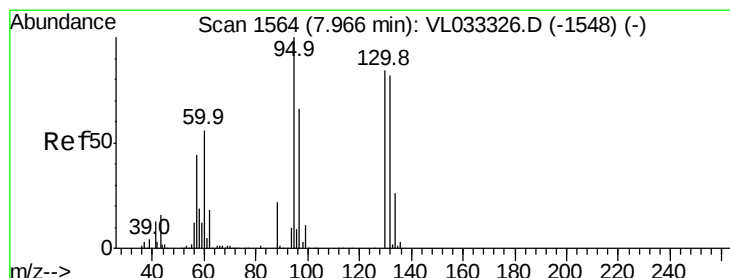
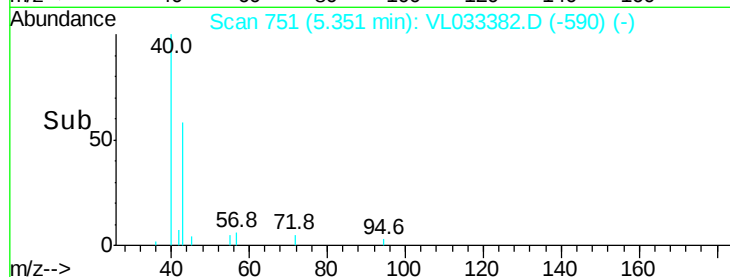
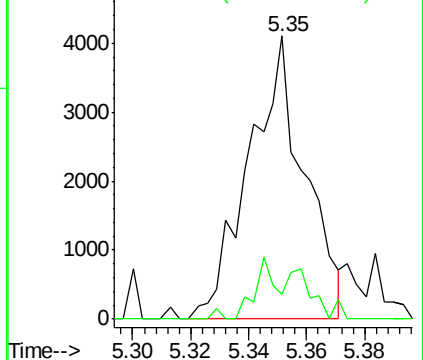
43 100

72 17.0 17.7 26.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#38

Trichloroethene

Concen: 0.643 ppbv

RT: 7.95 min Scan# 1559

Delta R.T. -0.02 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Tgt Ion: 130 Resp: 35828

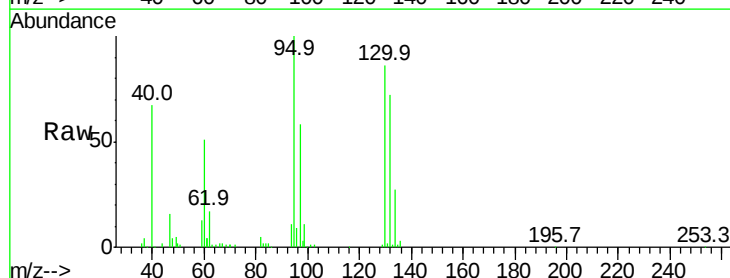
Ion Ratio Lower Upper

130 100

95 113.3 95.2 142.8

132 82.5 77.7 116.5

97 65.6 62.8 94.2

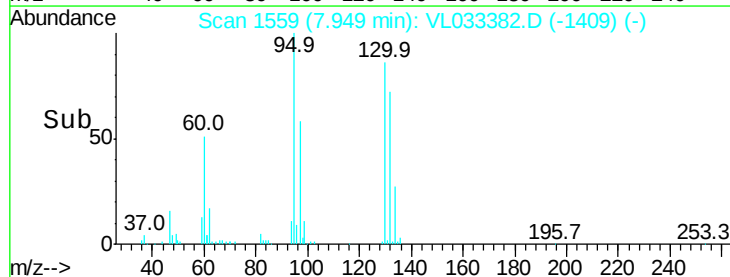
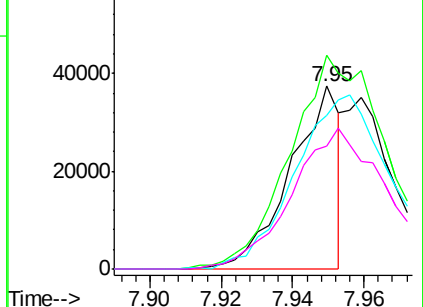


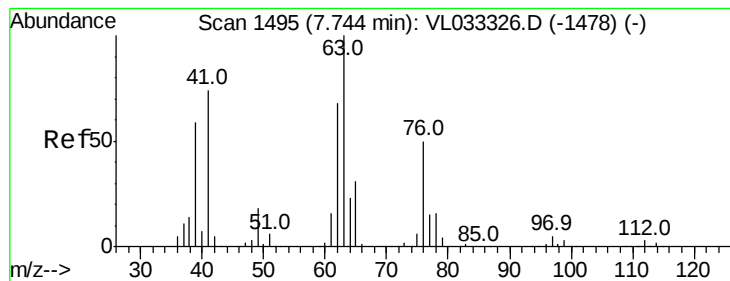
Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.852 ppbv

RT: 7.28 min Scan# 1351

Delta R.T. -0.46 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Instrument :

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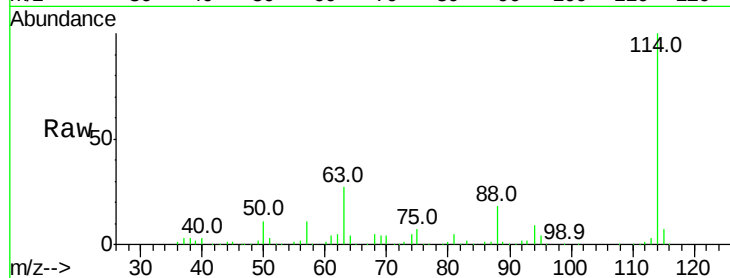
Tgt Ion: 63 Resp: 432647

Ion Ratio Lower Upper

63 100

41 0.1 59.5 89.3#

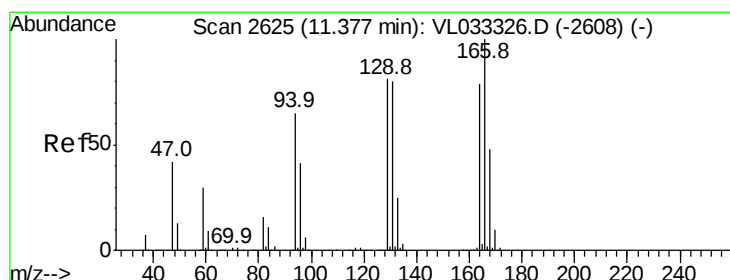
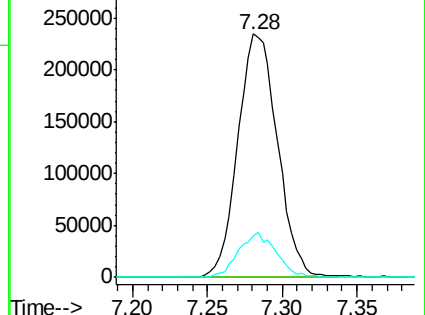
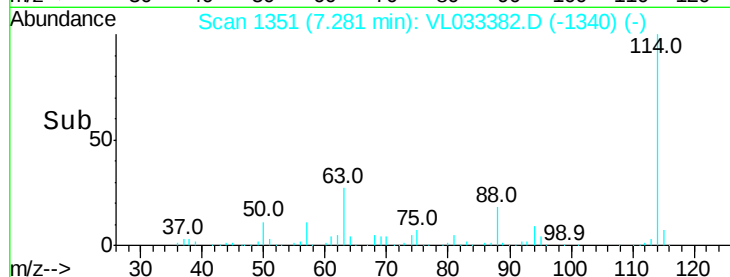
62 16.8 54.7 82.1#



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



#52

Tetrachloroethene

Concen: 11.175 ppbv

RT: 11.37 min Scan# 2623

Delta R.T. -0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Tgt Ion: 164 Resp: 685010

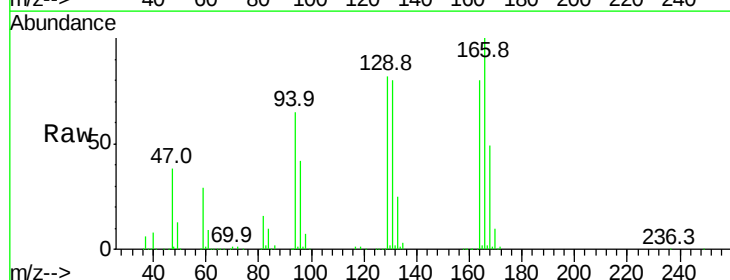
Ion Ratio Lower Upper

164 100

166 125.1 101.5 152.3

129 102.7 82.2 123.2

131 100.5 81.1 121.7

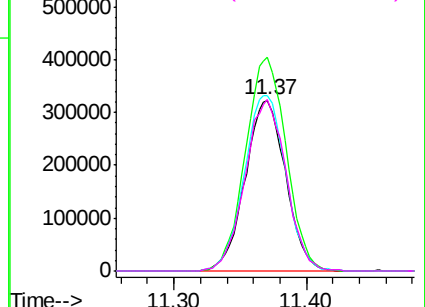
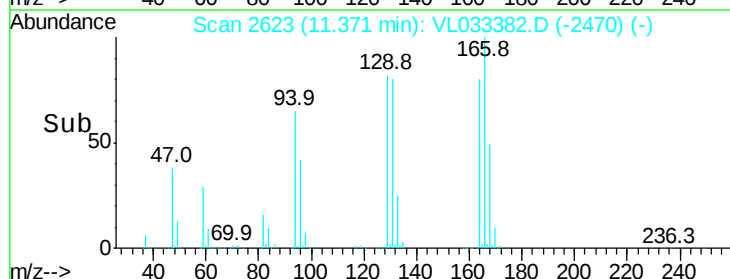


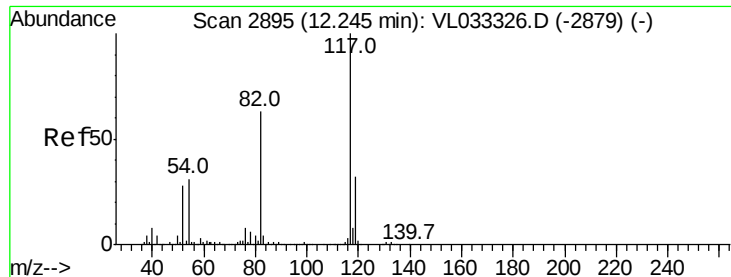
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

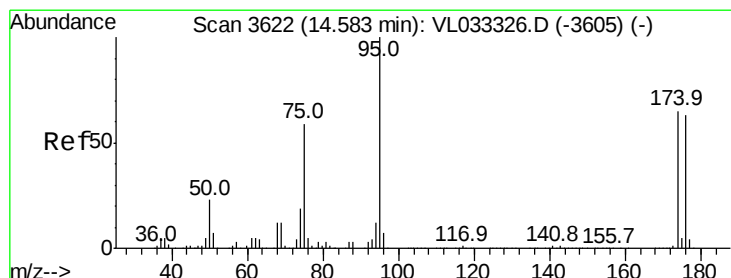
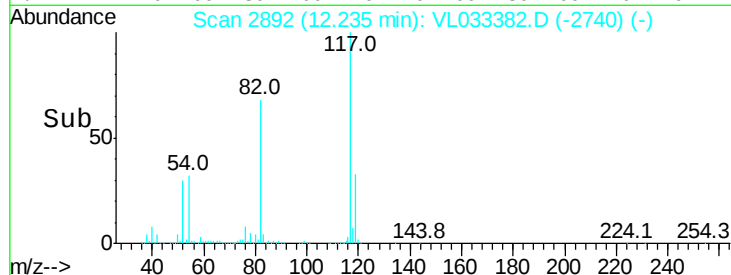
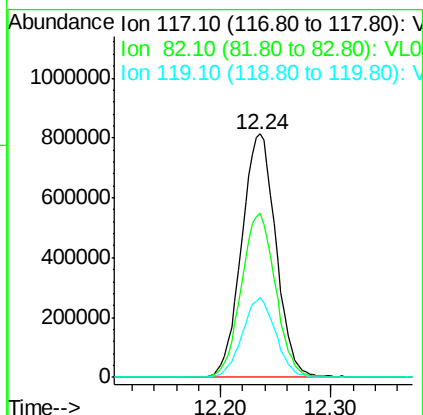
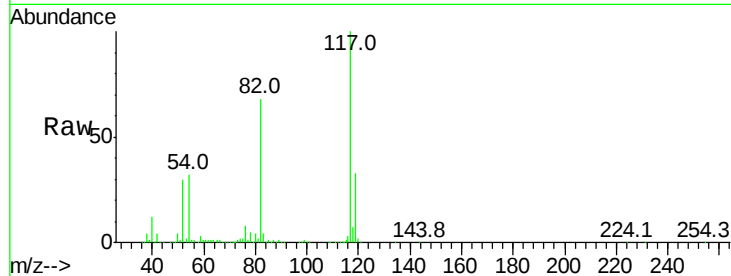




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033382.D
Acq: 19 Mar 2019 8:30

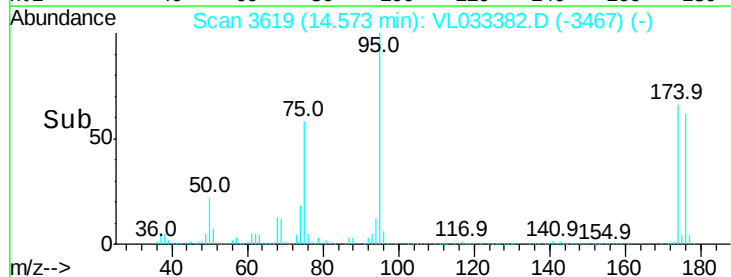
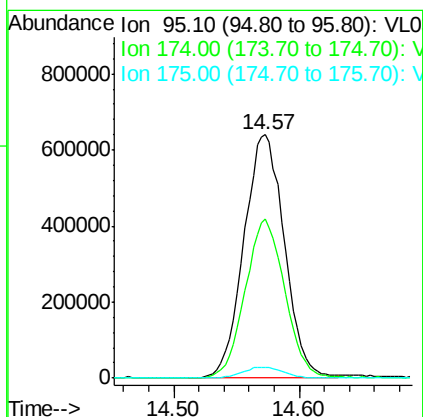
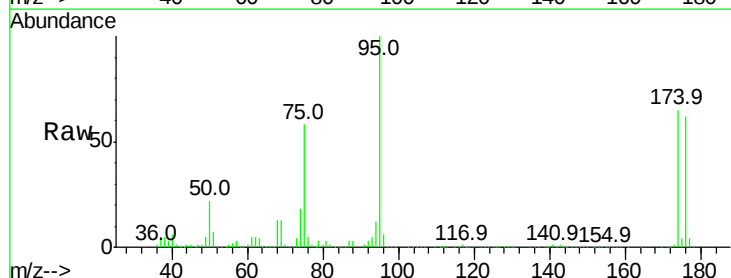
Instrument :
MSVOA_L
ClientSampleId :
ST-SS-3DL

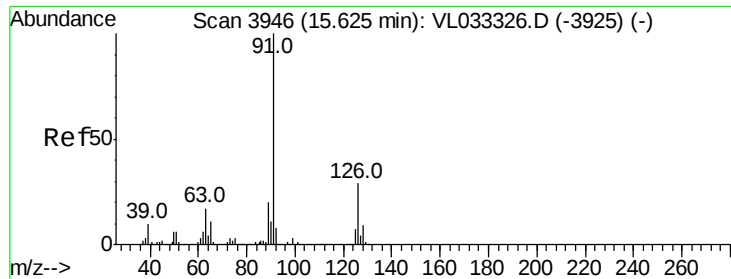
Tgt Ion:117 Resp: 1750342
Ion Ratio Lower Upper
117 100
82 67.3 53.4 80.2
119 32.0 27.3 40.9



#68
1-Bromo-4-Fluorobenzene
Concen: 11.098 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033382.D
Acq: 19 Mar 2019 8:30

Tgt Ion: 95 Resp: 1439400
Ion Ratio Lower Upper
95 100
174 64.6 51.5 77.3
175 4.6 3.8 5.6

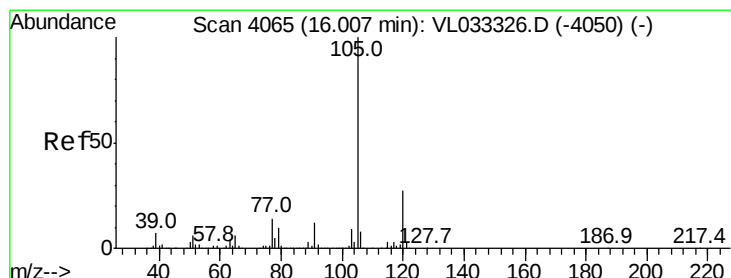
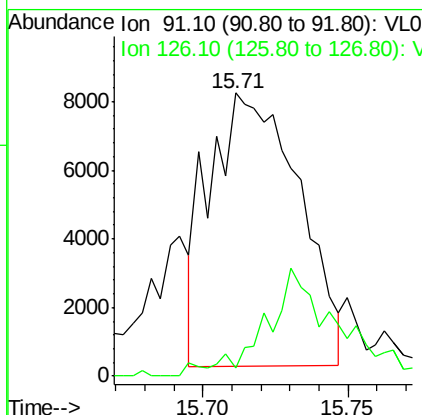
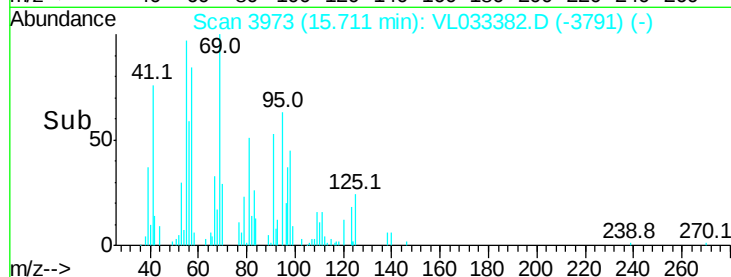
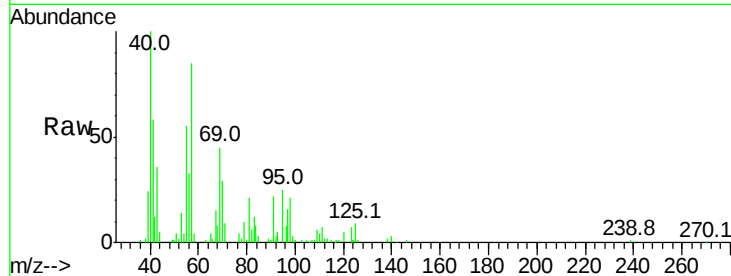




#71
2-Chlorotoluene
Concen: 0.076 ppbv
RT: 15.71 min Scan# 3973
Delta R.T. 0.09 min
Lab File: VL033382.D
Acq: 19 Mar 2019 8:30

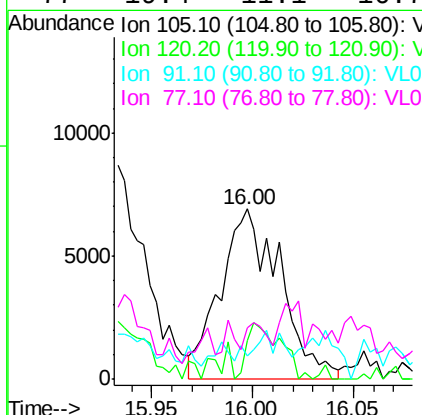
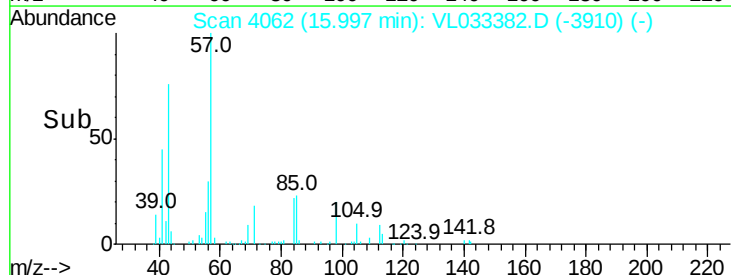
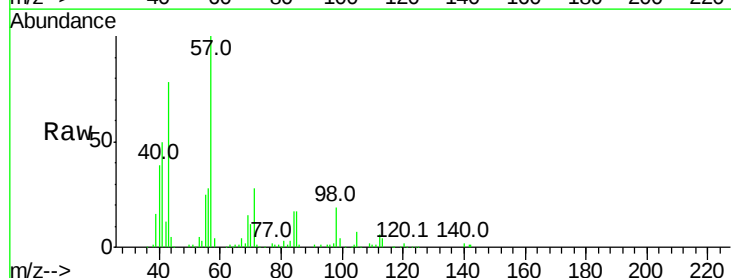
Instrument :
MSVOA_L
ClientSampleId :
ST-SS-3DL

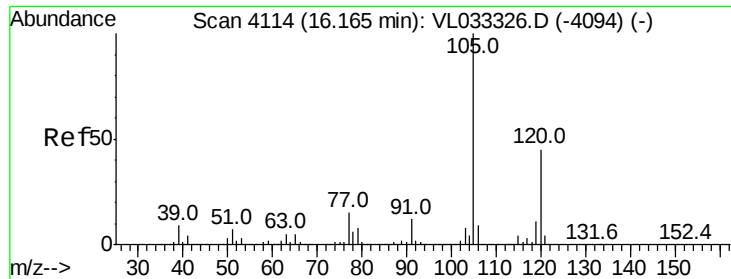
Tgt Ion: 91 Resp: 17109
Ion Ratio Lower Upper
91 100
126 32.5 11.6 46.6



#72
4-Ethyltoluene
Concen: 0.060 ppbv
RT: 16.00 min Scan# 4062
Delta R.T. -0.01 min
Lab File: VL033382.D
Acq: 19 Mar 2019 8:30

Tgt Ion: 105 Resp: 14248
Ion Ratio Lower Upper
105 100
120 28.8 22.9 34.3
91 25.4 10.2 15.2#
77 19.4 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.093 ppbv

RT: 16.15 min Scan# 4111

Delta R.T. -0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Instrument :

MSVOA_L

ClientSampleId :

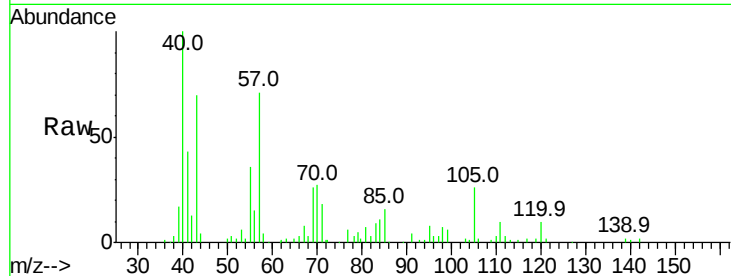
ST-SS-3DL

Tgt Ion:105 Resp: 21312

Ion Ratio Lower Upper

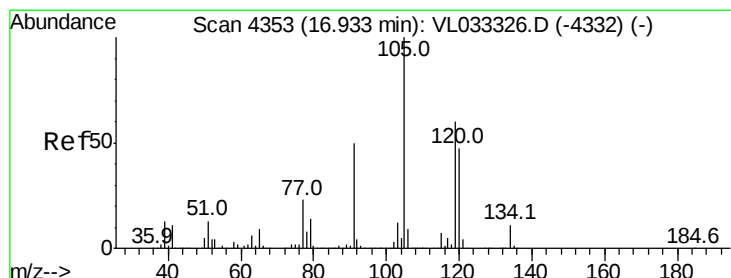
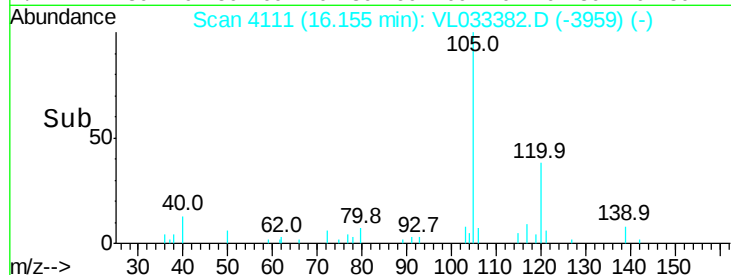
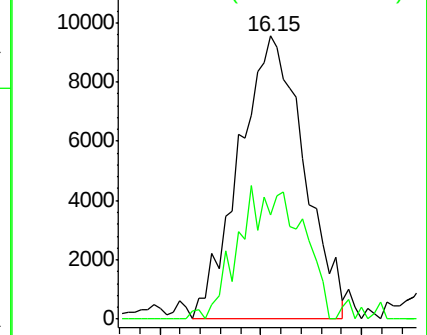
105 100

120 34.3 36.2 54.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.093 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033382.D

Acq: 19 Mar 2019 8:30

Tgt Ion:105 Resp: 22607

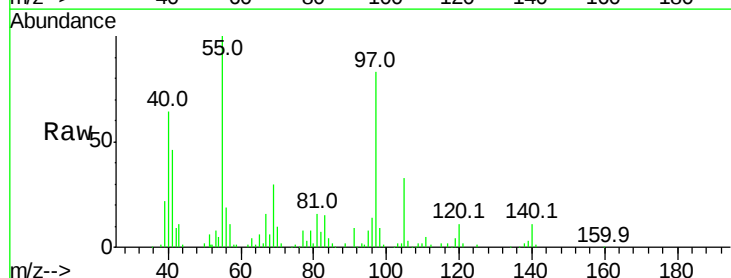
Ion Ratio Lower Upper

105 100

120 31.8 37.4 56.2#

91 24.4 41.0 61.4#

77 20.8 18.5 27.7



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

