

Data File : VL033595.D
Acq On : 16 Apr 2019 16:52
Operator : SY/AP
Sample : K2241-14 0.03 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Quant Time: Apr 17 05:54:17 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 16:00:50 2019
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	761547	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1847063	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1902015	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1542150	10.34	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

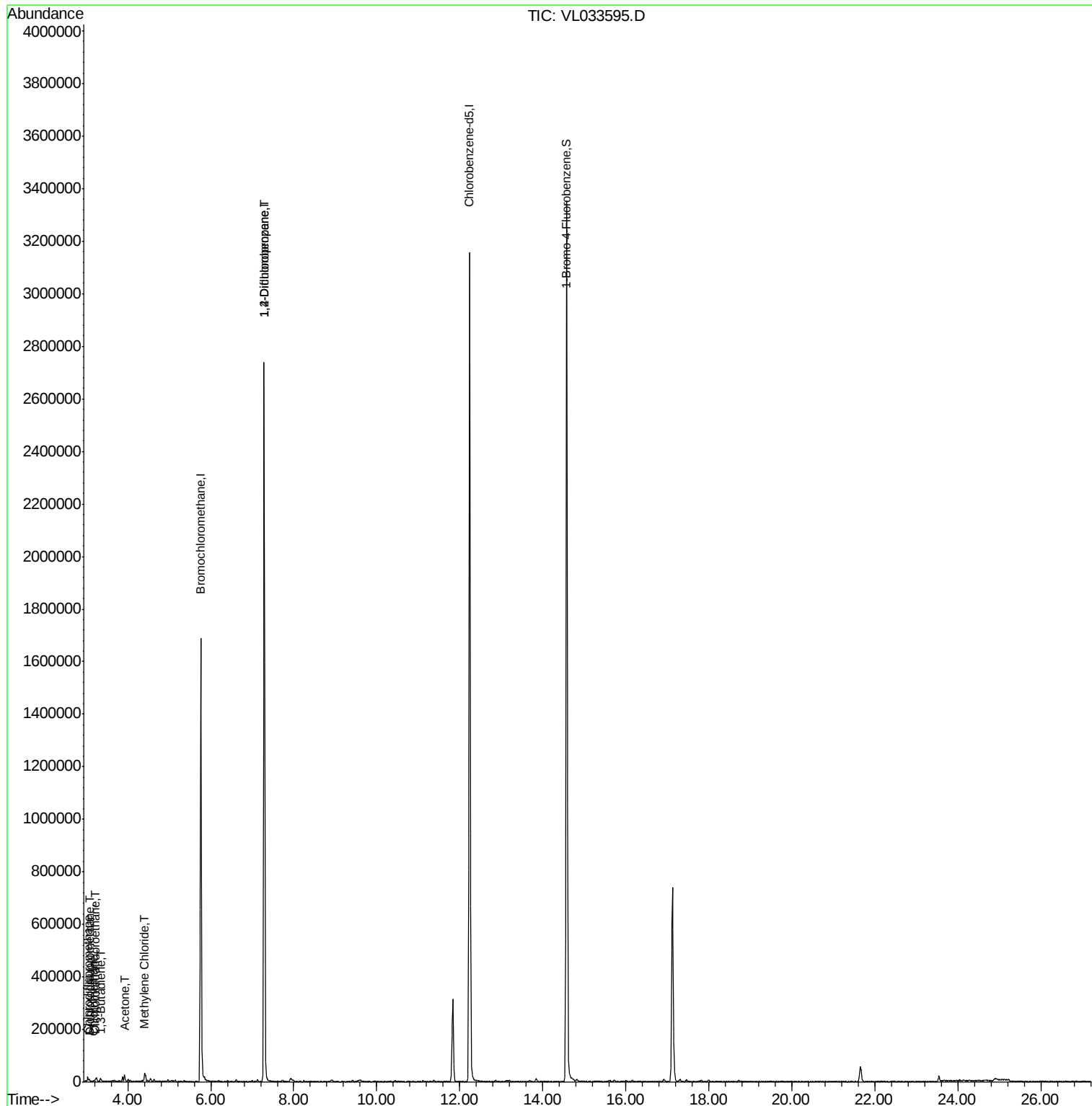
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	5583	0.050	ppbv	95
3) Chlorodifluoromethane	3.02	51	5575	0.064	ppbv #	85
4) Chloromethane	3.17	50	1805	0.039	ppbv	93
8) Dichlorotetrafluoroethane	3.23	85	4658	0.039	ppbv	96
15) Acetone	3.92	43	17329	0.189	ppbv #	77
16) 1,3-Butadiene	3.35	39	1331	0.037	ppbv #	6
20) Methylene Chloride	4.41	84	8112	0.209	ppbv	88
39) 1,2-Dichloropropane	7.28	63	488330	8.044	ppbv #	23

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

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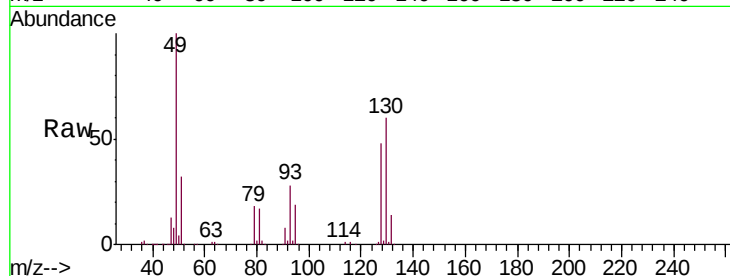
Tgt Ion: 49 Resp: 761547

Ion Ratio Lower Upper

49 100

128 49.1 24.0 72.0

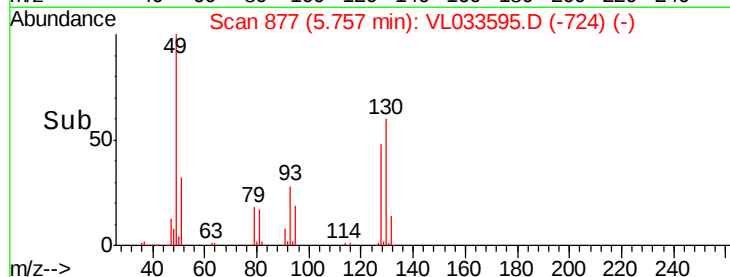
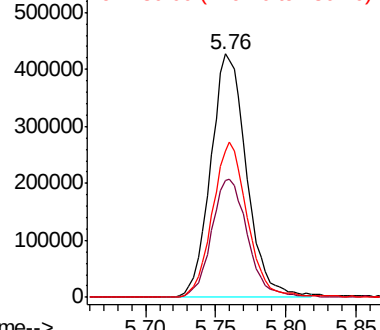
130 62.6 31.2 93.6



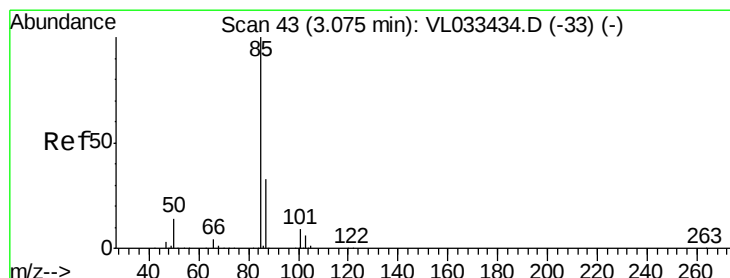
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033595.D

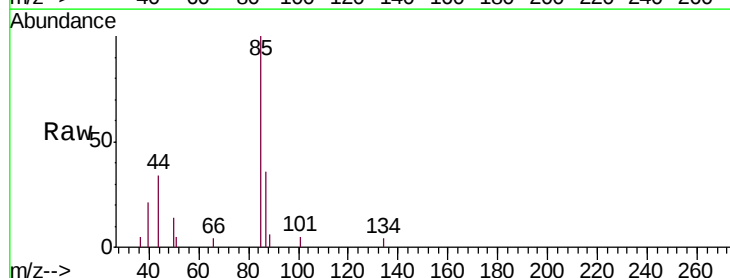
Acq: 16 Apr 2019 16:52

Tgt Ion: 85 Resp: 5583

Ion Ratio Lower Upper

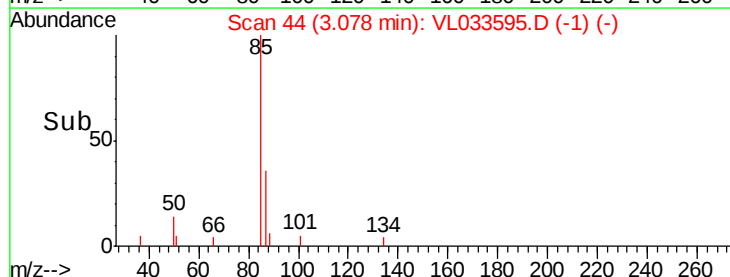
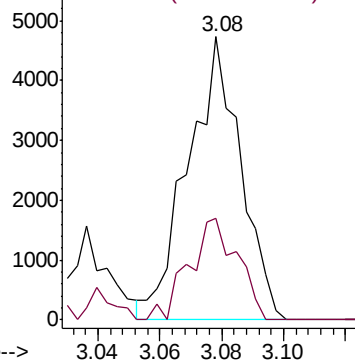
85 100

87 36.0 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.064 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.01 min

Lab File: VL033595.D

Acq: 16 Apr 2019 16:52

Instrument :

MSVOA_L

ClientSampleId :

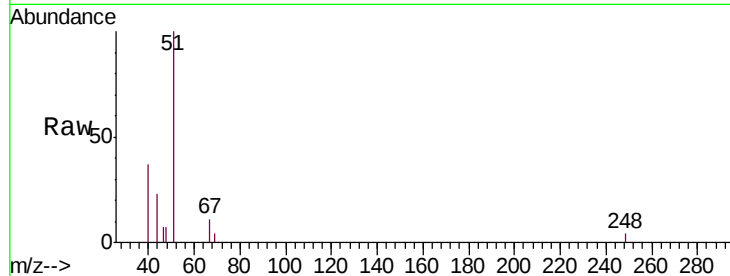
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 51 Resp: 5575

Ion Ratio Lower Upper

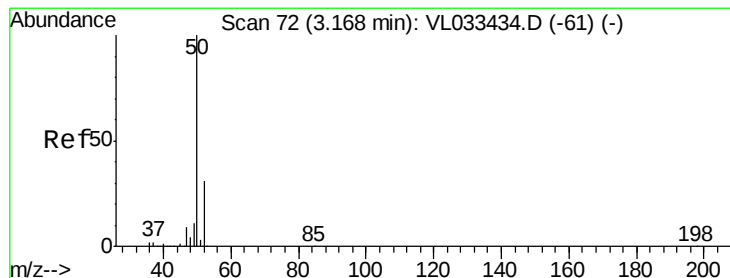
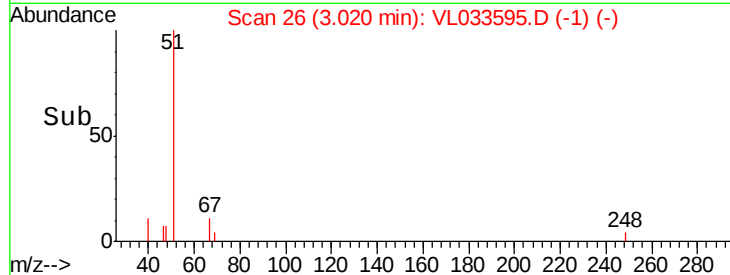
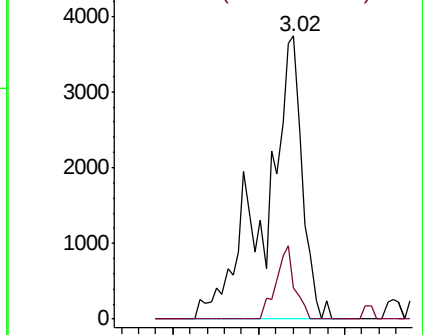
51 100

67 12.9 15.7 23.5#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033595.D

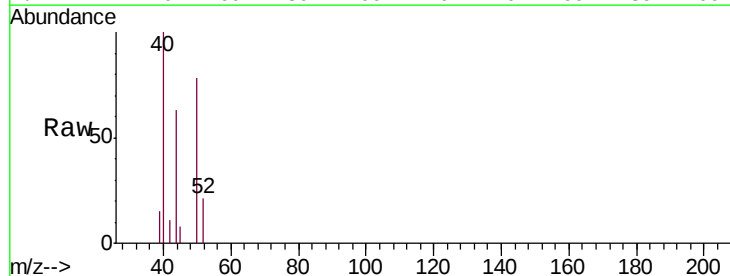
Acq: 16 Apr 2019 16:52

Tgt Ion: 50 Resp: 1805

Ion Ratio Lower Upper

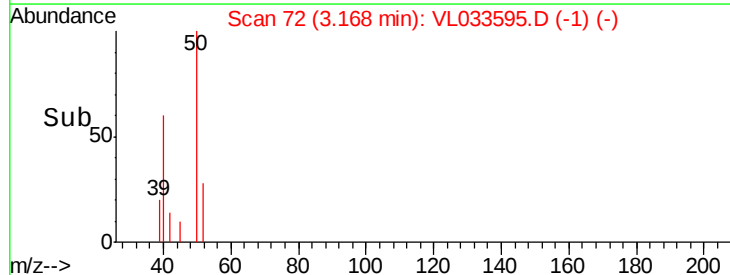
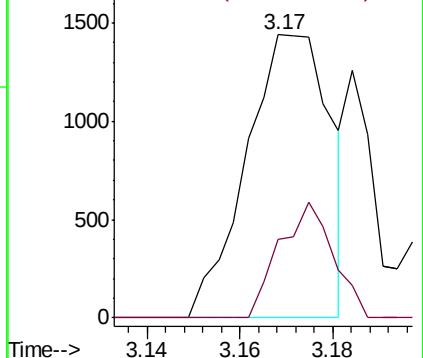
50 100

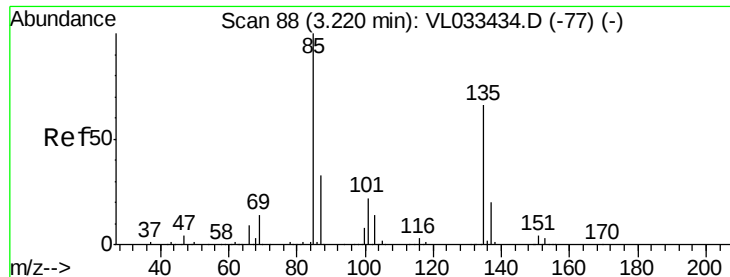
52 27.6 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.039 ppbv

RT: 3.23 min Scan# 90

Delta R.T. 0.01 min

Lab File: VL033595.D

Acq: 16 Apr 2019 16:52

Instrument :

MSVOA_L

ClientSampleId :

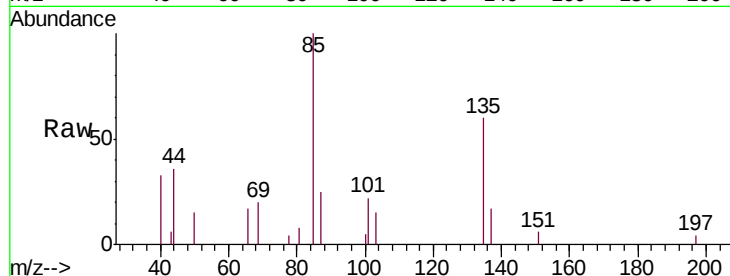
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 85 Resp: 4658

Ion Ratio Lower Upper

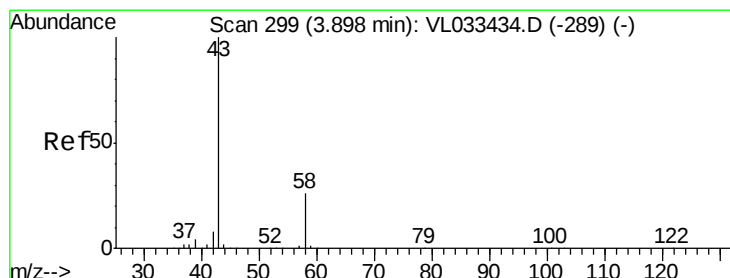
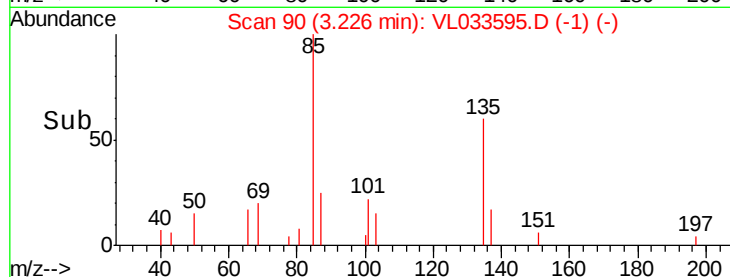
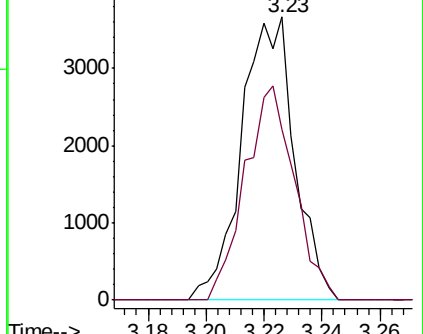
85 100

135 70.6 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#15

Acetone

Concen: 0.189 ppbv

RT: 3.92 min Scan# 306

Delta R.T. 0.02 min

Lab File: VL033595.D

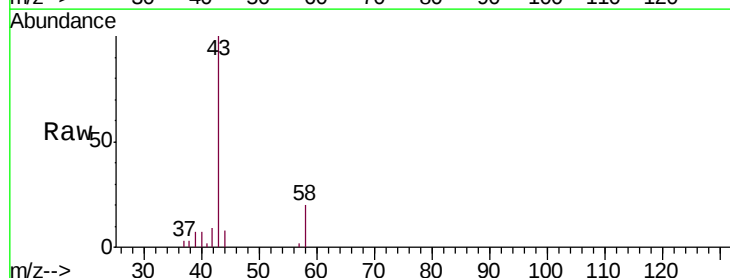
Acq: 16 Apr 2019 16:52

Tgt Ion: 43 Resp: 17329

Ion Ratio Lower Upper

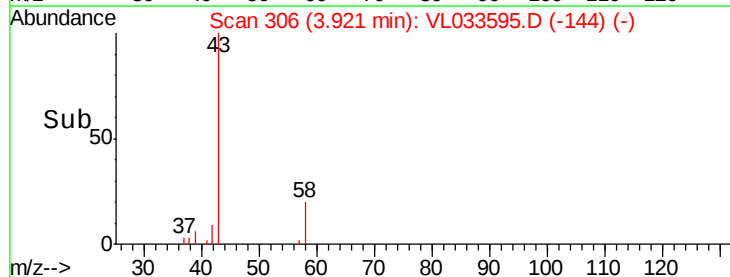
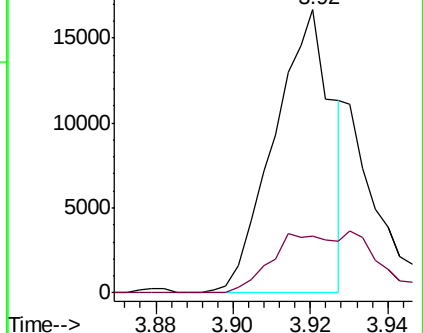
43 100

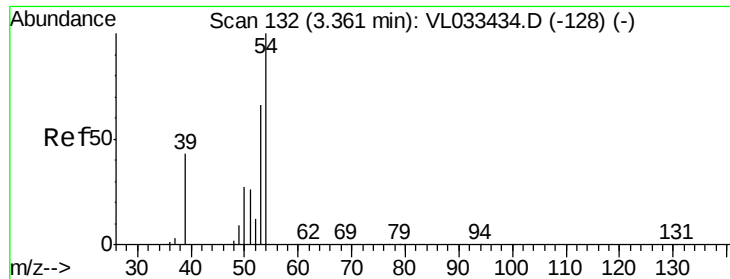
58 37.4 20.5 30.7#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

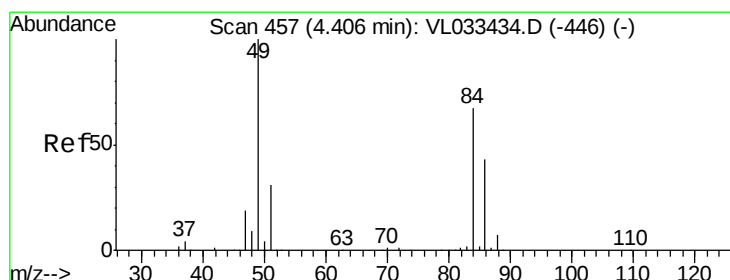
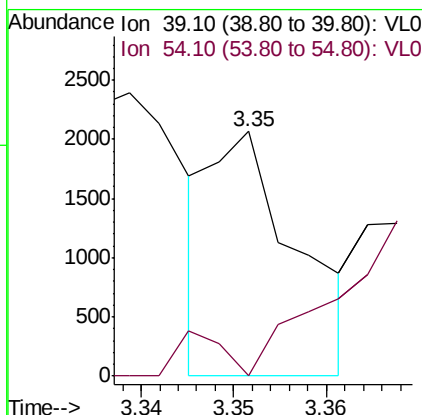
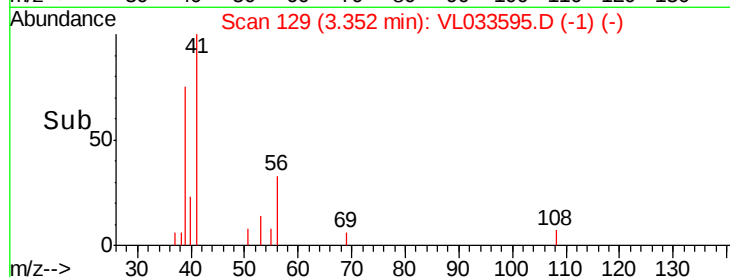
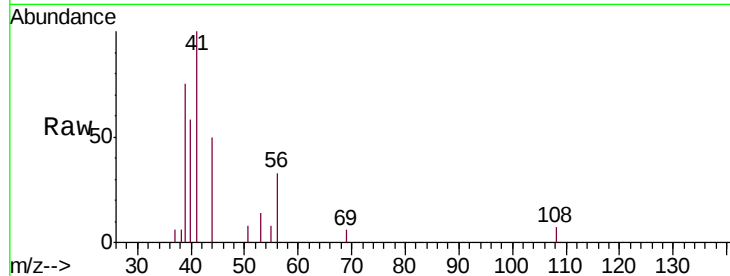




#16
 1,3-Butadiene
 Concen: 0.037 ppbv
 RT: 3.35 min Scan# 129
 Delta R.T. -0.01 min
 Lab File: VL033595.D
 Acq: 16 Apr 2019 16:52

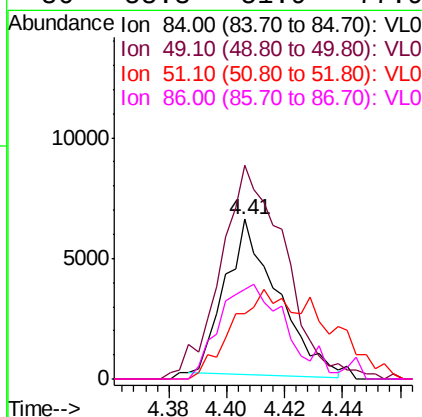
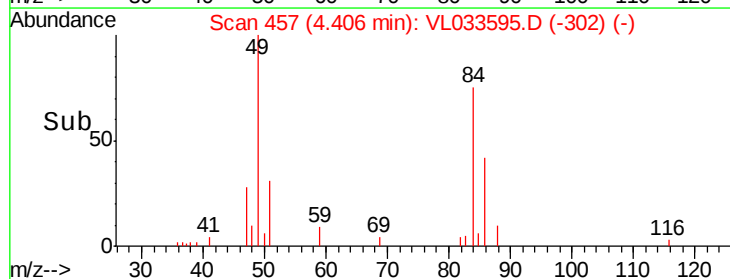
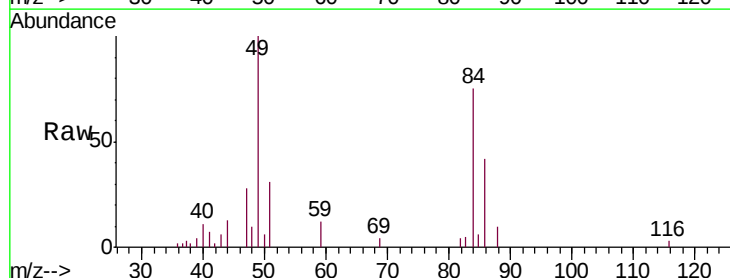
Instrument :
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 ClientSampleId :
 LOD-MDL-AIR-01-QT2-2019

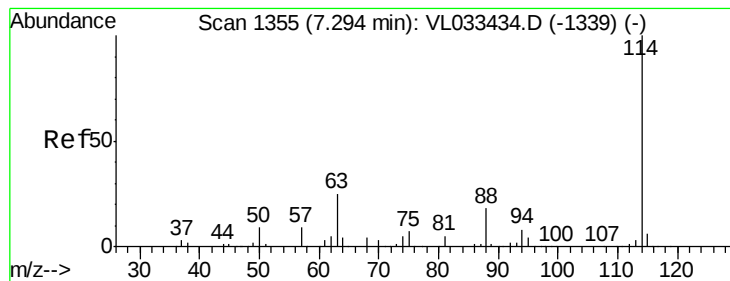
Tgt Ion: 39 Resp: 1331
 Ion Ratio Lower Upper
 39 100
 54 0.0 69.4 104.2#



#20
 Methylene Chloride
 Concen: 0.209 ppbv
 RT: 4.41 min Scan# 457
 Delta R.T. -0.00 min
 Lab File: VL033595.D
 Acq: 16 Apr 2019 16:52

Tgt Ion: 84 Resp: 8112
 Ion Ratio Lower Upper
 84 100
 49 129.5 120.0 180.0
 51 42.7 36.7 55.1
 86 58.3 51.9 77.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033595.D

Acq: 16 Apr 2019 16:52

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT2-2019

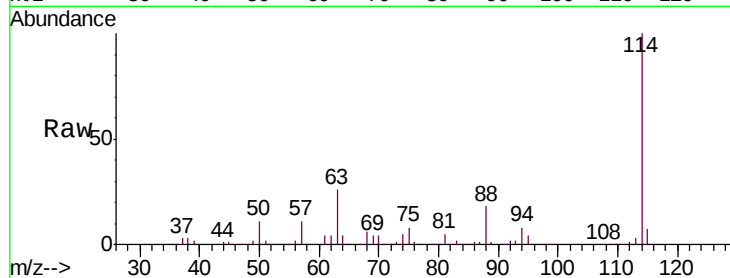
Tgt Ion: 114 Resp: 1847063

Ion Ratio Lower Upper

114 100

63 26.7 21.5 32.3

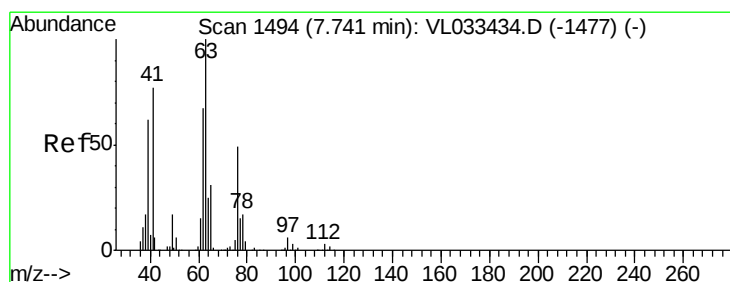
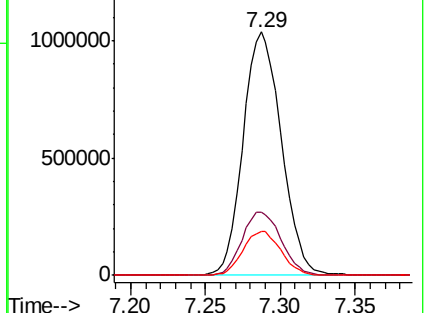
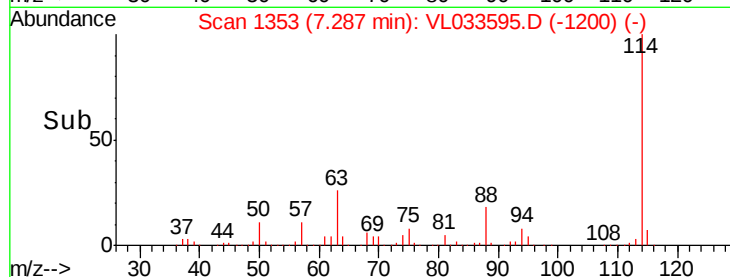
88 18.1 14.5 21.7



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#39

1,2-Dichloropropane

Concen: 8.044 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. -0.46 min

Lab File: VL033595.D

Acq: 16 Apr 2019 16:52

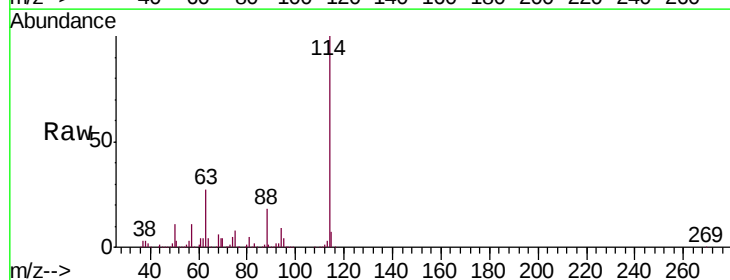
Tgt Ion: 63 Resp: 488330

Ion Ratio Lower Upper

63 100

41 0.0 61.2 91.8#

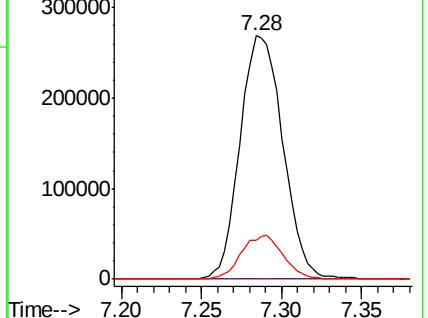
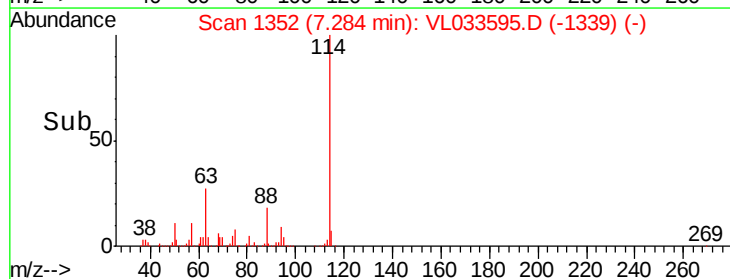
62 15.9 54.0 81.0#

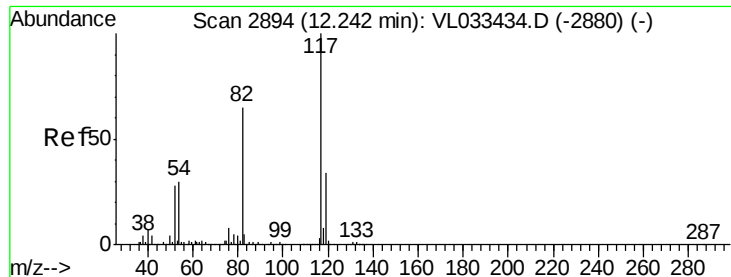


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

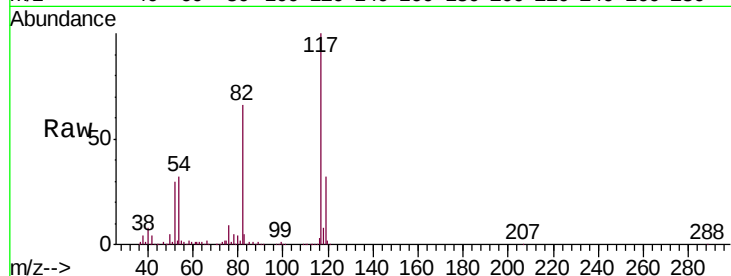




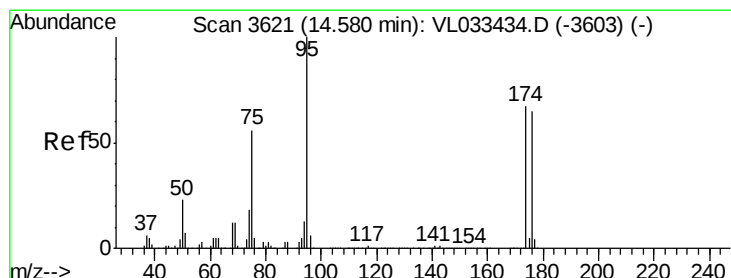
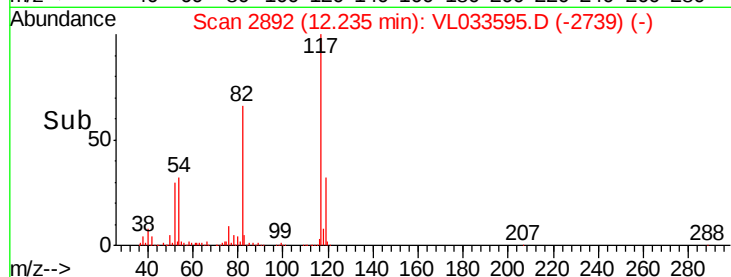
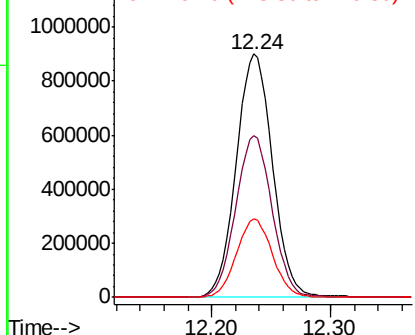
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033595.D
Acq: 16 Apr 2019 16:52

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT2-2019

Tgt Ion: 117 Resp: 1902015
Ion Ratio Lower Upper
117 100
82 67.0 51.5 77.3
119 32.0 25.5 38.3

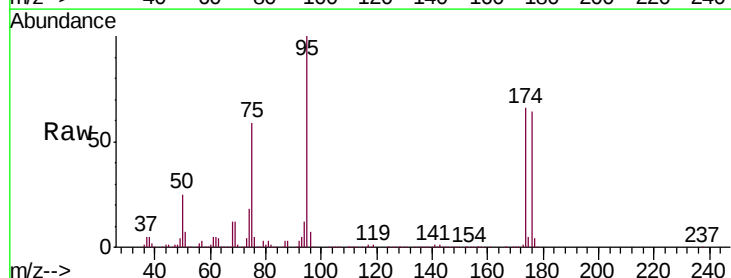


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



#68
1-Bromo-4-Fluorobenzene
Concen: 10.342 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033595.D
Acq: 16 Apr 2019 16:52

Tgt Ion: 95 Resp: 1542150
Ion Ratio Lower Upper
95 100
174 66.2 52.9 79.3
175 4.8 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

