

Data File : VL032616.D
Acq On : 11 Oct 2018 22:47
Operator : SY/AP
Sample : J5370-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518DL

Quant Time: Oct 12 01:57:31 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 01 06:49:26 2018
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.79	49	1458247	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.32	114	3251531	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.27	117	3399400	10.00	ppbv	-0.03

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.61 95 2473296 9.65 ppbv -0.03
Spiked Amount 10.000 Range 65 - 135 Recovery = 96.50%

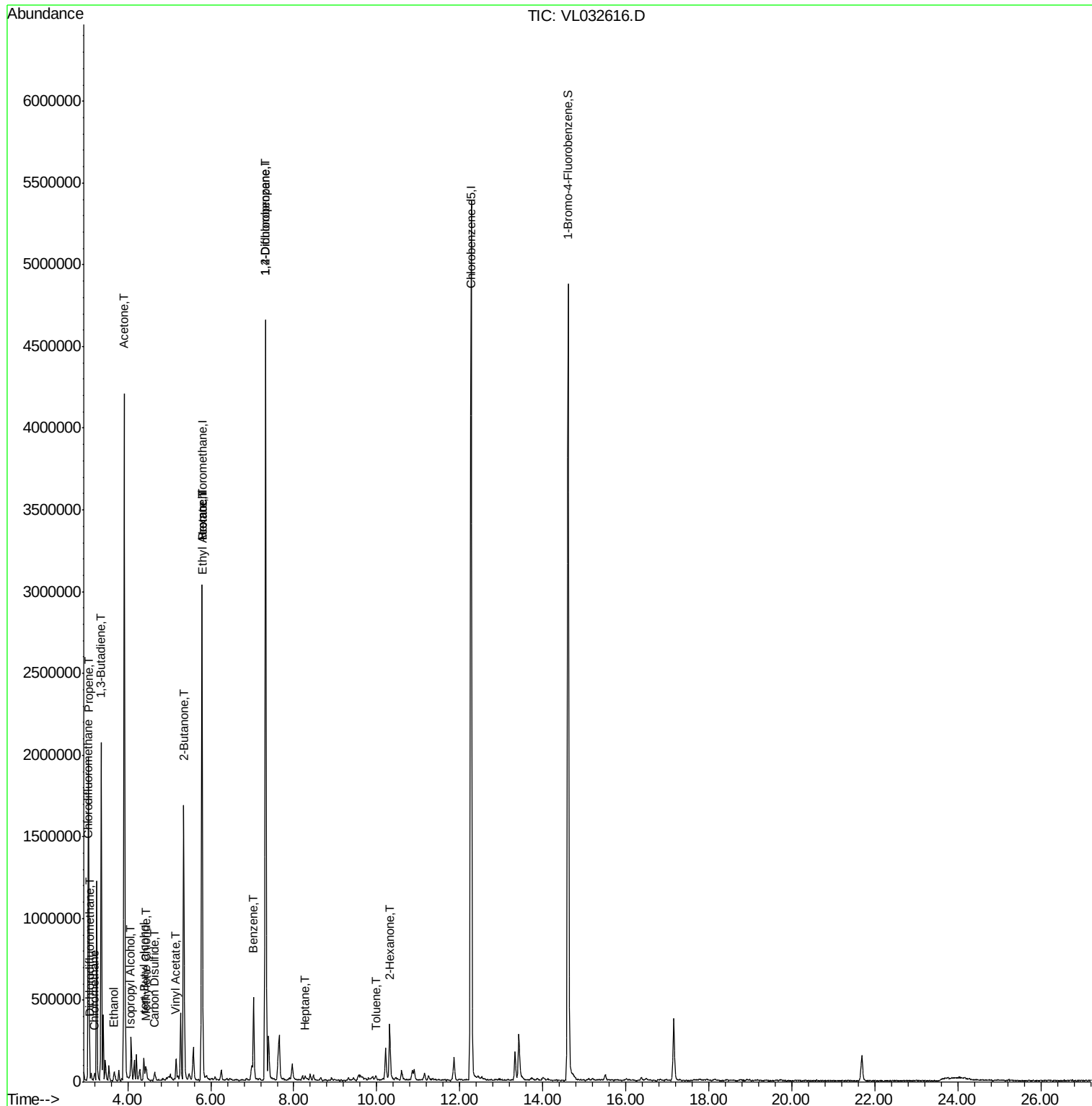
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.09	85	6142	0.046	ppbv	89
3) Chlorodifluoromethane	3.03	51	4609	0.038	ppbv	97
4) Chloromethane	3.18	50	5794	0.082	ppbv #	82
9) Propene	3.05	41	831130	15.796	ppbv	93
10) Heptane	8.27	43	6492	0.034	ppbv #	55
13) Ethanol	3.67	45	56567	3.577	ppbv	91
15) Acetone	3.91	43	4286664	33.489	ppbv	94
16) 1,3-Butadiene	3.36	39	515135	9.924	ppbv #	7
17) tert-Butyl alcohol	4.38	59	42972	2.672	ppbv #	100
19) Isopropyl Alcohol	4.05	45	20940	0.235	ppbv #	93
20) Methylene Chloride	4.43	84	12960	0.209	ppbv	87
23) Vinyl Acetate	5.17	43	68191	0.301	ppbv #	80
25) Ethyl Acetate	5.80	43	32465	0.105	ppbv #	93
26) Hexane	5.80	57	31034	0.221	ppbv #	1
27) Carbon Disulfide	4.64	76	50654	0.336	ppbv #	94
34) 2-Butanone	5.35	43	1906133	9.844	ppbv	98
36) Benzene	7.03	78	399134	1.519	ppbv	95
39) 1,2-Dichloropropane	7.32	63	871035	7.356	ppbv #	25
51) 2-Hexanone	10.31	43	272253	1.082	ppbv #	98
53) Toluene	9.97	91	10349	0.032	ppbv #	26

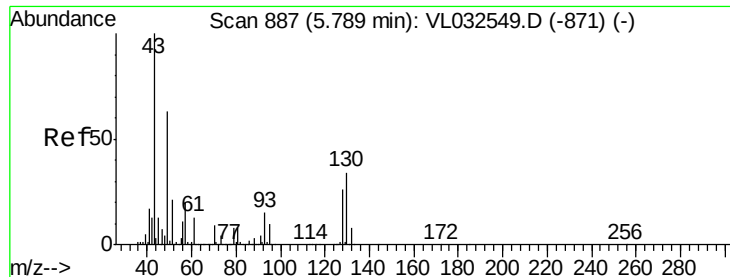
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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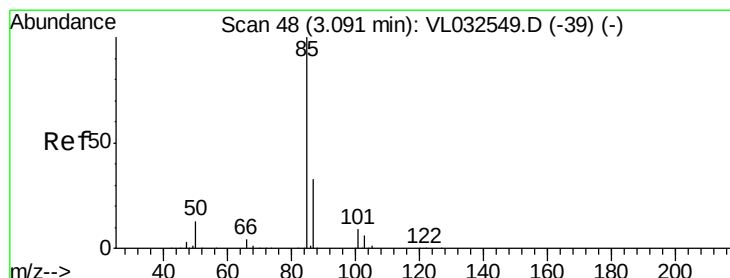
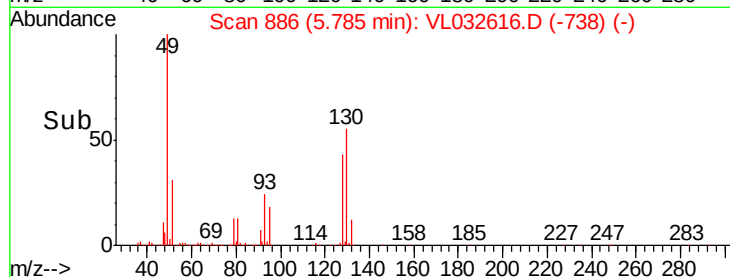
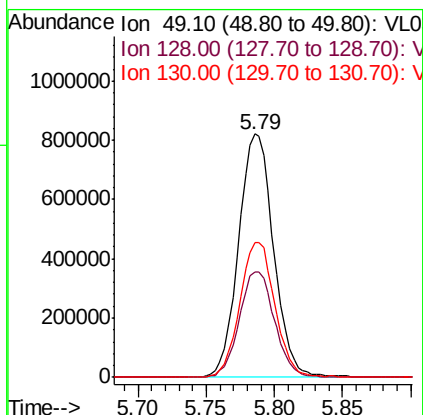
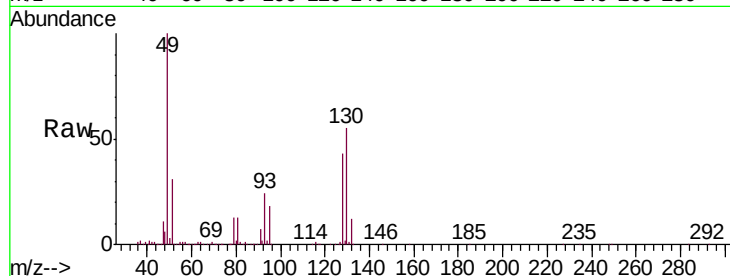




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.79 min Scan# 886
 Delta R.T. -0.02 min
 Lab File: VL032616.D
 Acq: 11 Oct 2018 22:47

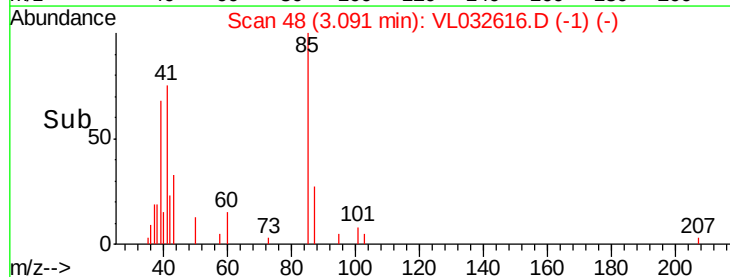
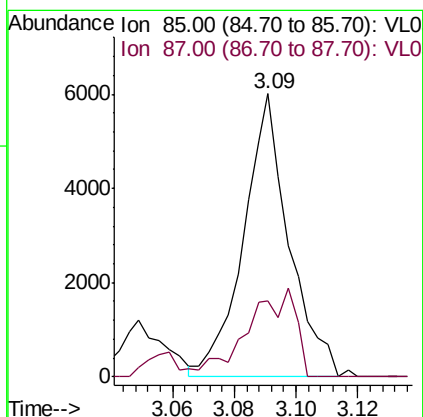
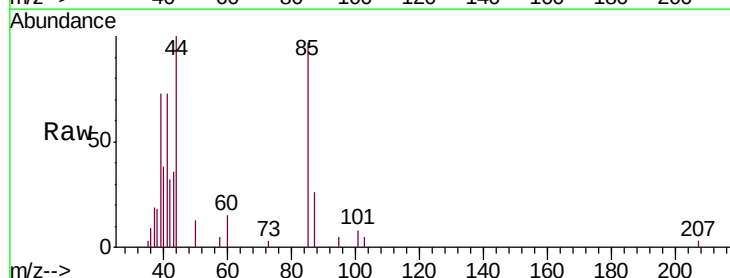
Instrument :
 MSVOA_L
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 Q2-SVI-100518DL

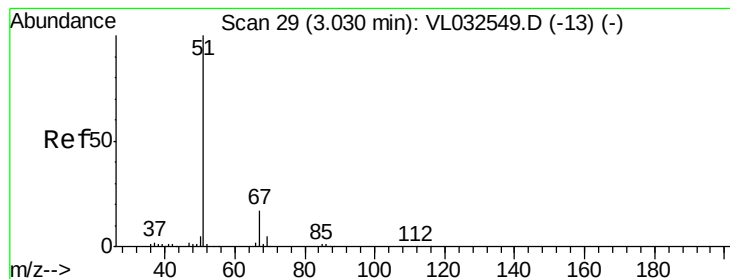
Tgt Ion: 49 Resp: 1458247
 Ion Ratio Lower Upper
 49 100
 128 44.0 20.7 62.1
 130 56.0 26.6 79.7



#2
 Dichlorodifluoromethane
 Concen: 0.046 ppbv
 RT: 3.09 min Scan# 48
 Delta R.T. -0.02 min
 Lab File: VL032616.D
 Acq: 11 Oct 2018 22:47

Tgt Ion: 85 Resp: 6142
 Ion Ratio Lower Upper
 85 100
 87 26.7 26.2 39.4





#3

Chlorodifluoromethane

Concen: 0.038 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL032616.D

Acq: 11 Oct 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

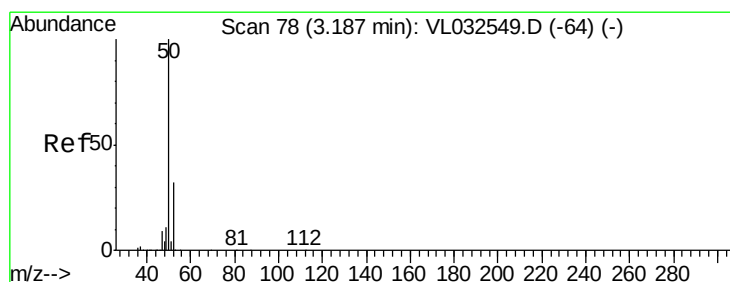
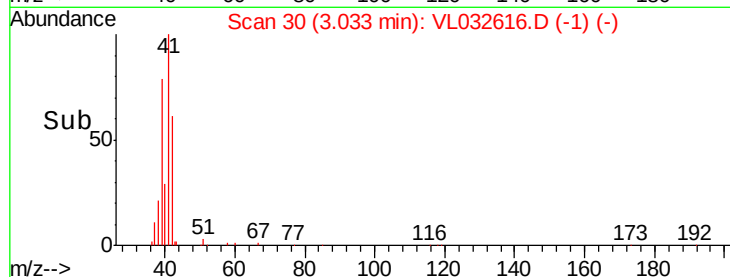
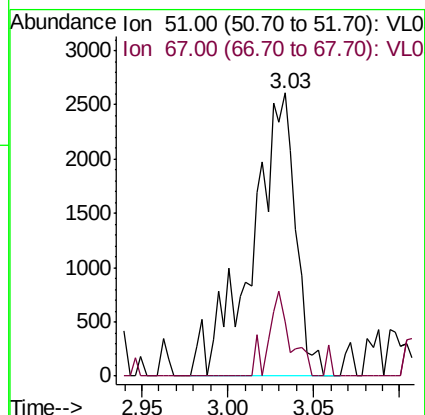
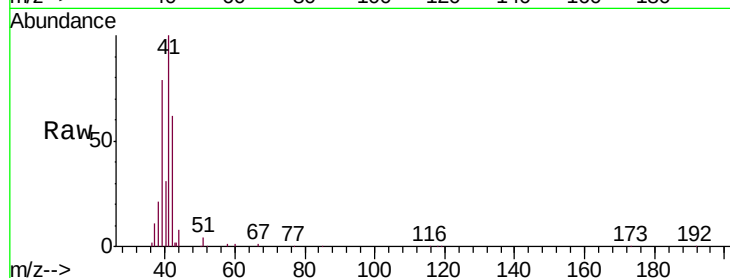
Q2-SVI-100518DL

Tgt Ion: 51 Resp: 4609

Ion Ratio Lower Upper

51 100

67 15.9 13.8 20.8



#4

Chloromethane

Concen: 0.082 ppbv

RT: 3.18 min Scan# 76

Delta R.T. -0.02 min

Lab File: VL032616.D

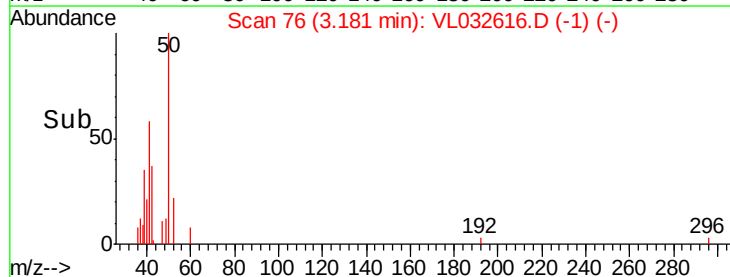
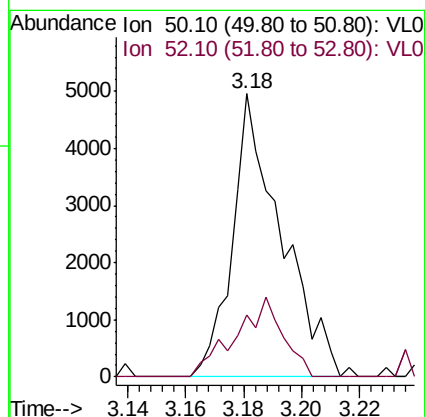
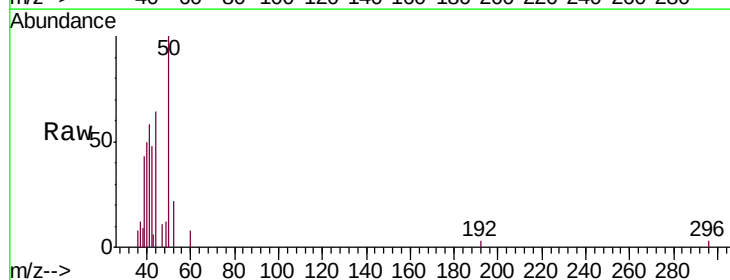
Acq: 11 Oct 2018 22:47

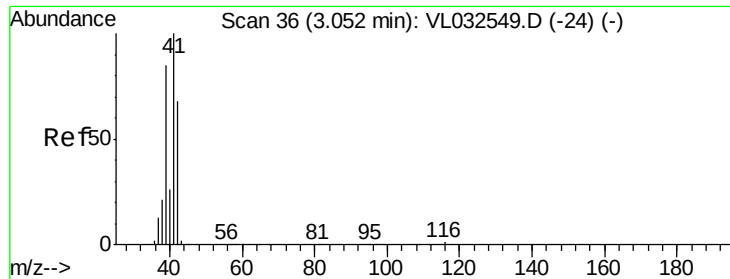
Tgt Ion: 50 Resp: 5794

Ion Ratio Lower Upper

50 100

52 21.9 25.6 38.4#





#9

Propene

Concen: 15.796 ppbv

RT: 3.05 min Scan# 35

Delta R.T. -0.02 min

Lab File: VL032616.D

Acq: 11 Oct 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

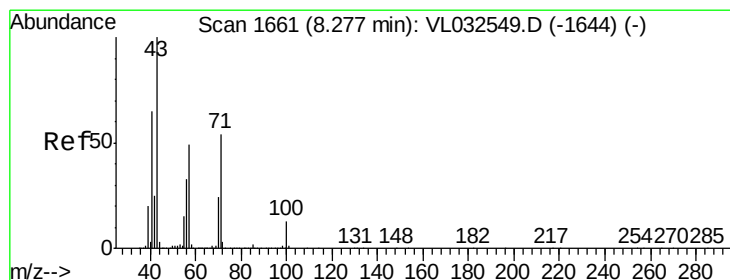
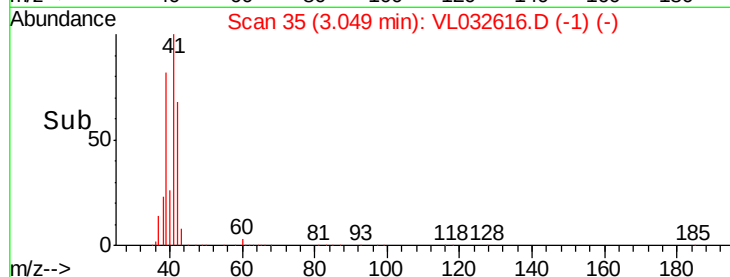
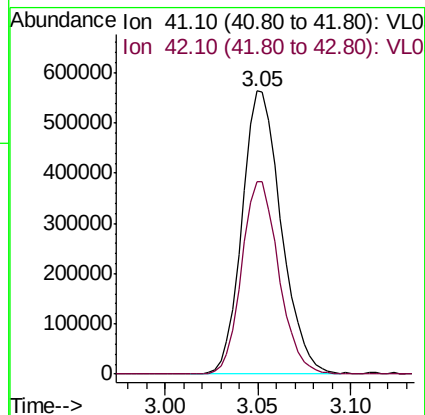
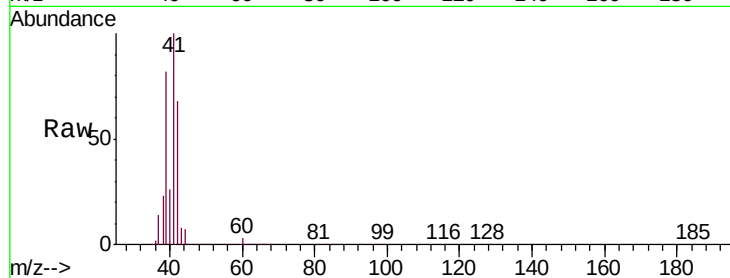
Q2-SVI-100518DL

Tgt Ion: 41 Resp: 831130

Ion Ratio Lower Upper

41 100

42 64.7 56.6 84.8



#10

Heptane

Concen: 0.034 ppbv

RT: 8.27 min Scan# 1660

Delta R.T. -0.02 min

Lab File: VL032616.D

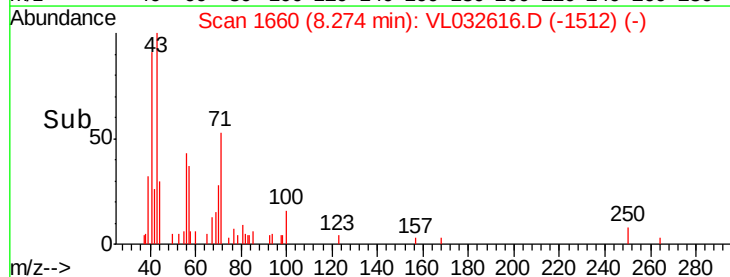
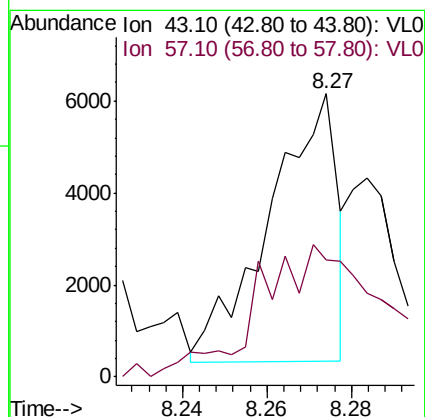
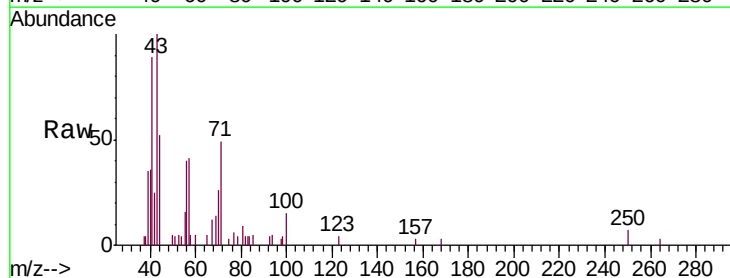
Acq: 11 Oct 2018 22:47

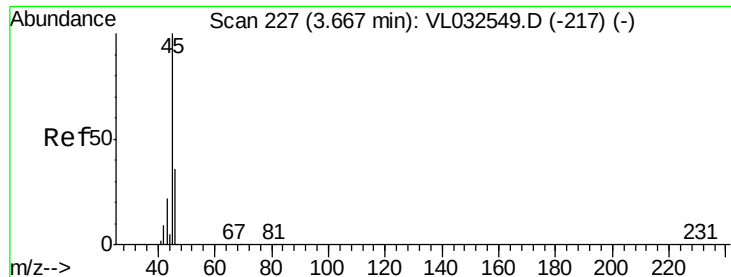
Tgt Ion: 43 Resp: 6492

Ion Ratio Lower Upper

43 100

57 80.7 39.6 59.4#

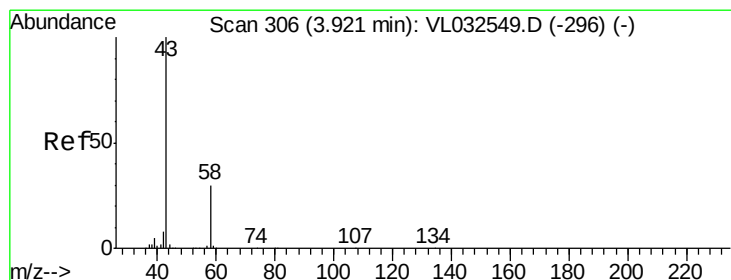
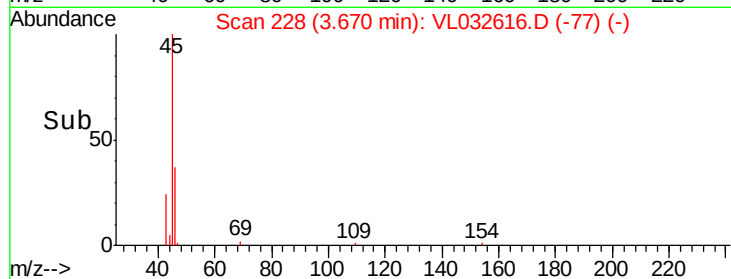
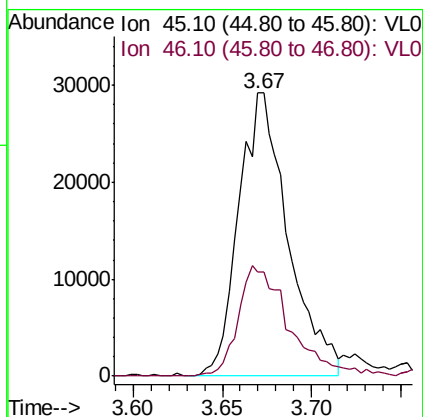
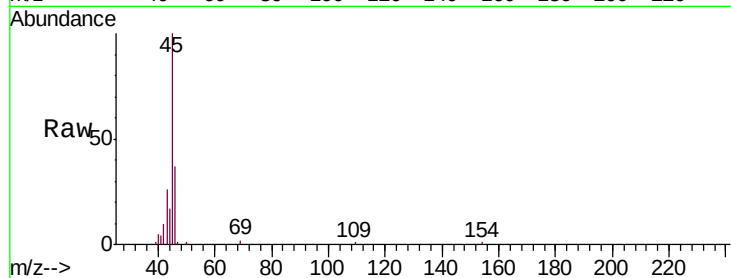




#13
Ethanol
Concen: 3.577 ppbv
RT: 3.67 min Scan# 228
Delta R.T. -0.01 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

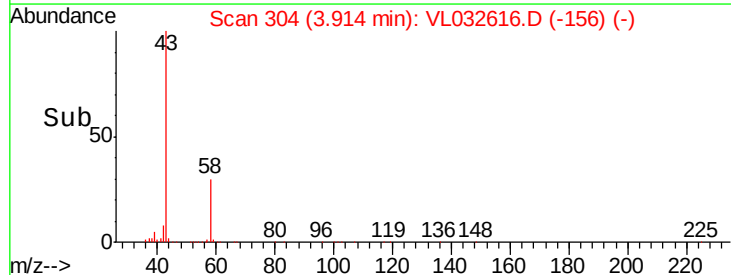
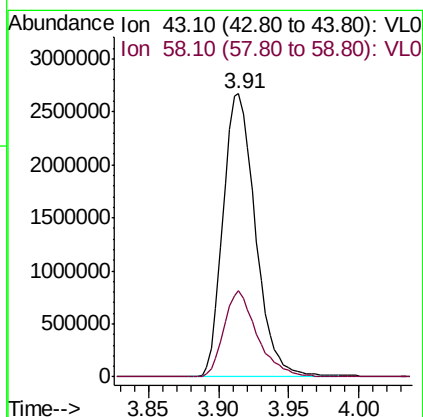
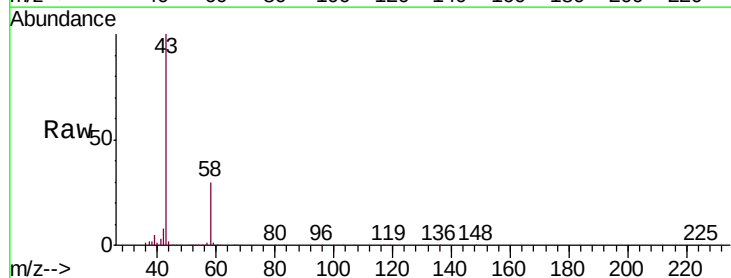
Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518DL

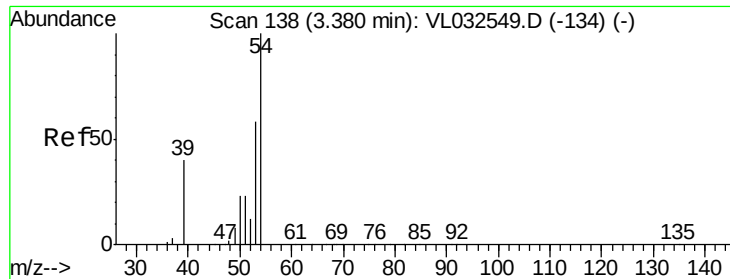
Tgt Ion: 45 Resp: 56567
Ion Ratio Lower Upper
45 100
46 40.8 14.2 56.8



#15
Acetone
Concen: 33.489 ppbv
RT: 3.91 min Scan# 304
Delta R.T. -0.02 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

Tgt Ion: 43 Resp: 4286664
Ion Ratio Lower Upper
43 100
58 31.5 22.6 33.8





#16

1,3-Butadiene

Concen: 9.924 ppbv

RT: 3.36 min Scan# 131

Delta R.T. -0.04 min

Lab File: VL032616.D

Acq: 11 Oct 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

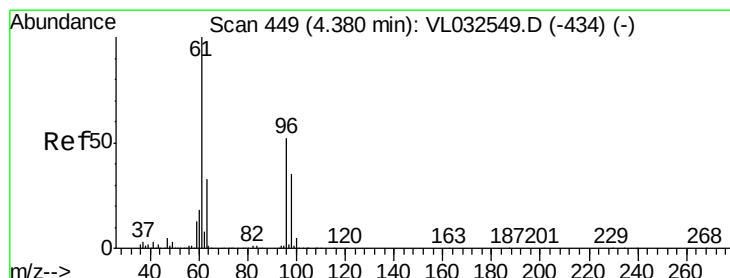
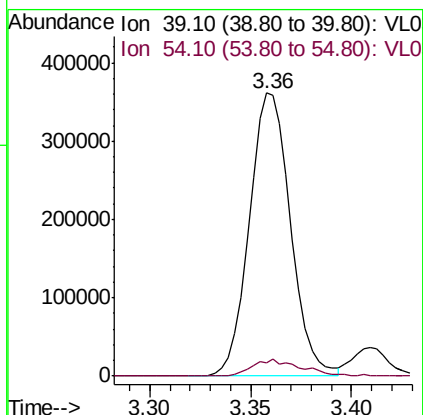
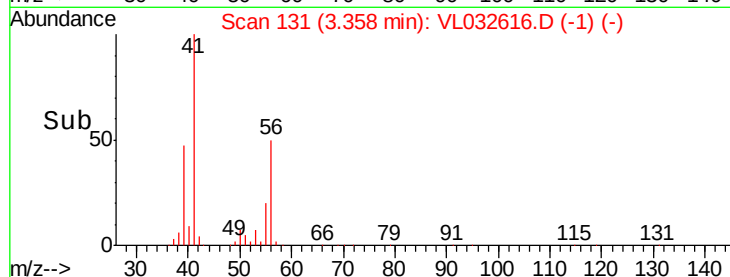
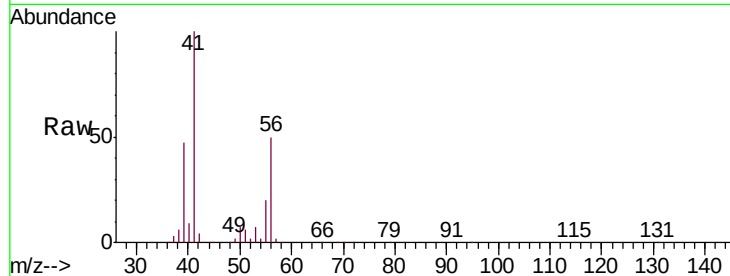
Q2-SVI-100518DL

Tgt Ion: 39 Resp: 515135

Ion Ratio Lower Upper

39 100

54 7.1 80.8 121.2#



#17

tert-Butyl alcohol

Concen: 2.672 ppbv

RT: 4.38 min Scan# 450

Delta R.T. -0.02 min

Lab File: VL032616.D

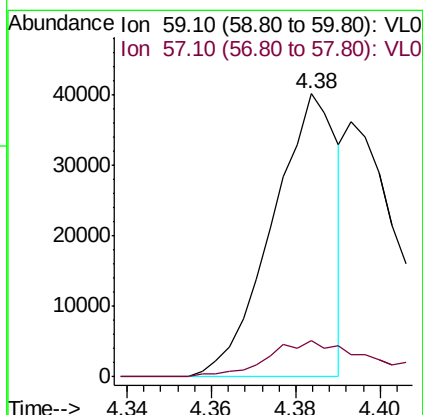
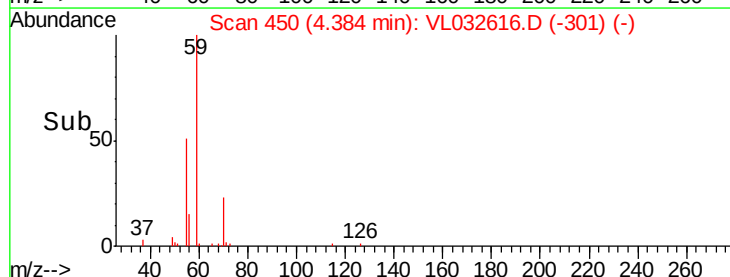
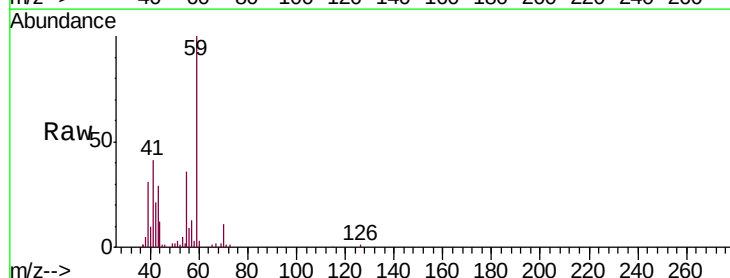
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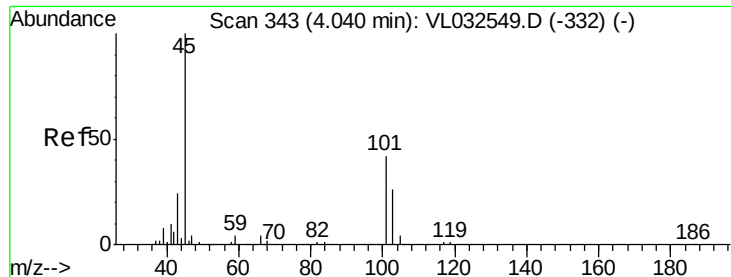
Tgt Ion: 59 Resp: 42972

Ion Ratio Lower Upper

59 100

57 22.2 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 0.235 ppbv

RT: 4.05 min Scan# 347

Delta R.T. -0.01 min

Lab File: VL032616.D

Acq: 11 Oct 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

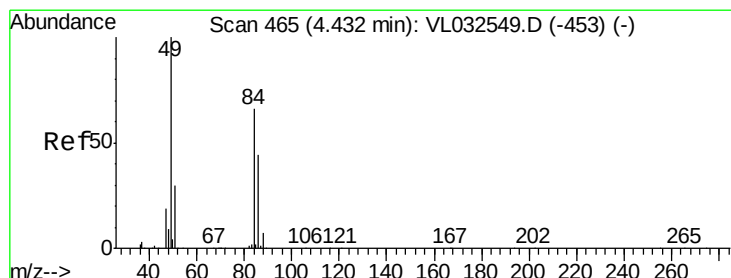
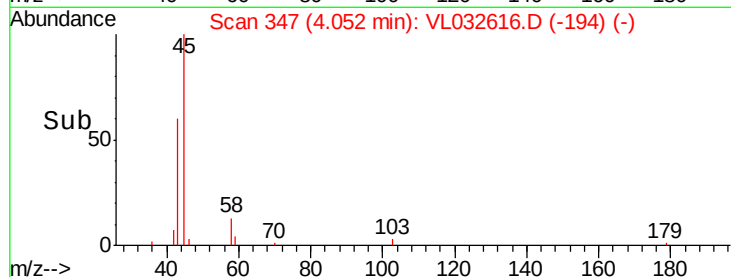
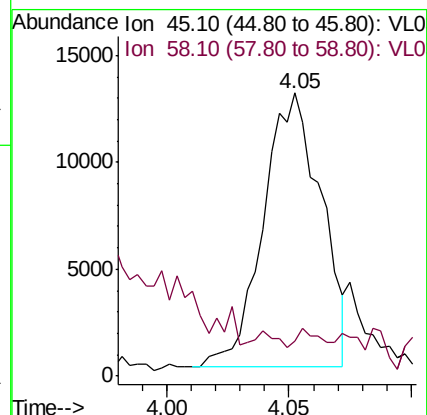
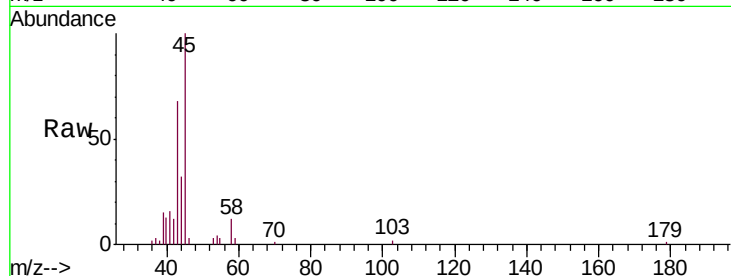
Q2-SVI-100518DL

Tgt Ion: 45 Resp: 20940

Ion Ratio Lower Upper

45 100

58 0.0 2.0 3.0#



#20

Methylene Chloride

Concen: 0.209 ppbv

RT: 4.43 min Scan# 464

Delta R.T. -0.02 min

Lab File: VL032616.D

Acq: 11 Oct 2018 22:47

Tgt Ion: 84 Resp: 12960

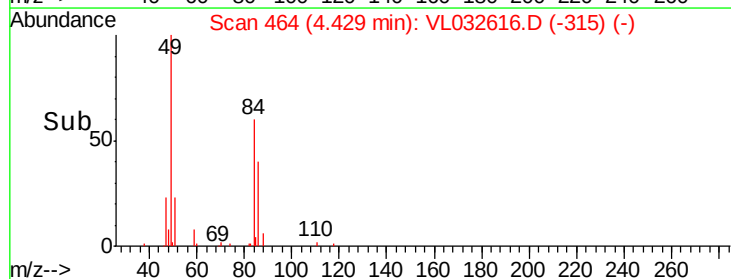
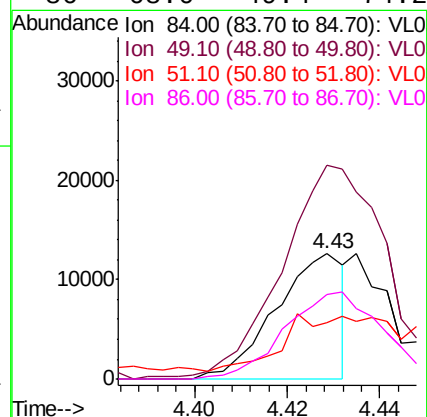
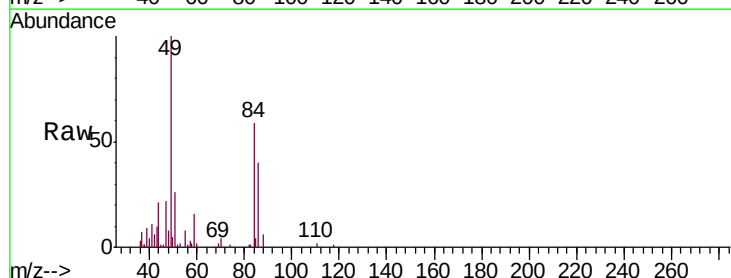
Ion Ratio Lower Upper

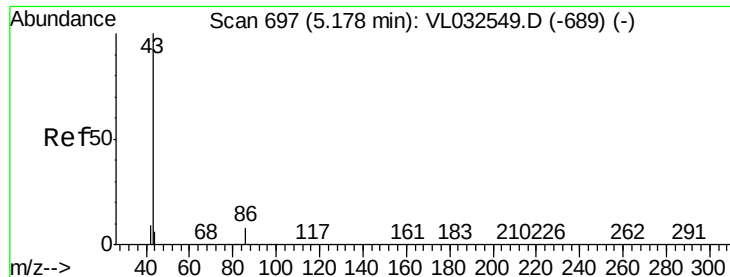
84 100

49 168.0 119.1 178.7

51 36.9 35.2 52.8

86 68.0 49.4 74.2

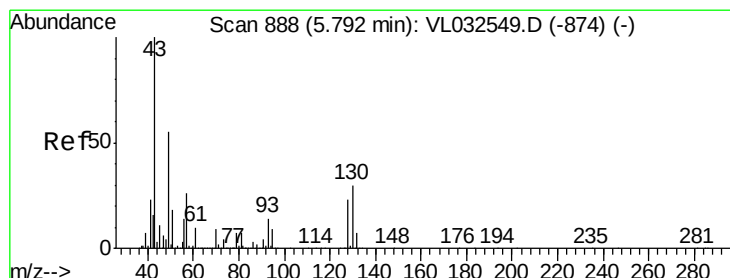
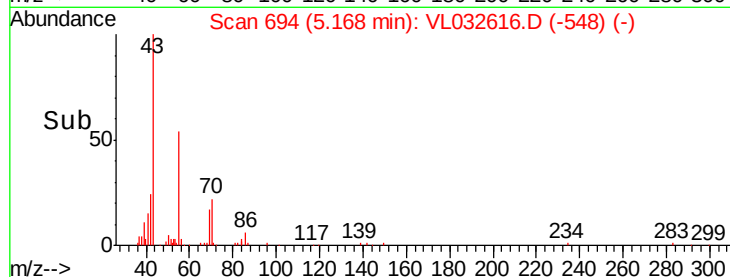
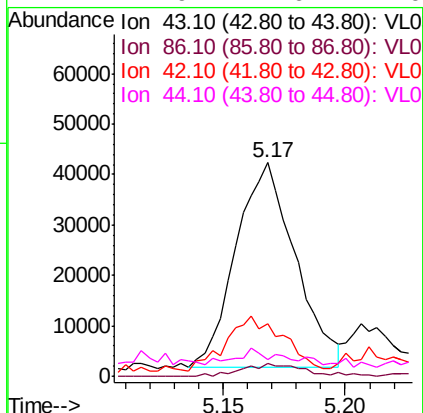
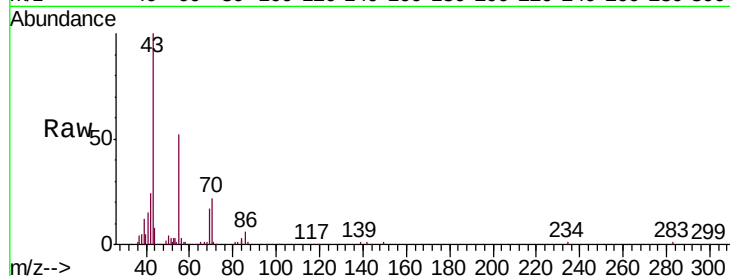




#23
 Vinyl Acetate
 Concen: 0.301 ppbv
 RT: 5.17 min Scan# 694
 Delta R.T. -0.03 min
 Lab File: VL032616.D
 Acq: 11 Oct 2018 22:47

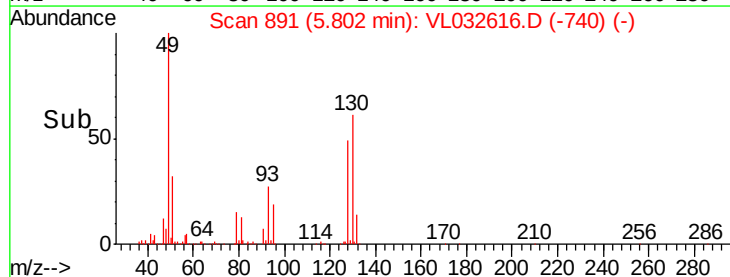
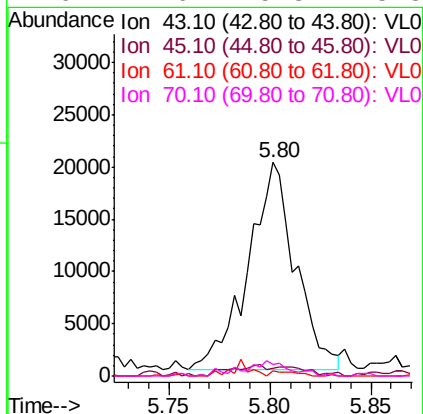
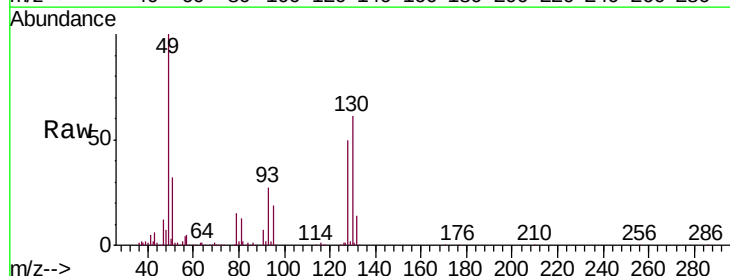
Instrument :
 MSVOA_L
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 Q2-SVI-100518DL

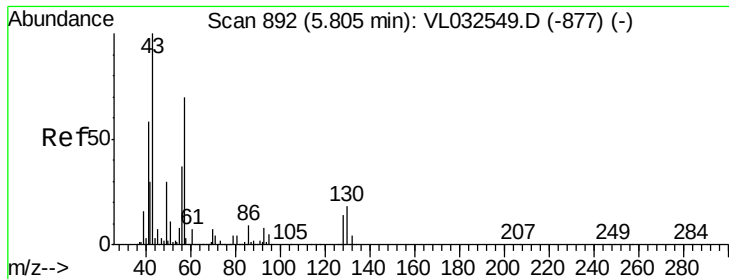
Tgt Ion:	43	Resp:	68191
Ion	Ratio	Lower	Upper
43	100		
86	6.4	5.9	8.9
42	22.8	6.9	10.3#
44	1.9	4.6	7.0#



#25
 Ethyl Acetate
 Concen: 0.105 ppbv
 RT: 5.80 min Scan# 891
 Delta R.T. -0.01 min
 Lab File: VL032616.D
 Acq: 11 Oct 2018 22:47

Tgt Ion:	43	Resp:	32465
Ion	Ratio	Lower	Upper
43	100		
45	8.1	8.0	12.0
61	4.4	7.6	11.4#
70	7.6	5.8	8.8

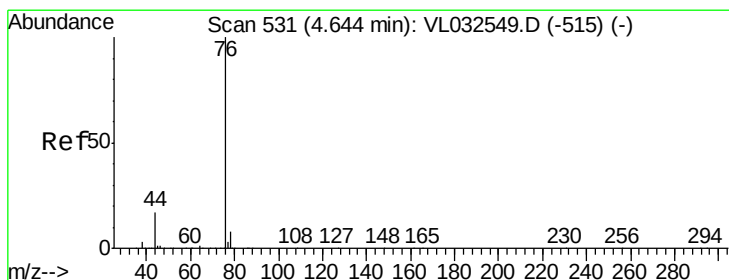
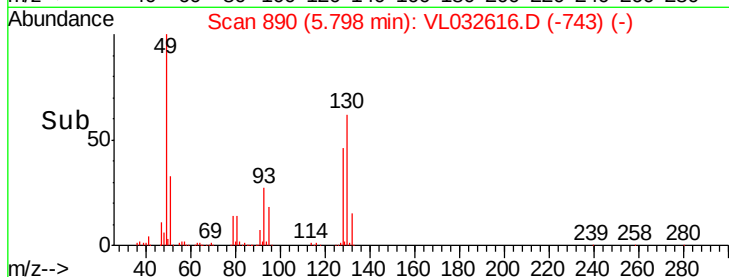
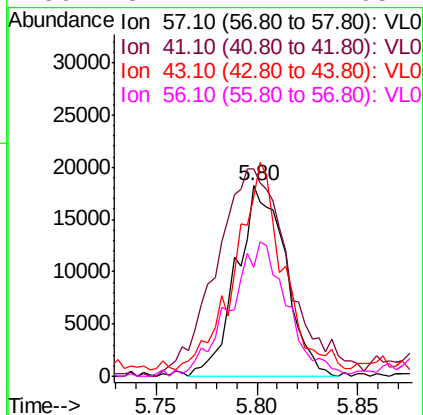
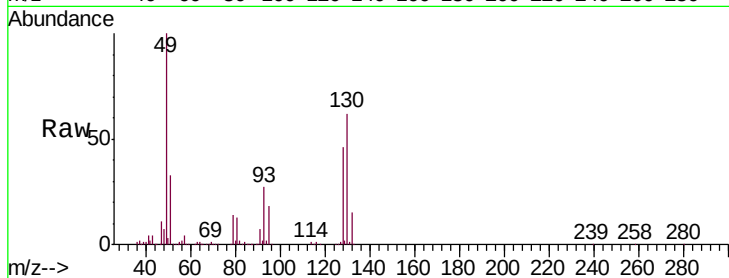




#26
Hexane
Concen: 0.221 ppbv
RT: 5.80 min Scan# 890
Delta R.T. -0.03 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

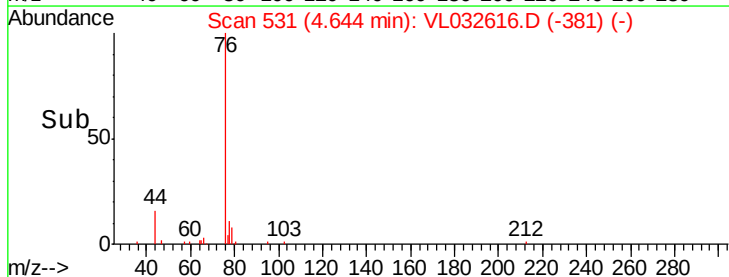
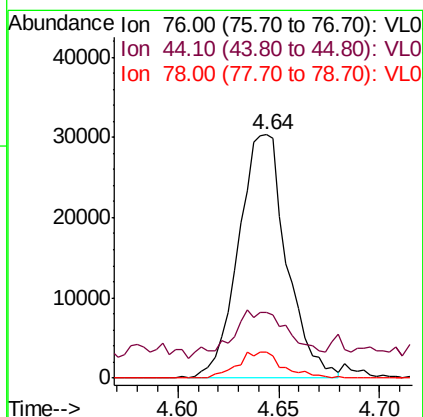
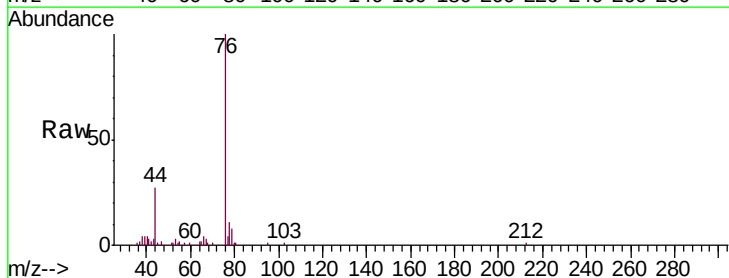
Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518DL

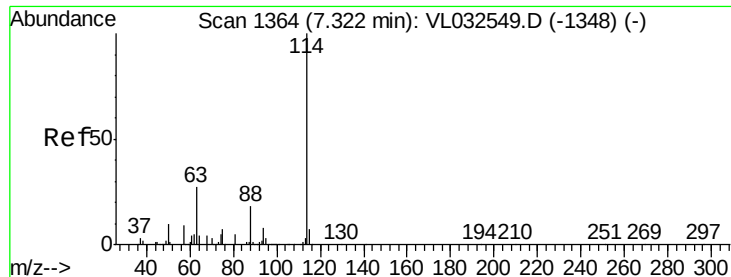
Tgt Ion: 57 Resp: 31034
Ion Ratio Lower Upper
57 100
41 154.6 69.0 103.4#
43 0.0 172.1 258.1#
56 82.2 42.2 63.2#



#27
Carbon Disulfide
Concen: 0.336 ppbv
RT: 4.64 min Scan# 531
Delta R.T. -0.02 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

Tgt Ion: 76 Resp: 50654
Ion Ratio Lower Upper
76 100
44 21.2 14.0 21.0#
78 10.2 7.5 11.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.32 min Scan# 1363

Delta R.T. -0.03 min

Lab File: VL032616.D

Acq: 11 Oct 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518DL

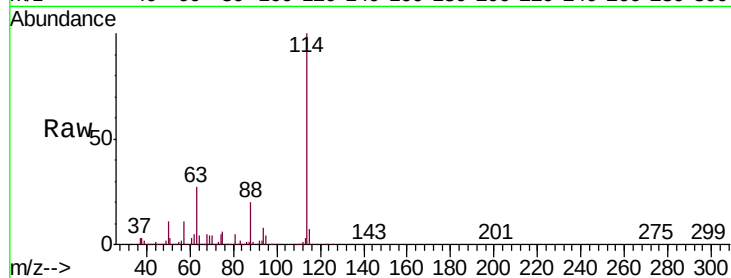
Tgt Ion:114 Resp: 3251531

Ion Ratio Lower Upper

114 100

63 27.0 22.2 33.4

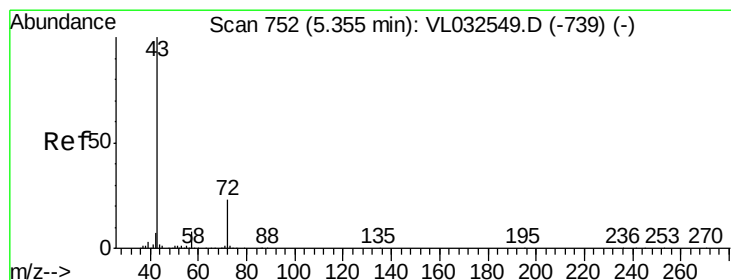
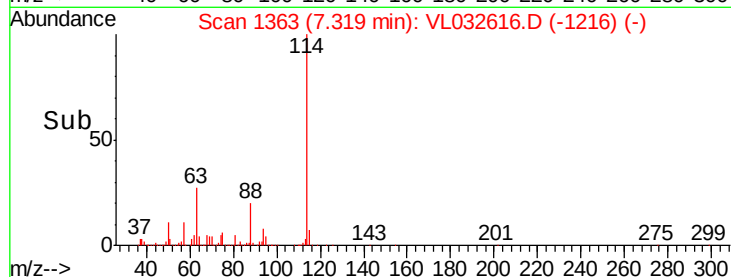
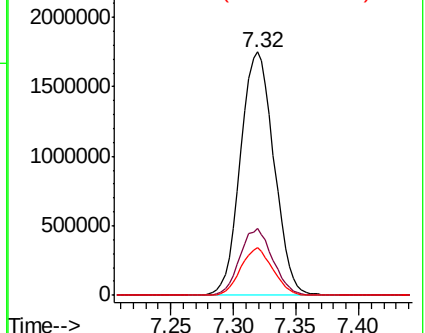
88 18.7 15.0 22.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.844 ppbv

RT: 5.35 min Scan# 750

Delta R.T. -0.02 min

Lab File: VL032616.D

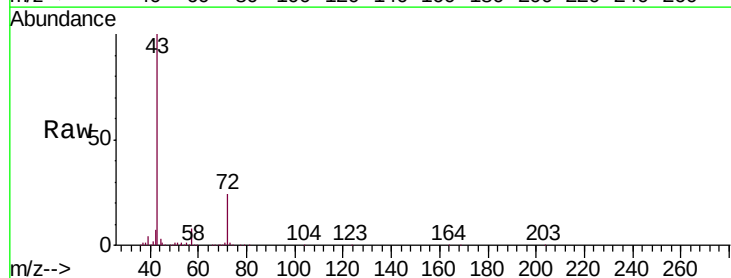
Acq: 11 Oct 2018 22:47

Tgt Ion: 43 Resp: 1906133

Ion Ratio Lower Upper

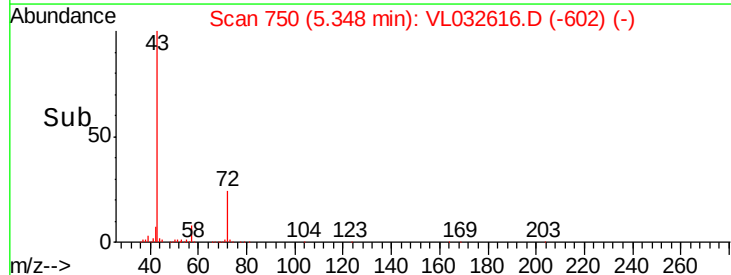
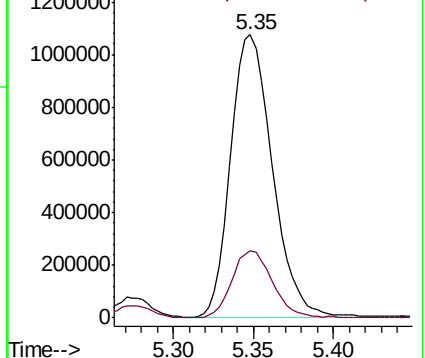
43 100

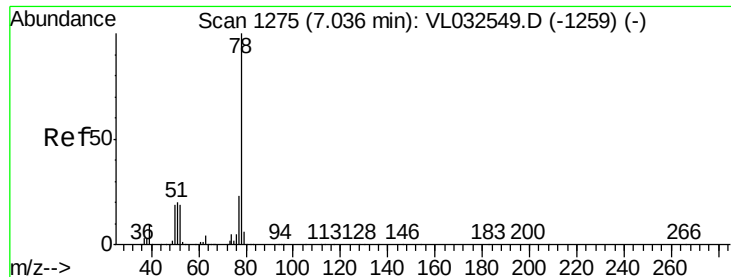
72 23.1 17.8 26.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

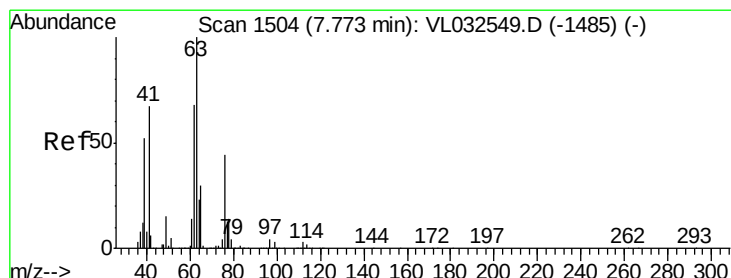
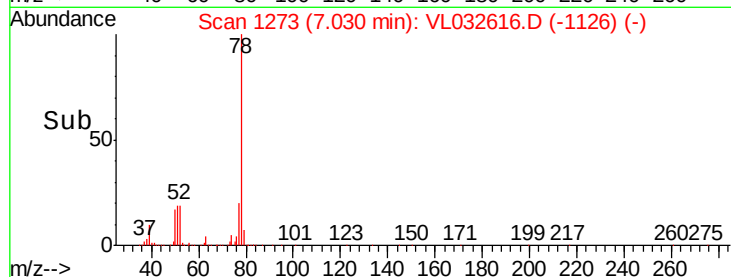
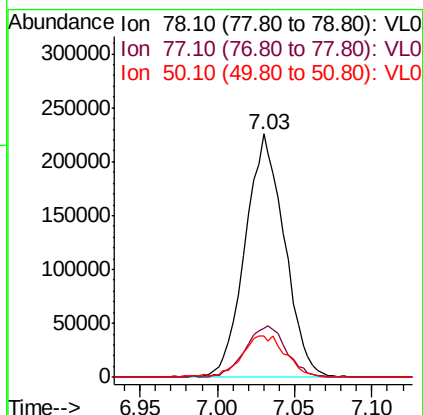
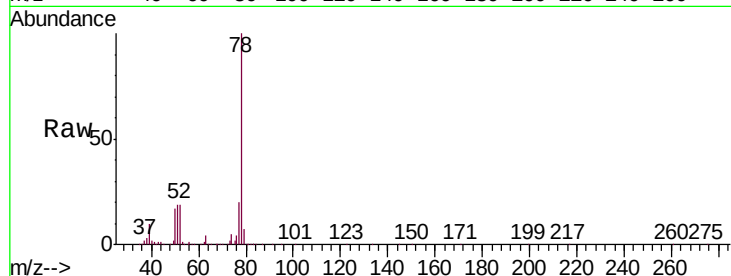




#36
Benzene
Concen: 1.519 ppbv
RT: 7.03 min Scan# 1273
Delta R.T. -0.03 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

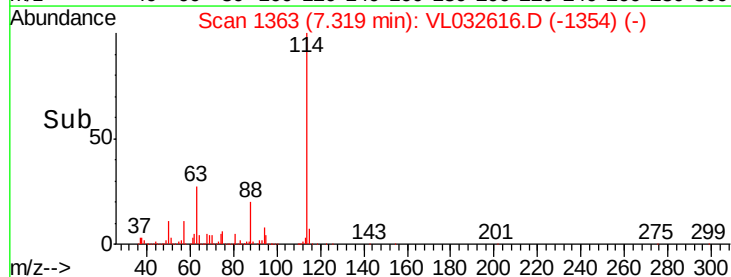
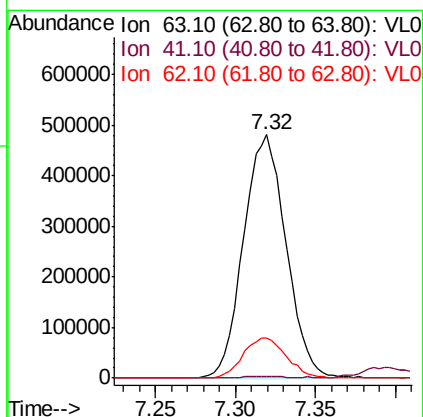
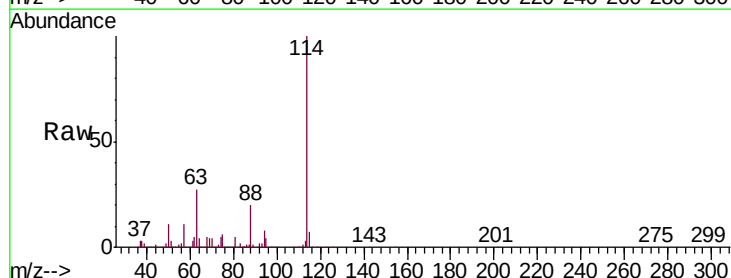
Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518DL

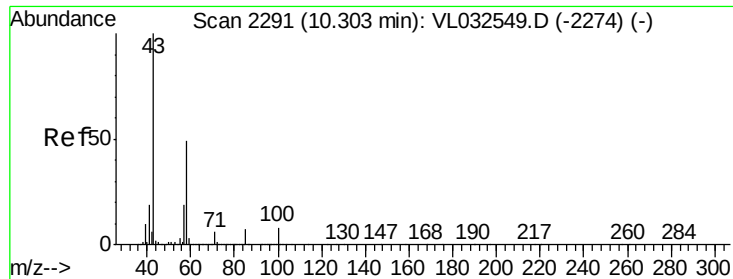
Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.9	18.4	27.6
50	17.1	14.4	21.6



#39
1,2-Dichloropropane
Concen: 7.356 ppbv
RT: 7.32 min Scan# 1363
Delta R.T. -0.47 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.2	55.4	83.0#
62	16.6	55.4	83.0#

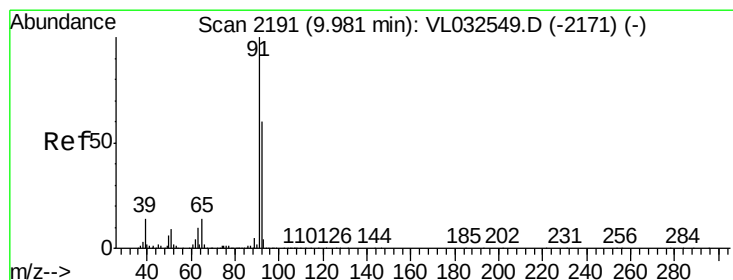
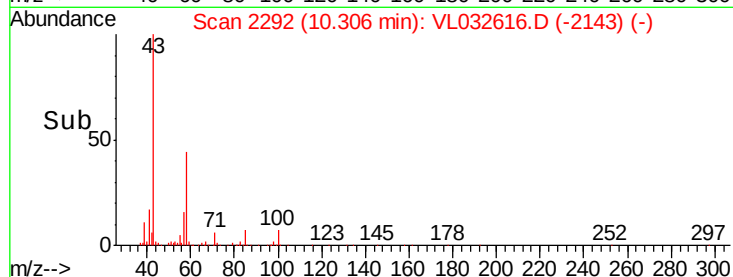
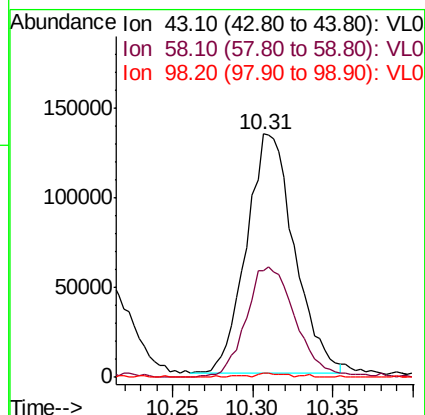
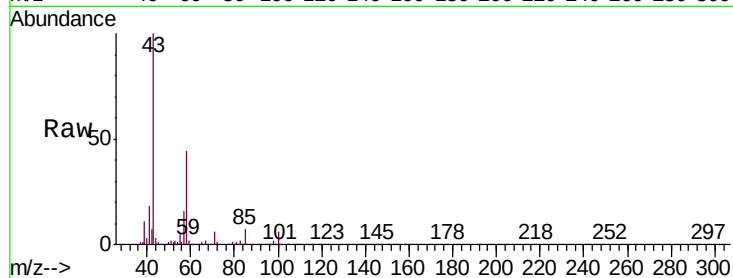




#51
2-Hexanone
Concen: 1.082 ppbv
RT: 10.31 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

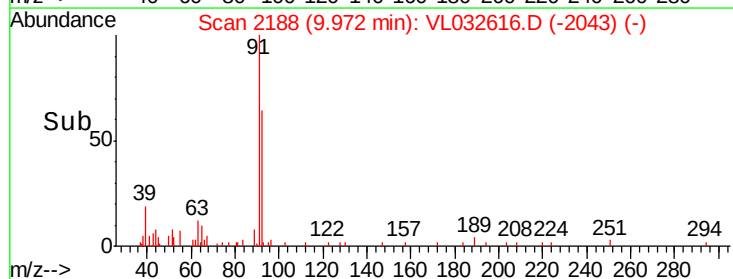
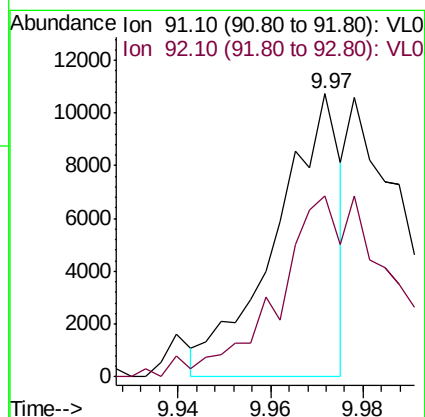
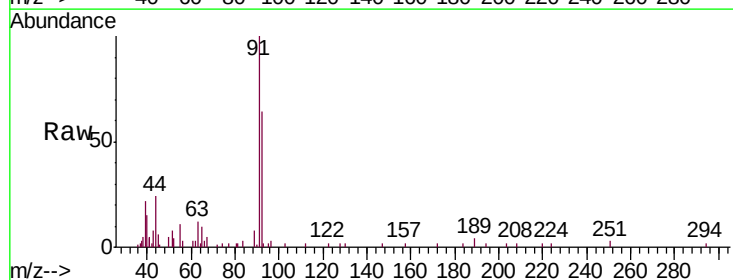
Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518DL

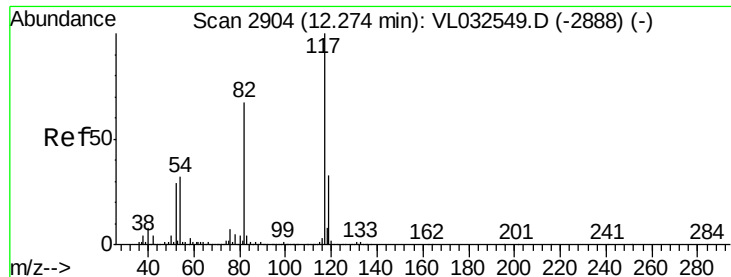
Tgt Ion: 43 Resp: 272253
Ion Ratio Lower Upper
43 100
58 47.9 39.2 58.8
98 1.6 0.4 0.6#



#53
Toluene
Concen: 0.032 ppbv
RT: 9.97 min Scan# 2188
Delta R.T. -0.03 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

Tgt Ion: 91 Resp: 10349
Ion Ratio Lower Upper
91 100
92 116.4 48.1 72.1#

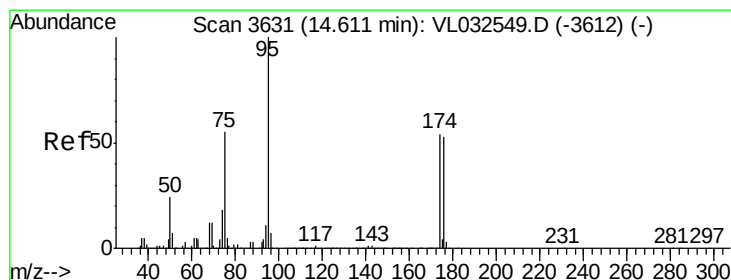
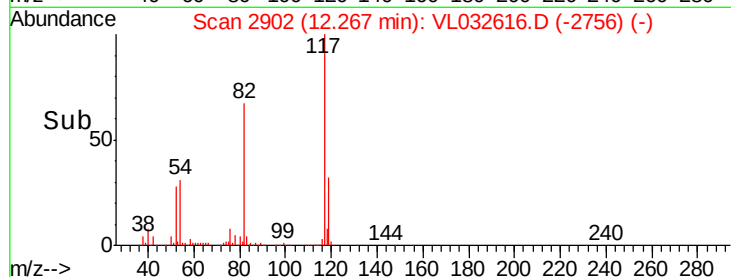
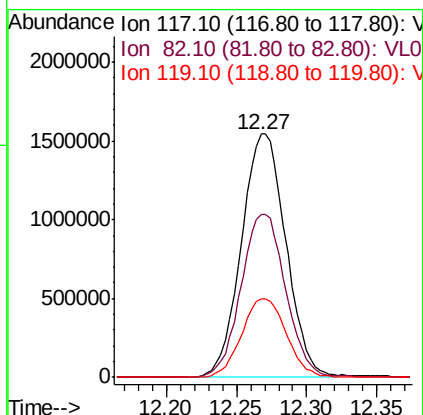
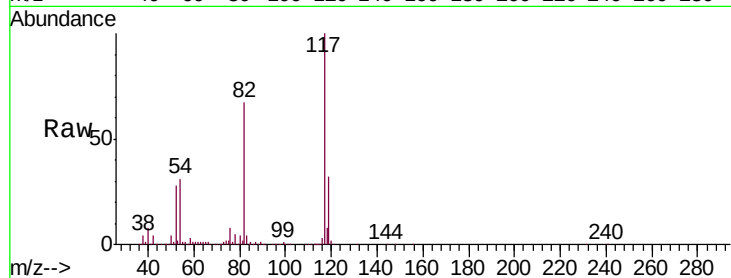




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.03 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518DL

Tgt Ion: 117 Resp: 3399400
Ion Ratio Lower Upper
117 100
82 68.1 53.0 79.6
119 32.7 45.9 68.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.648 ppbv
RT: 14.61 min Scan# 3629
Delta R.T. -0.03 min
Lab File: VL032616.D
Acq: 11 Oct 2018 22:47

Tgt Ion: 95 Resp: 2473296
Ion Ratio Lower Upper
95 100
174 58.1 46.3 69.5
175 4.2 3.4 5.0

