

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL091018\
 Data File : VL032488.D
 Acq On : 10 Sep 2018 21:24
 Operator : SY/AP
 Sample : J4820-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 241-BERRY

Quant Time: Sep 11 01:11:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31 21:33:46 2018
 QLast Update : Fri Aug 31 21:33:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1452605	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.33	114	3344254	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.28	117	3075626	10.00	ppbv	-0.01

System Monitoring Compounds

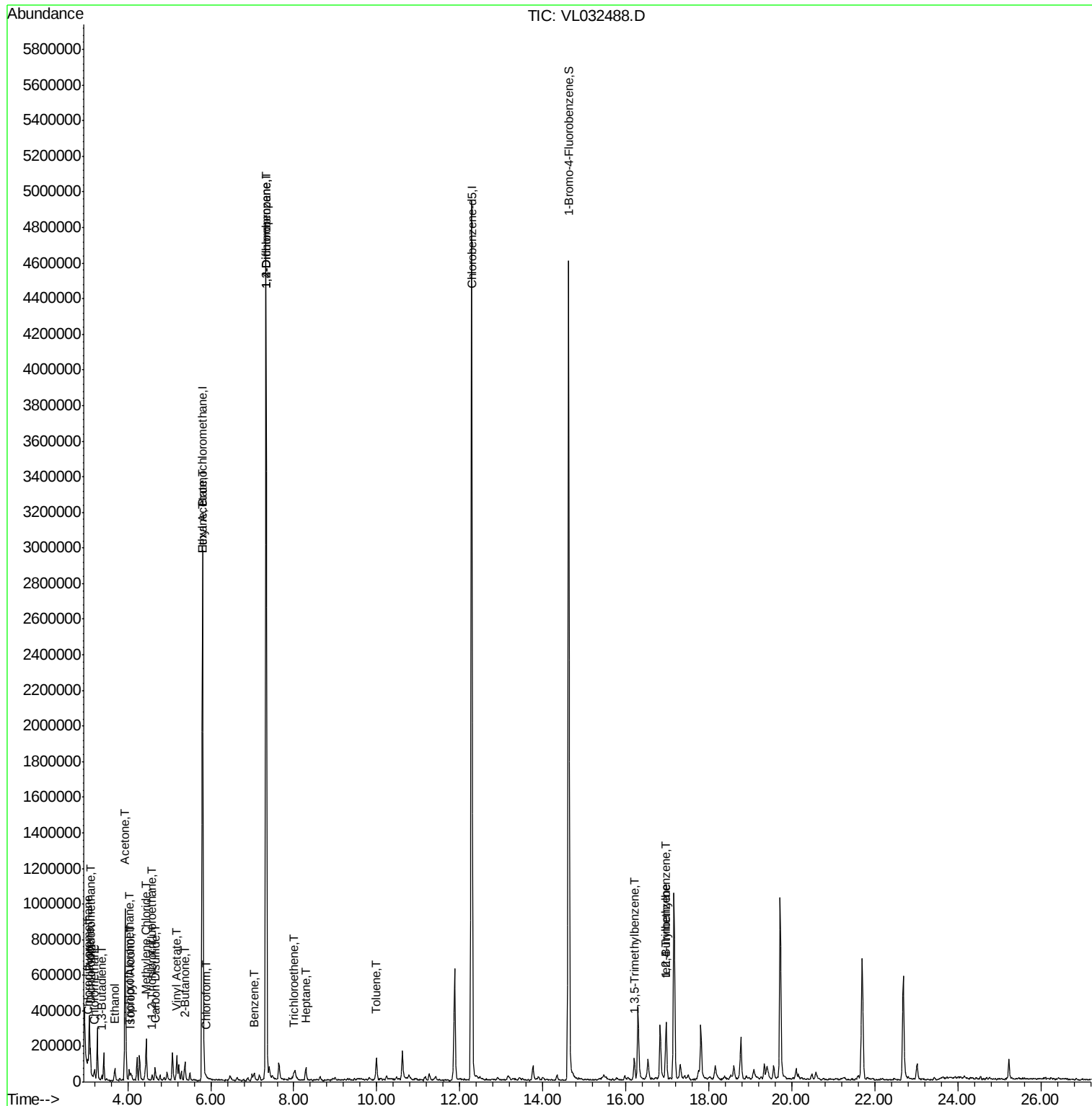
68) 1-Bromo-4-Fluorobenzene	14.62	95	2294127	10.05	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

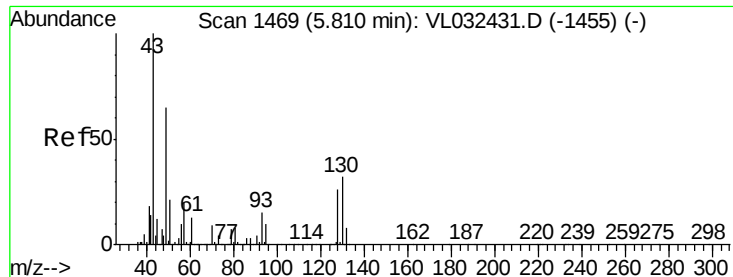
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.10	85	98294	0.529	ppbv	99
3) Chlorodifluoromethane	3.04	51	66909	0.509	ppbv #	91
4) Chloromethane	3.20	50	41792	0.525	ppbv	94
9) Propene	3.07	41	42243	0.796	ppbv #	77
10) Heptane	8.28	43	9917	0.052	ppbv #	1
11) Trichlorofluoromethane	4.04	101	39237	0.234	ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.59	101	9638	0.085	ppbv	90
13) Ethanol	3.68	45	71658	4.334	ppbv	95
15) Acetone	3.93	43	966204	7.386	ppbv	97
16) 1,3-Butadiene	3.37	39	3245	0.053	ppbv #	35
19) Isopropyl Alcohol	4.07	45	34593	0.403	ppbv #	93
20) Methylene Chloride	4.44	84	79394	1.592	ppbv	95
23) Vinyl Acetate	5.18	43	75445	0.348	ppbv #	68
25) Ethyl Acetate	5.81	43	133583	0.432	ppbv #	95
26) Hexane	5.81	57	95412	0.690	ppbv #	68
27) Carbon Disulfide	4.66	76	30677	0.240	ppbv #	61
29) Chloroform	5.88	83	6622	0.031	ppbv #	79
34) 2-Butanone	5.37	43	116117	0.523	ppbv	100
36) Benzene	7.05	78	13480	0.047	ppbv	96
38) Trichloroethene	8.00	130	7213	0.067	ppbv #	91
39) 1,2-Dichloropropane	7.33	63	916909	7.530	ppbv #	25
53) Toluene	9.99	91	82729	0.278	ppbv	94
65) tert-Butylbenzene	16.96	119	11980	0.031	ppbv #	1
73) 1,3,5-Trimethylbenzene	16.20	105	71131	0.202	ppbv	99
74) 1,2,4-Trimethylbenzene	16.97	105	222312	0.577	ppbv #	68

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

Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_L\DATA\VL091018\
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Misc : 400ml/MSV0A_L
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Quant Time: Sep 11 01:11:46 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 31 21:33:46 2018
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 890

Delta R.T. -0.01 min

Lab File: VL032488.D

Acq: 10 Sep 2018 21:24

Instrument :

MSVOA_L

ClientSampleId :

241-BERRY

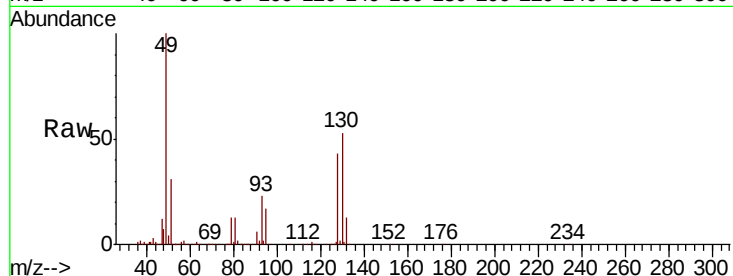
Tgt Ion: 49 Resp: 1452605

Ion Ratio Lower Upper

49 100

128 42.9 20.7 62.1

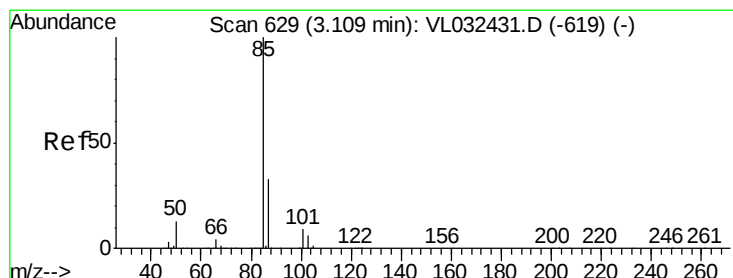
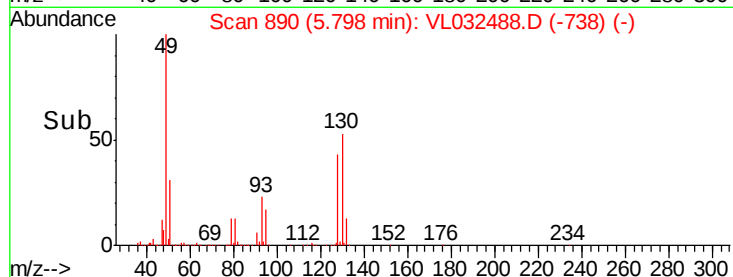
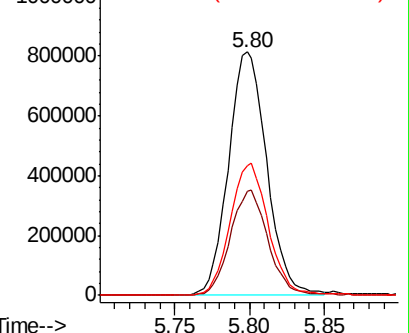
130 54.6 26.6 79.7



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: 0.529 ppbv

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032488.D

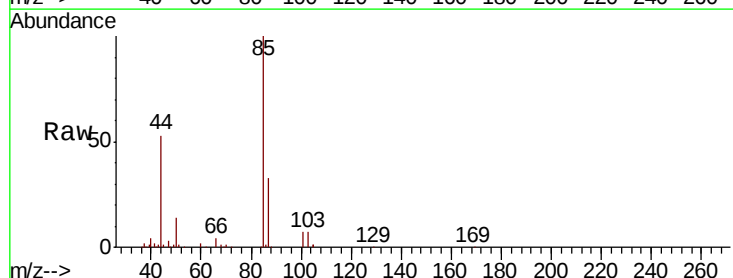
Acq: 10 Sep 2018 21:24

Tgt Ion: 85 Resp: 98294

Ion Ratio Lower Upper

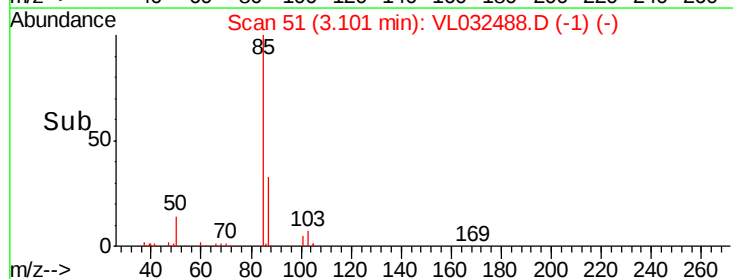
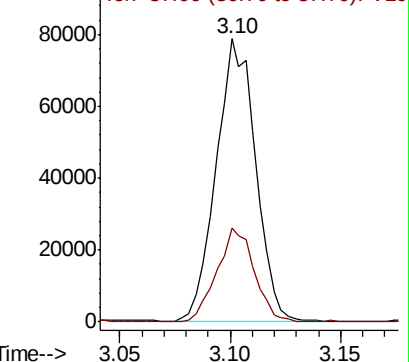
85 100

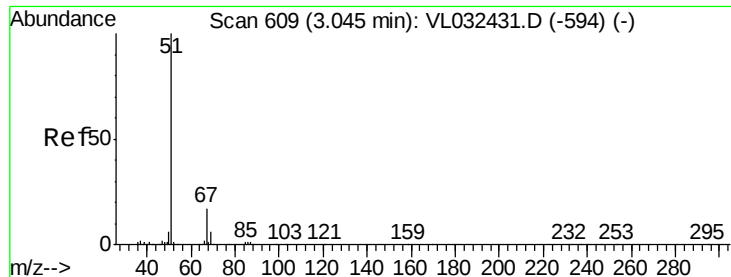
87 33.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

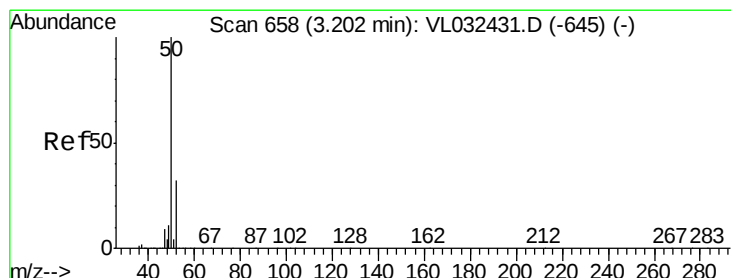
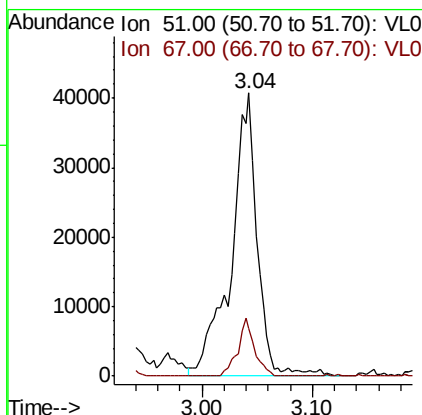
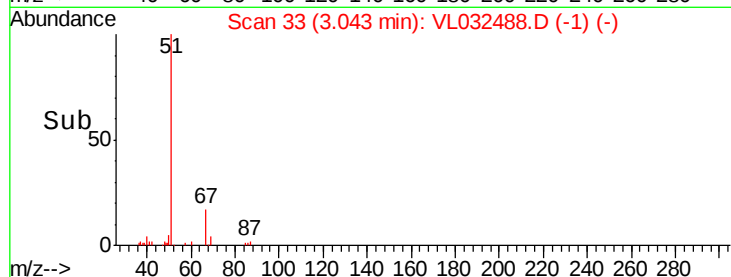
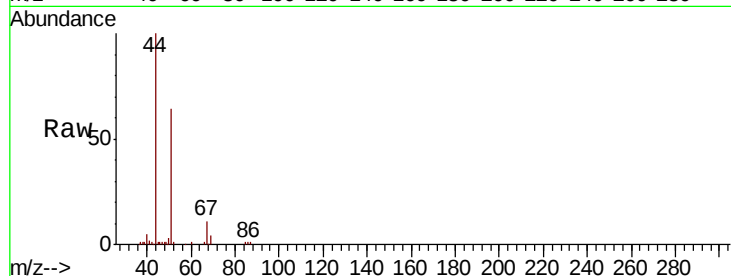




#3
Chlorodifluoromethane
Concen: 0.509 ppbv
RT: 3.04 min Scan# 33
Delta R.T. -0.00 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

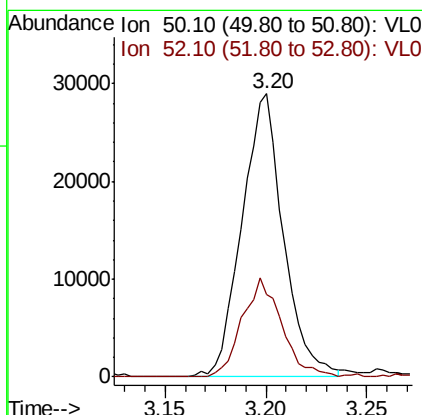
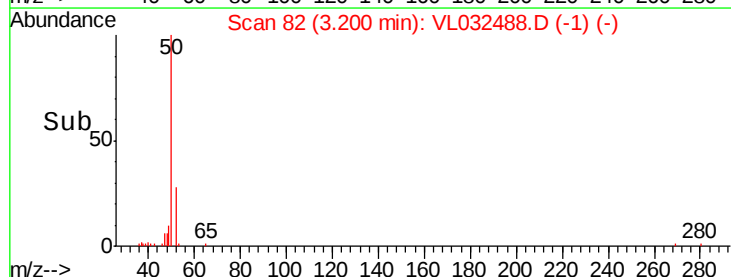
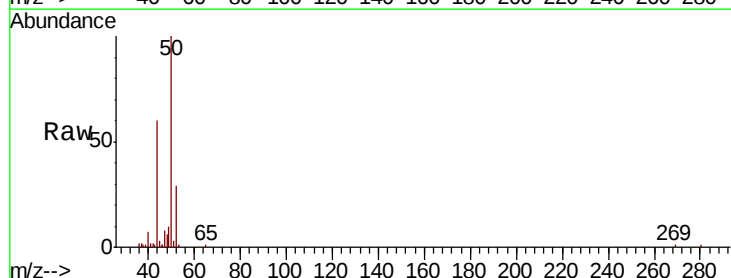
Instrument :
MSVOA_L
ClientSampleId :
241-BERRY

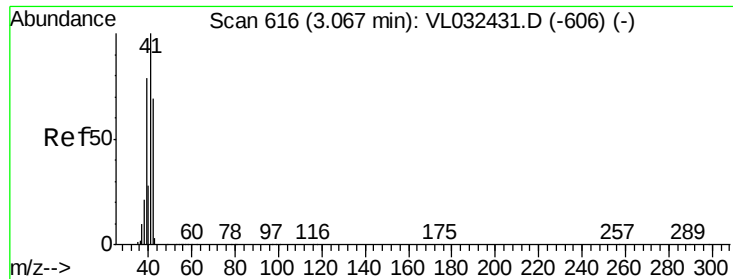
Tgt Ion: 51 Resp: 66909
Ion Ratio Lower Upper
51 100
67 13.2 13.8 20.8#



#4
Chloromethane
Concen: 0.525 ppbv
RT: 3.20 min Scan# 82
Delta R.T. -0.00 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

Tgt Ion: 50 Resp: 41792
Ion Ratio Lower Upper
50 100
52 28.9 25.6 38.4





#9

Propene

Concen: 0.796 ppbv

RT: 3.07 min Scan# 42

Delta R.T. 0.00 min

Lab File: VL032488.D

Acq: 10 Sep 2018 21:24

Instrument :

MSVOA_L

ClientSampleId :

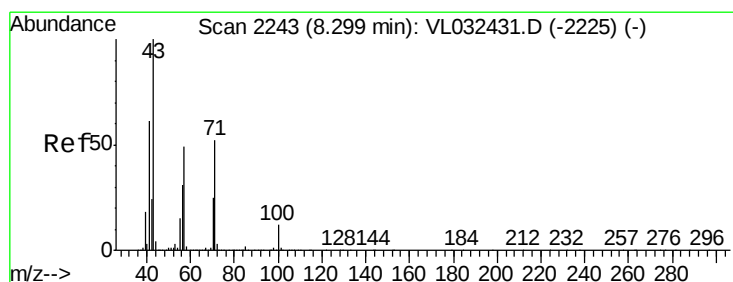
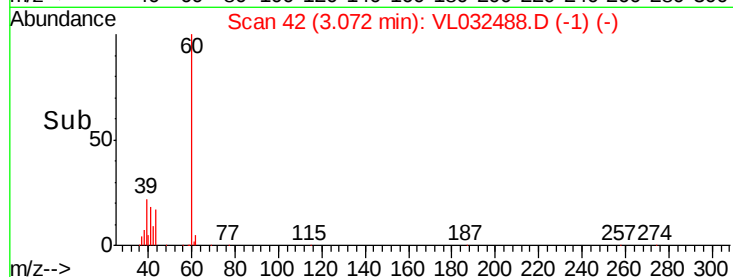
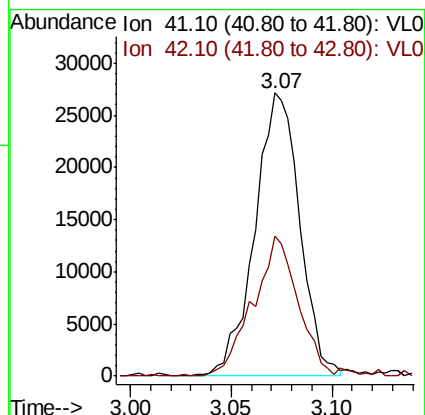
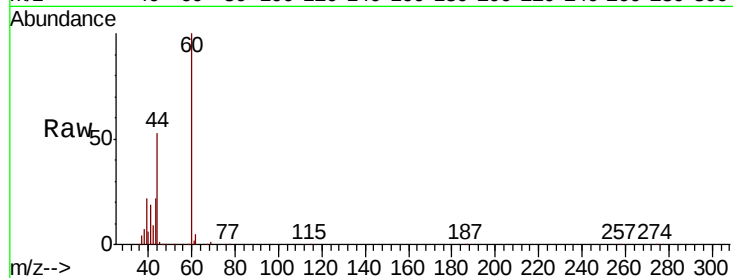
241-BERRY

Tgt Ion: 41 Resp: 42243

Ion Ratio Lower Upper

41 100

42 51.6 56.6 84.8#



#10

Heptane

Concen: 0.052 ppbv

RT: 8.28 min Scan# 1663

Delta R.T. -0.01 min

Lab File: VL032488.D

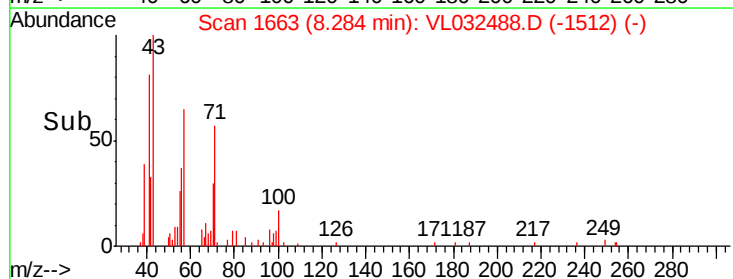
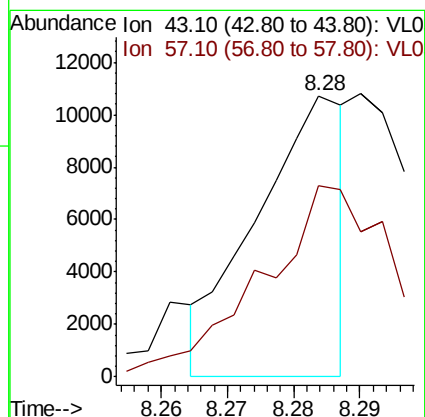
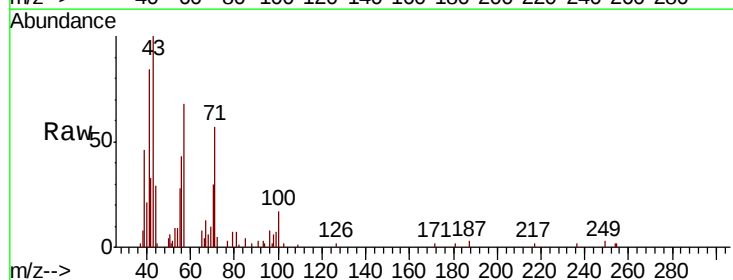
Acq: 10 Sep 2018 21:24

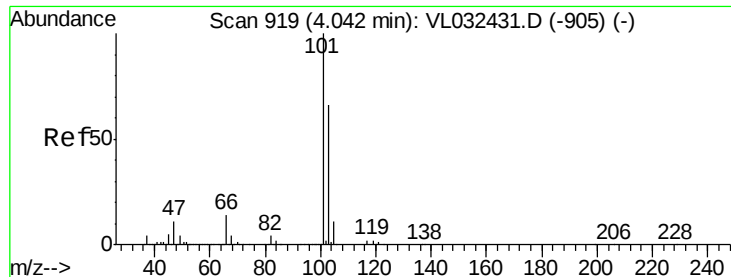
Tgt Ion: 43 Resp: 9917

Ion Ratio Lower Upper

43 100

57 120.9 39.6 59.4#





#11

Trichlorofluoromethane

Concen: 0.234 ppbv

RT: 4.04 min Scan# 343

Delta R.T. -0.00 min

Lab File: VL032488.D

Acq: 10 Sep 2018 21:24

Instrument :

MSVOA_L

ClientSampleId :

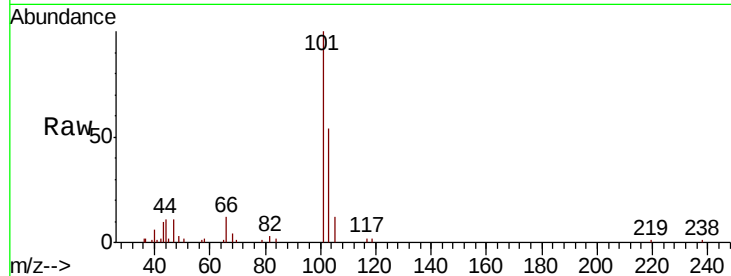
241-BERRY

Tgt Ion:101 Resp: 39237

Ion Ratio Lower Upper

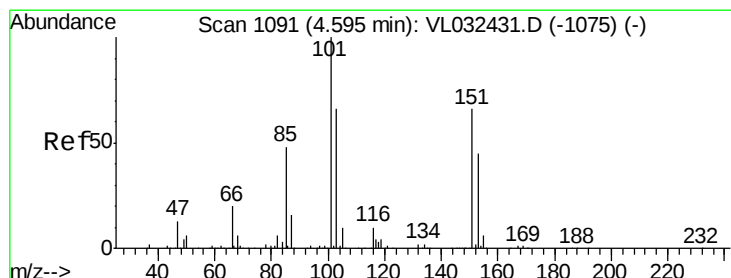
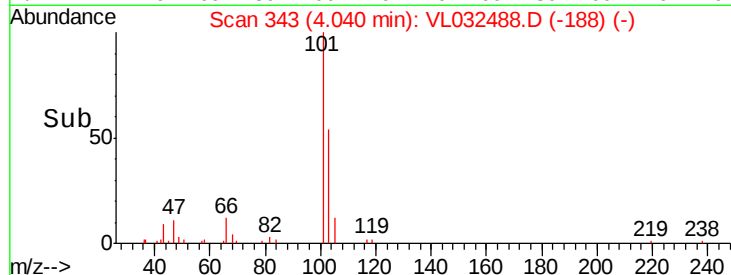
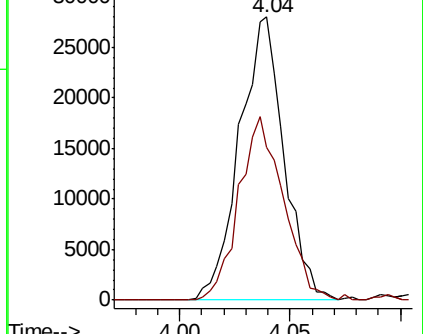
101 100

103 54.0 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.085 ppbv

RT: 4.59 min Scan# 513

Delta R.T. -0.01 min

Lab File: VL032488.D

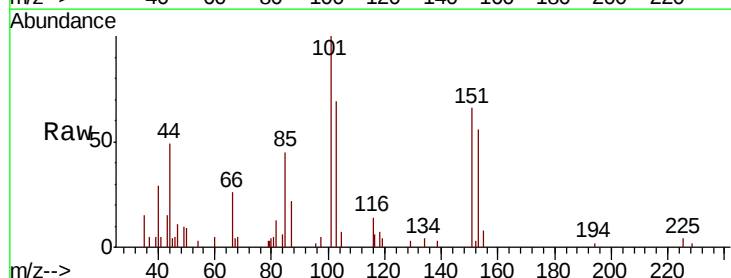
Acq: 10 Sep 2018 21:24

Tgt Ion:101 Resp: 9638

Ion Ratio Lower Upper

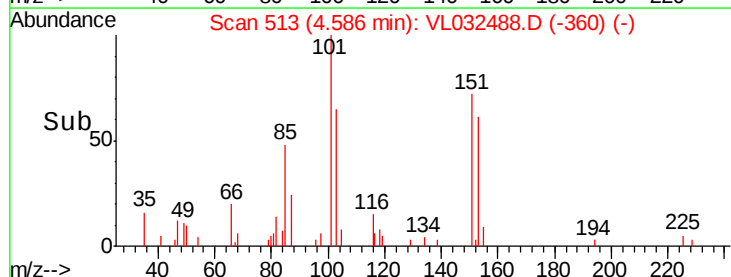
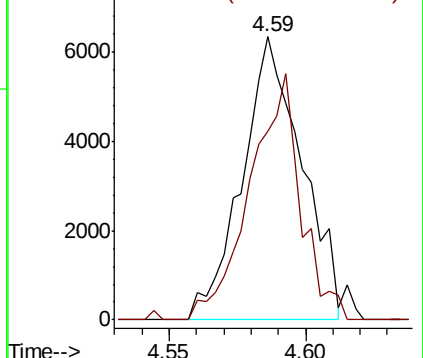
101 100

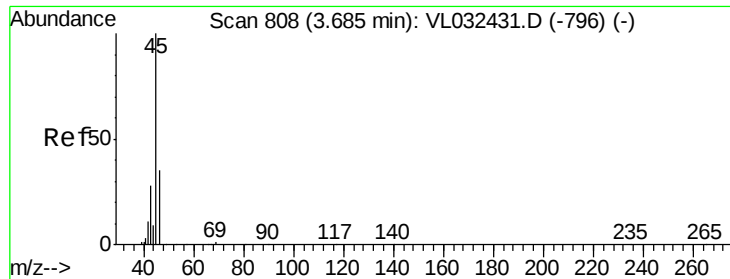
151 73.9 52.6 78.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 4.334 ppbv

RT: 3.68 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL032488.D

Acq: 10 Sep 2018 21:24

Instrument :

MSVOA_L

ClientSampleId :

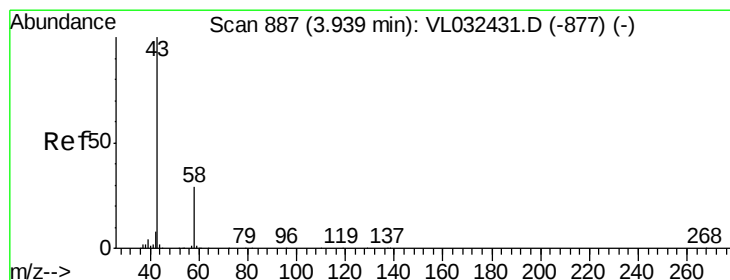
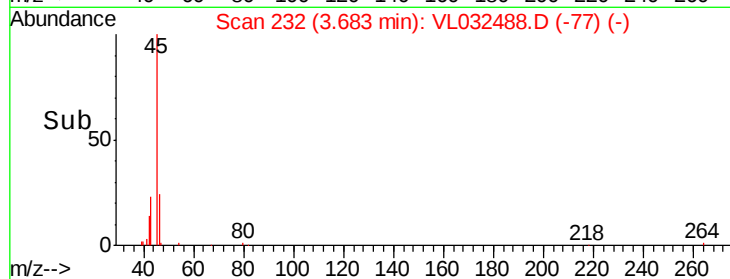
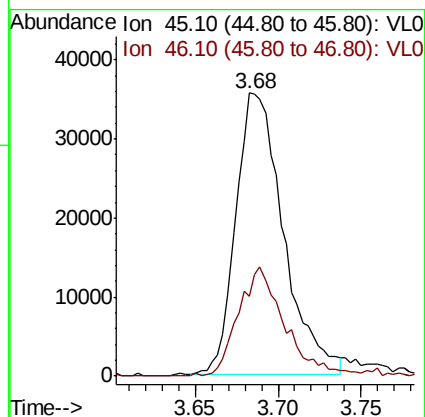
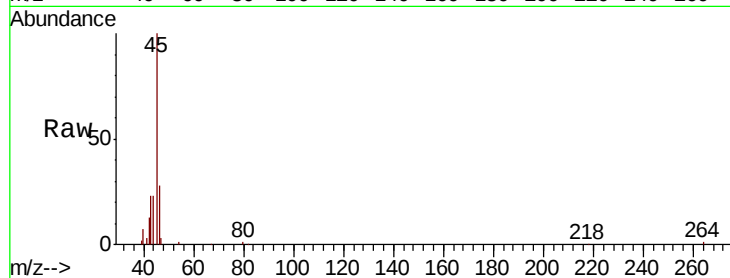
241-BERRY

Tgt Ion: 45 Resp: 71658

Ion Ratio Lower Upper

45 100

46 38.4 14.2 56.8



#15

Acetone

Concen: 7.386 ppbv

RT: 3.93 min Scan# 310

Delta R.T. -0.01 min

Lab File: VL032488.D

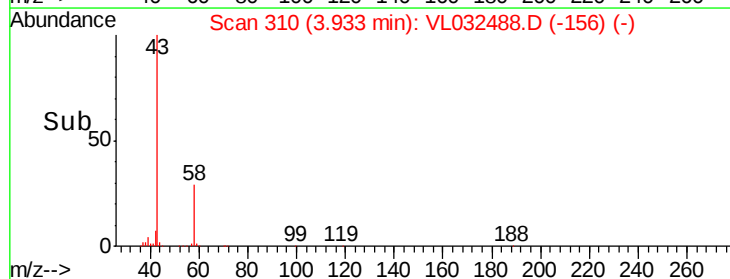
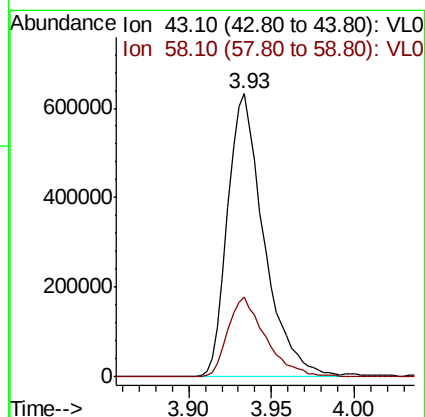
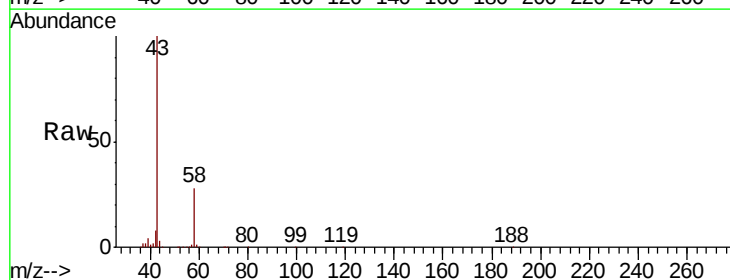
Acq: 10 Sep 2018 21:24

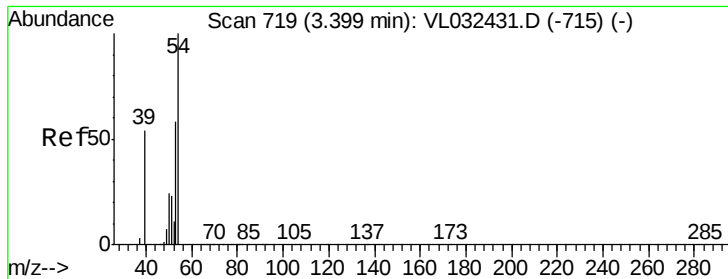
Tgt Ion: 43 Resp: 966204

Ion Ratio Lower Upper

43 100

58 29.7 22.6 33.8

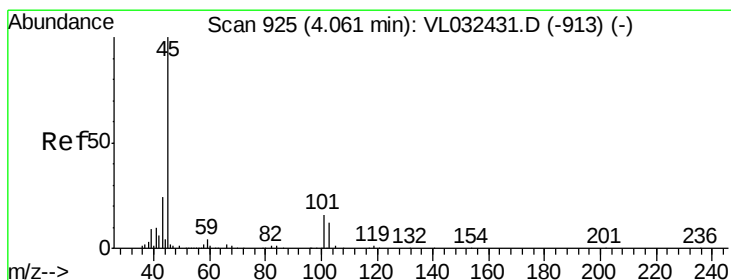
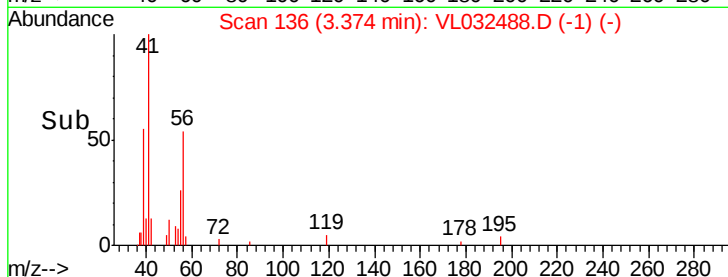
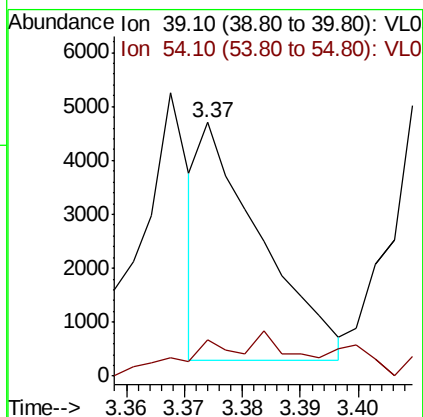
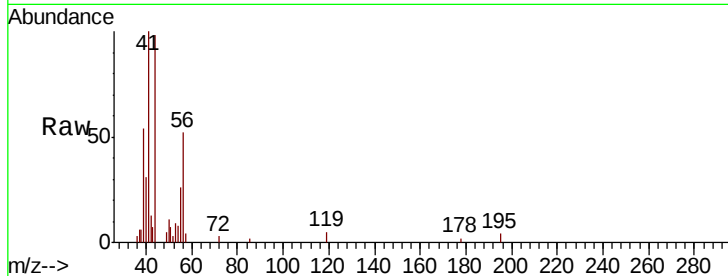




#16
 1,3-Butadiene
 Concen: 0.053 ppbv
 RT: 3.37 min Scan# 136
 Delta R.T. -0.02 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

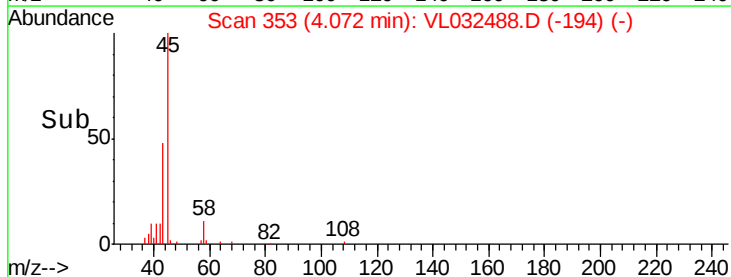
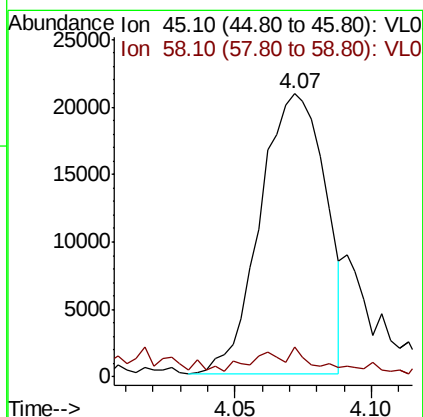
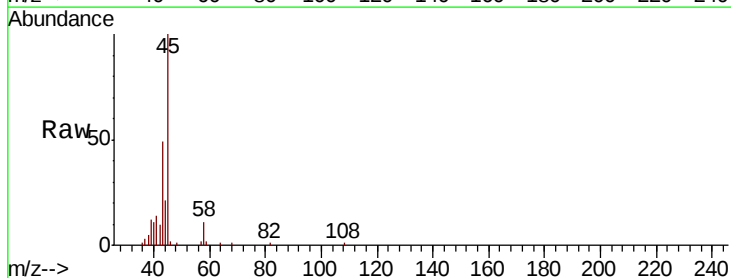
Instrument :
 MSVOA_L
 ClientSampled :
 241-BERRY

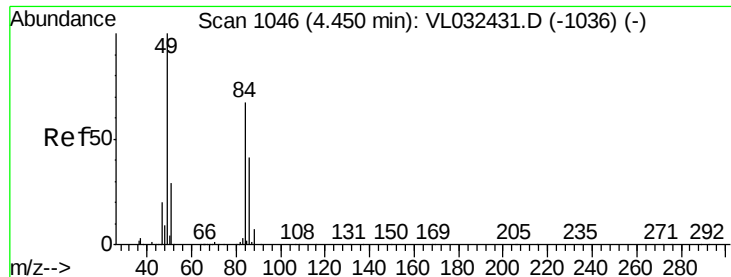
Tgt Ion: 39 Resp: 3245
 Ion Ratio Lower Upper
 39 100
 54 35.7 80.8 121.2#



#19
 Isopropyl Alcohol
 Concen: 0.403 ppbv
 RT: 4.07 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

Tgt Ion: 45 Resp: 34593
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.0 3.0#

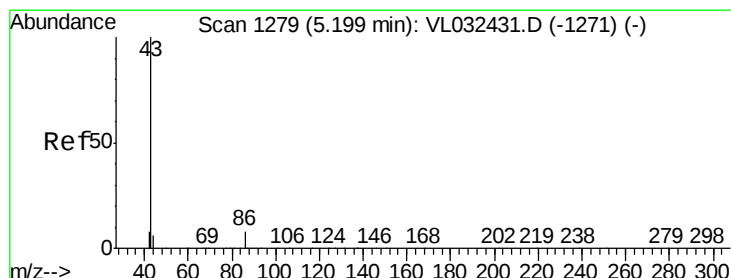
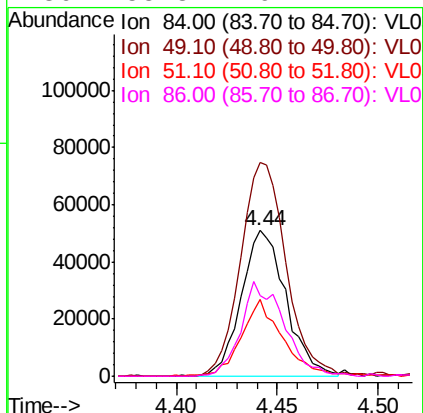
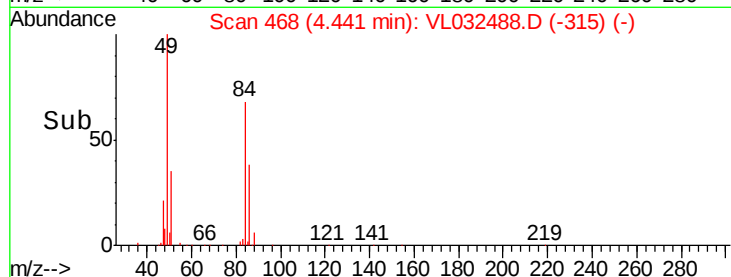
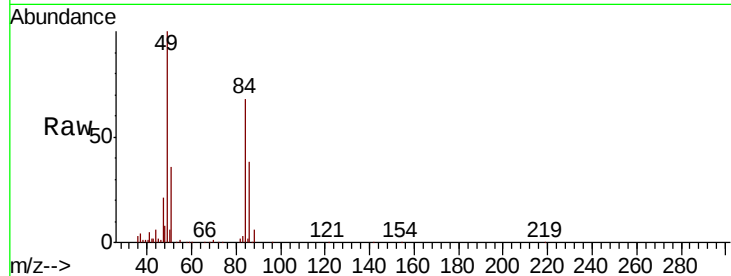




#20
Methylene Chloride
Concen: 1.592 ppbv
RT: 4.44 min Scan# 468
Delta R.T. -0.01 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

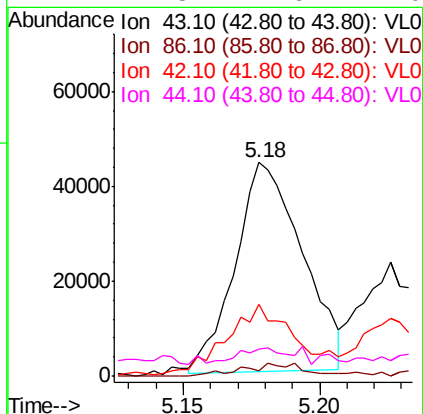
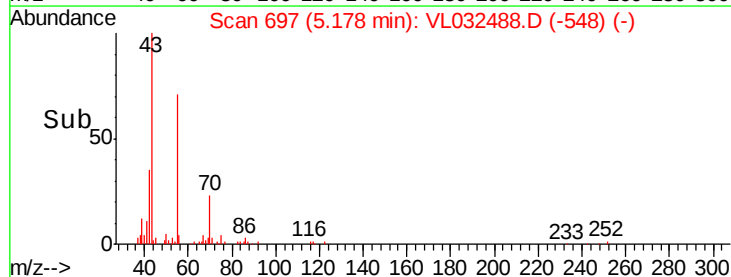
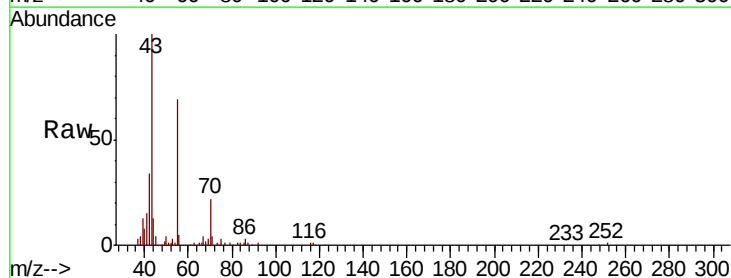
Instrument :
MSVOA_L
ClientSampleId :
241-BERRY

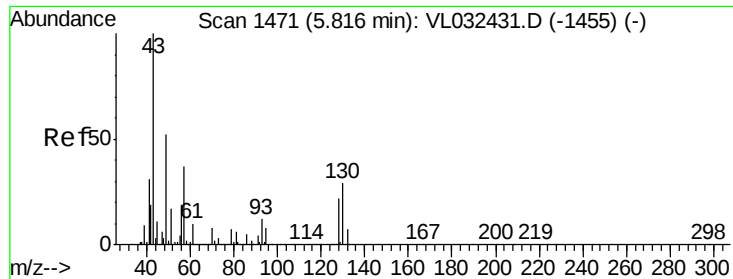
Tgt Ion:	84	Resp:	79394
Ion	Ratio	Lower	Upper
84	100		
49	146.6	119.1	178.7
51	52.4	35.2	52.8
86	55.8	49.4	74.2



#23
Vinyl Acetate
Concen: 0.348 ppbv
RT: 5.18 min Scan# 697
Delta R.T. -0.02 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

Tgt Ion:	43	Resp:	75445
Ion	Ratio	Lower	Upper
43	100		
86	2.7	5.9	8.9#
42	31.9	6.9	10.3#
44	7.8	4.6	7.0#

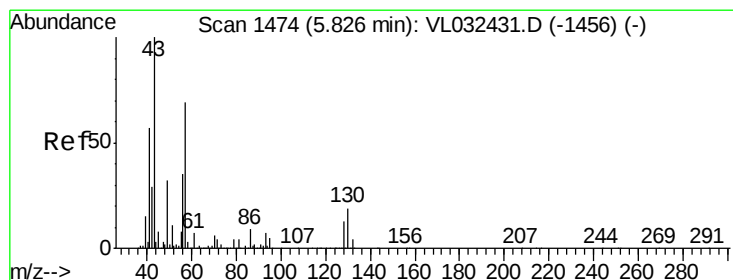
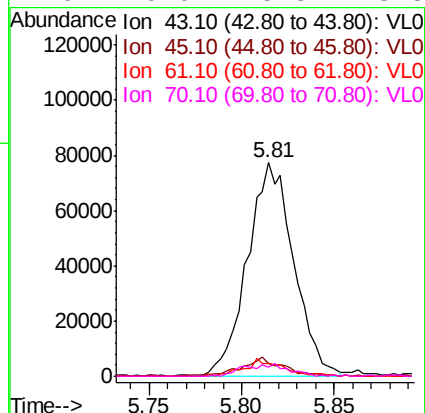
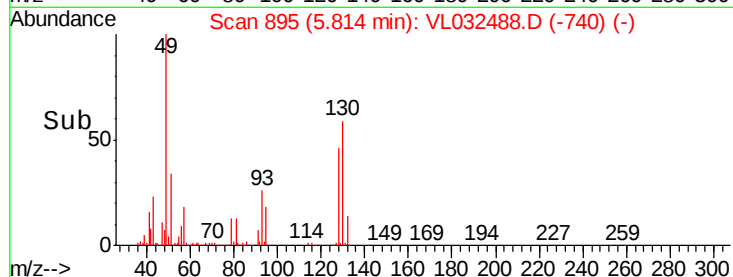
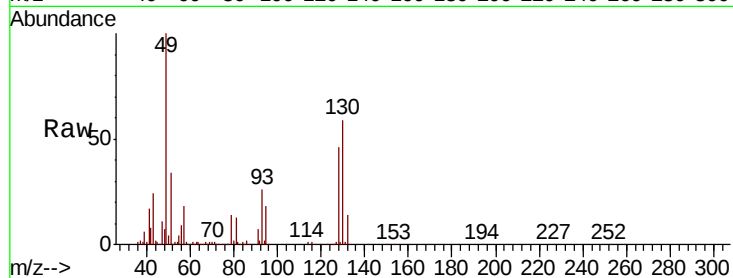




#25
Ethyl Acetate
Concen: 0.432 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

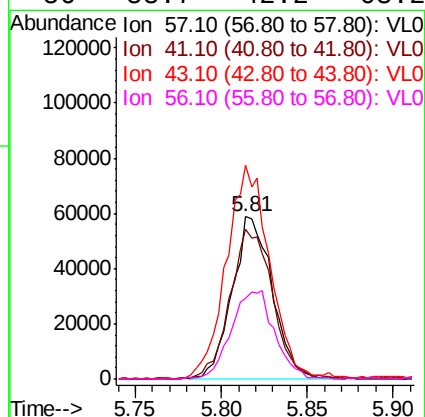
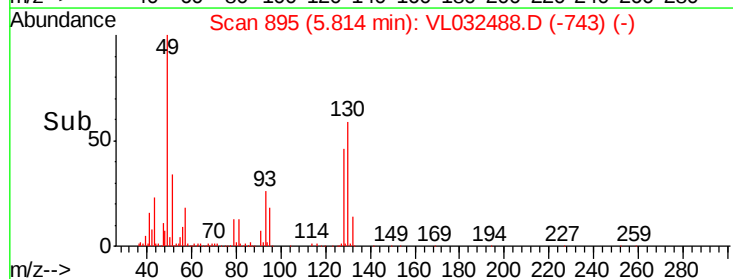
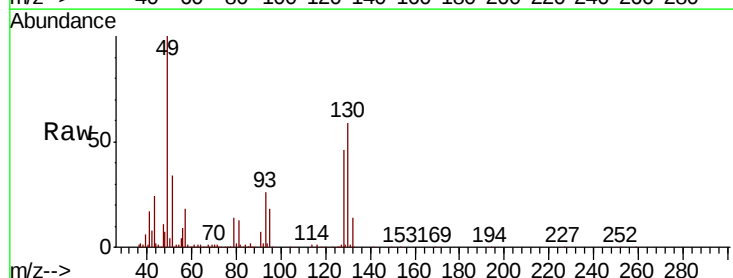
Instrument :
MSVOA_L
ClientSampleId :
241-BERRY

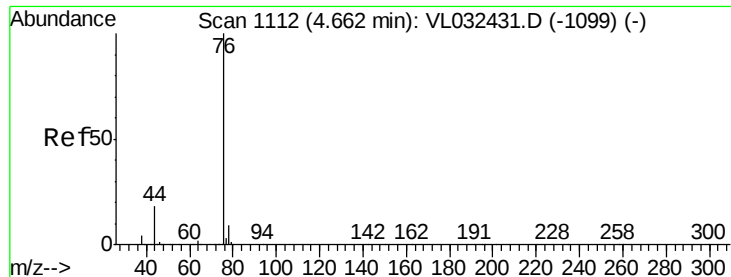
Tgt Ion:	43	Resp:	133583
Ion	Ratio	Lower	Upper
43	100		
45	8.3	8.0	12.0
61	7.1	7.6	11.4#
70	6.0	5.8	8.8



#26
Hexane
Concen: 0.690 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

Tgt Ion:	57	Resp:	95412
Ion	Ratio	Lower	Upper
57	100		
41	98.2	69.0	103.4
43	143.2	172.1	258.1#
56	58.7	42.2	63.2





#27

Carbon Disulfide

Concen: 0.240 ppbv

RT: 4.66 min Scan# 536

Delta R.T. -0.00 min

Lab File: VL032488.D

Acq: 10 Sep 2018 21:24

Instrument :

MSVOA_L

ClientSampleId :

241-BERRY

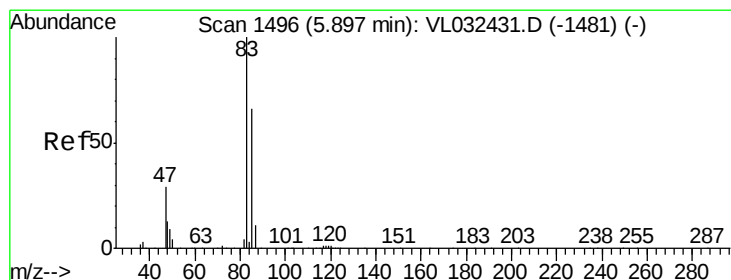
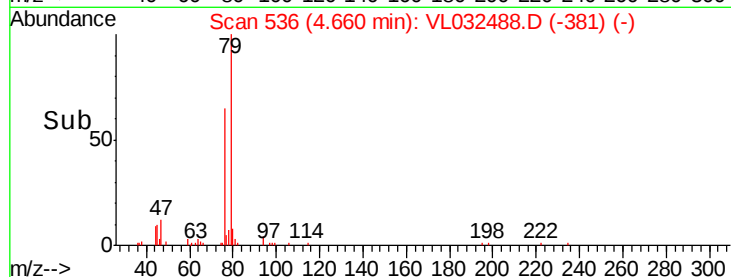
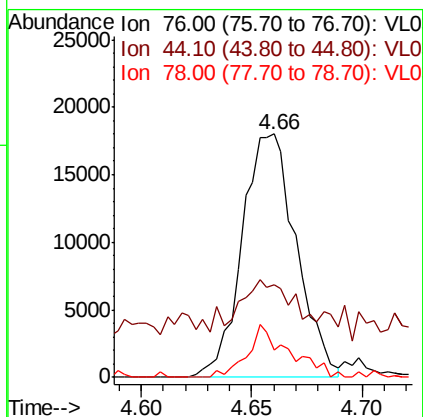
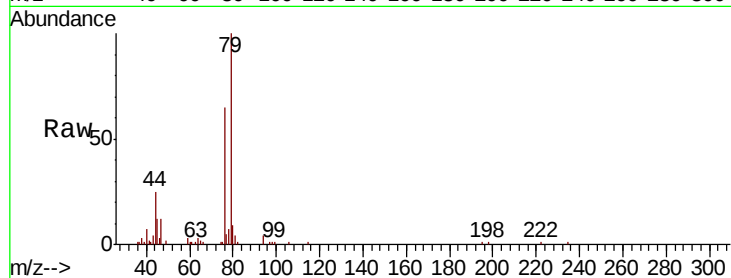
Tgt Ion: 76 Resp: 30677

Ion Ratio Lower Upper

76 100

44 38.9 14.0 21.0#

78 16.5 7.5 11.3#



#29

Chloroform

Concen: 0.031 ppbv

RT: 5.88 min Scan# 916

Delta R.T. -0.01 min

Lab File: VL032488.D

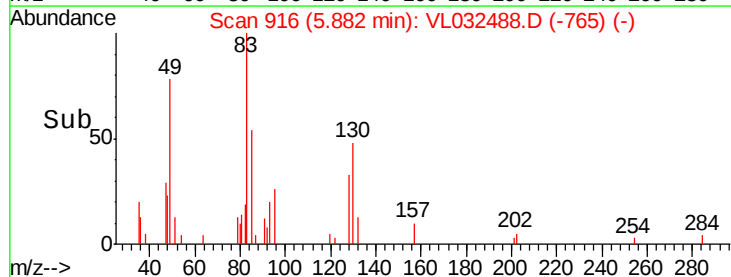
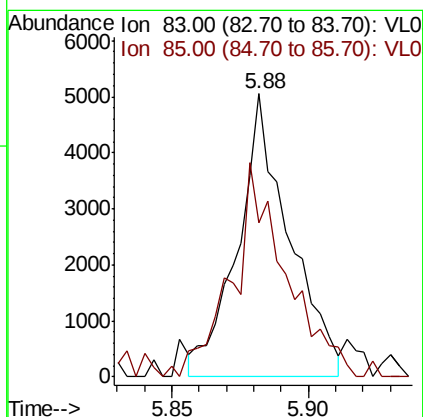
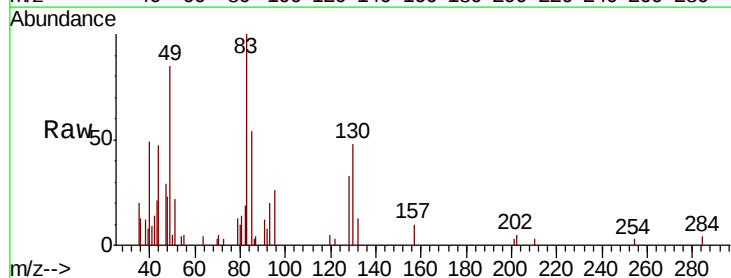
Acq: 10 Sep 2018 21:24

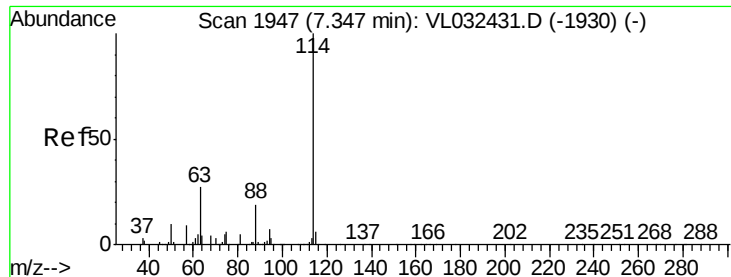
Tgt Ion: 83 Resp: 6622

Ion Ratio Lower Upper

83 100

85 48.8 52.5 78.7#

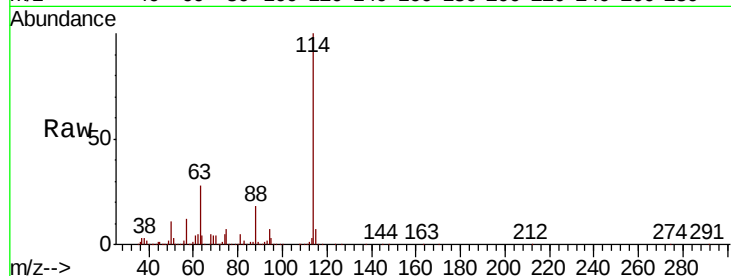




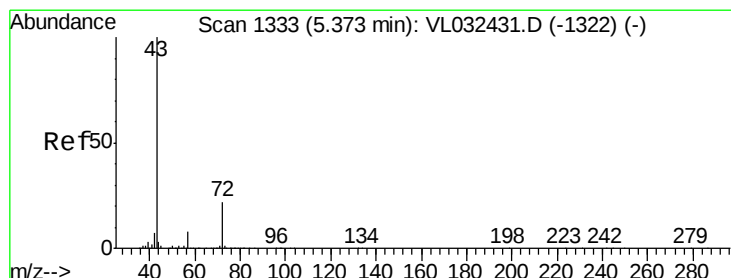
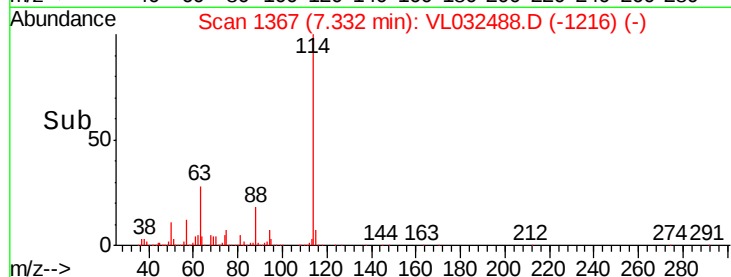
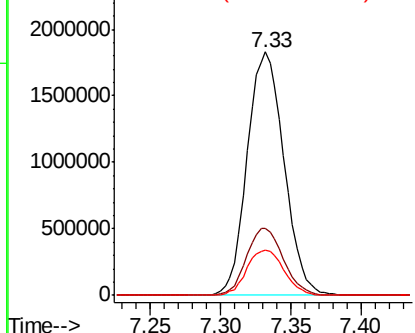
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

Instrument :
 MSVOA_L
 ClientSampleId :
 241-BERRY

Tgt Ion: 114 Resp: 3344254
 Ion Ratio Lower Upper
 114 100
 63 27.6 22.2 33.4
 88 18.9 15.0 22.4

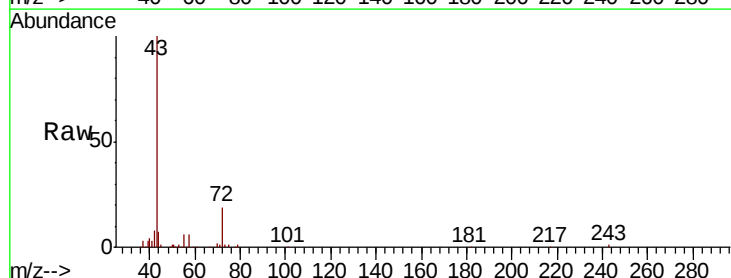


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

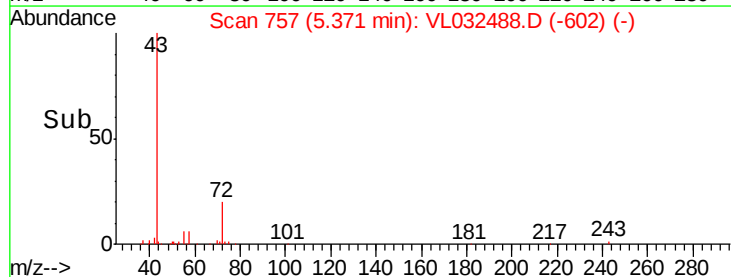
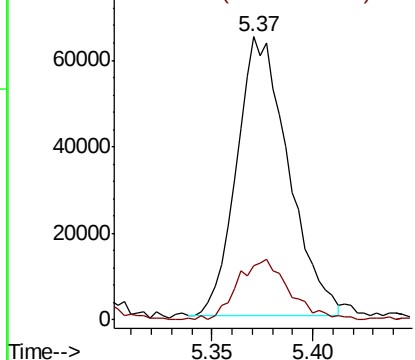


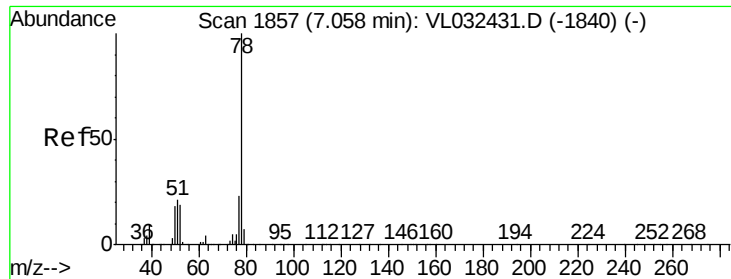
#34
 2-Butanone
 Concen: 0.523 ppbv
 RT: 5.37 min Scan# 757
 Delta R.T. -0.00 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

Tgt Ion: 43 Resp: 116117
 Ion Ratio Lower Upper
 43 100
 72 22.0 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: 0.047 ppbv

RT: 7.05 min Scan# 1279

Delta R.T. -0.01 min

Lab File: VL032488.D

Acq: 10 Sep 2018 21:24

Instrument :

MSVOA_L

ClientSampleId :

241-BERRY

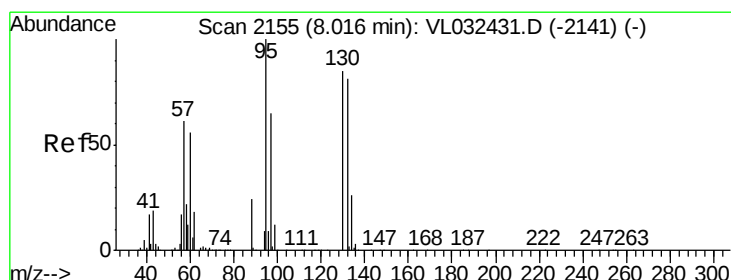
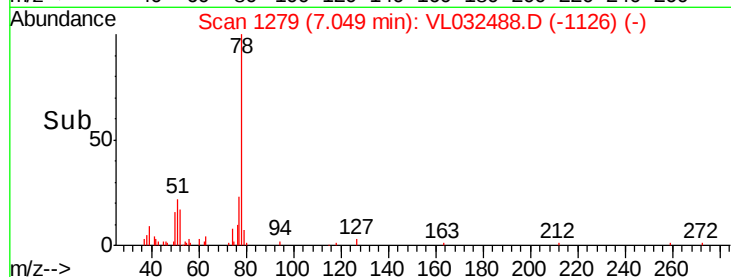
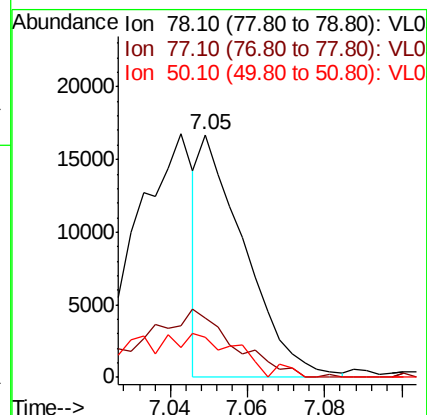
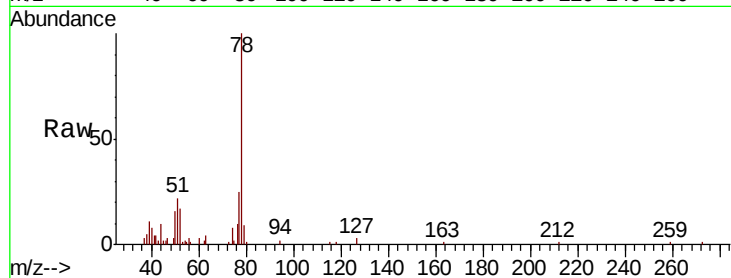
Tgt Ion: 78 Resp: 13480

Ion Ratio Lower Upper

78 100

77 25.1 18.4 27.6

50 16.7 14.4 21.6



#38

Trichloroethene

Concen: 0.067 ppbv

RT: 8.00 min Scan# 1574

Delta R.T. -0.02 min

Lab File: VL032488.D

Acq: 10 Sep 2018 21:24

Tgt Ion: 130 Resp: 7213

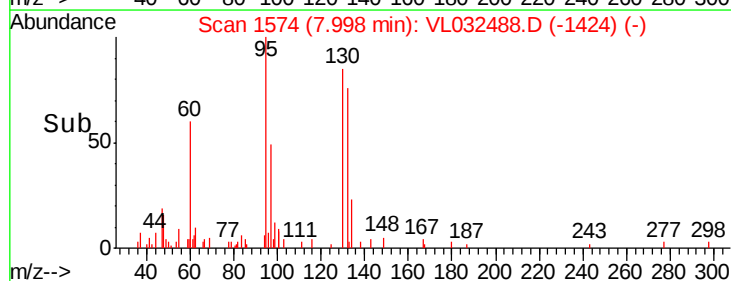
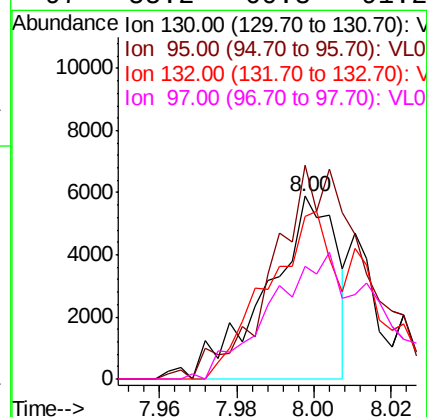
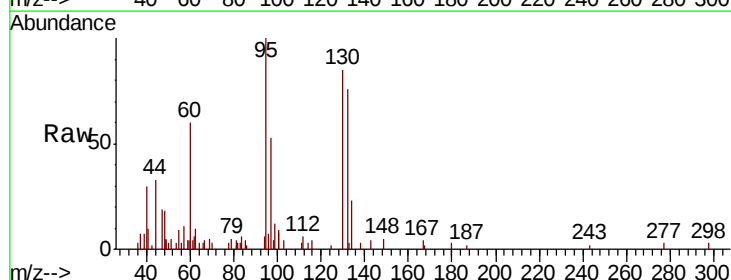
Ion Ratio Lower Upper

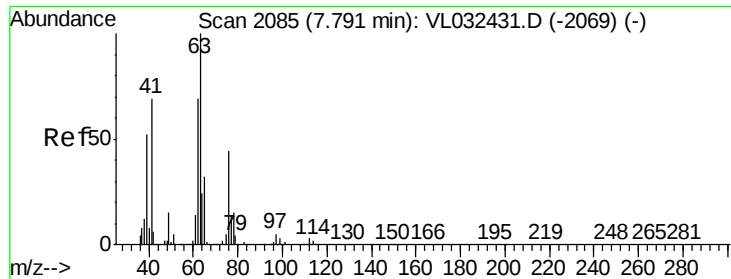
130 100

95 117.0 94.2 141.4

132 88.8 76.2 114.4

97 55.2 60.8 91.2#

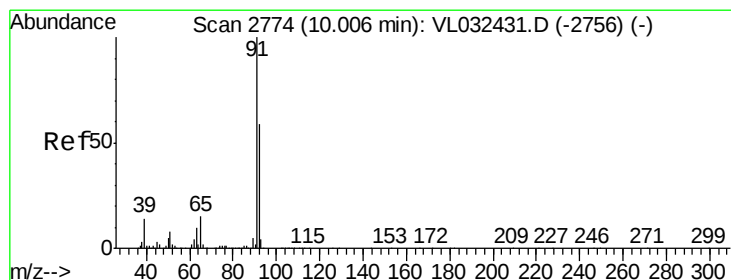
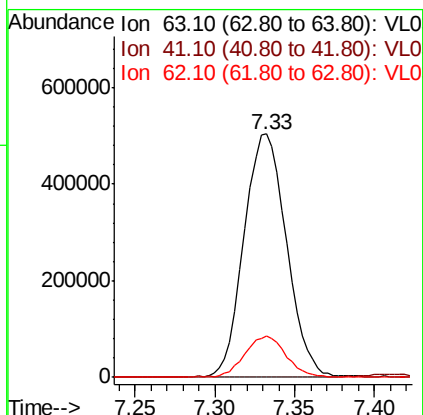
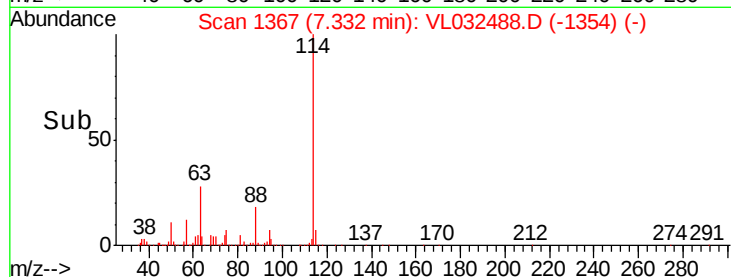
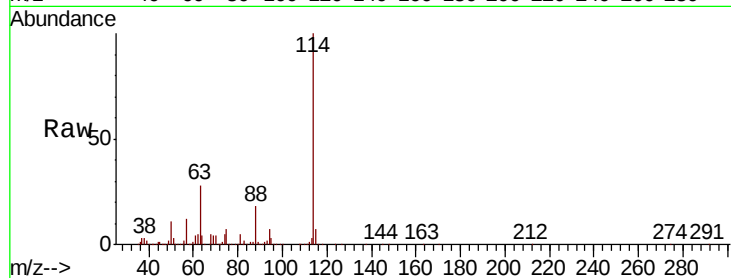




#39
 1,2-Dichloropropane
 Concen: 7.530 ppbv
 RT: 7.33 min Scan# 1367
 Delta R.T. -0.46 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

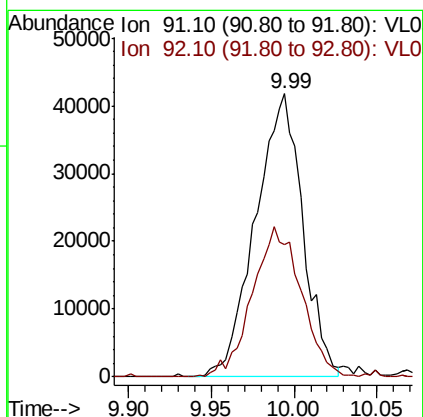
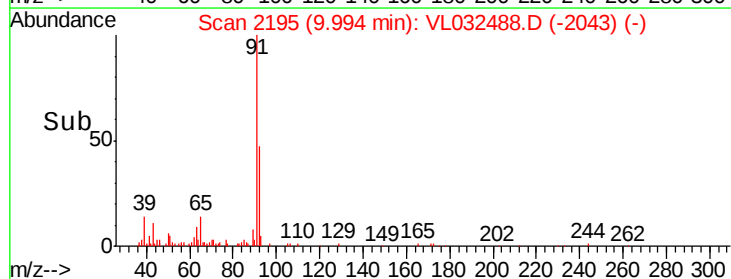
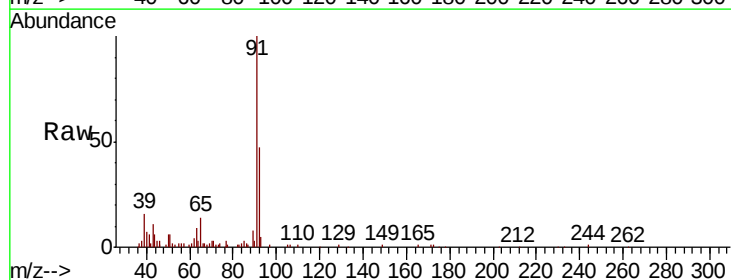
Instrument :
 MSVOA_L
 ClientSampleId :
 241-BERRY

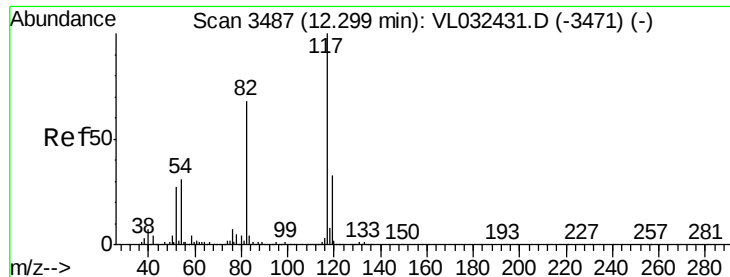
Tgt Ion: 63 Resp: 916909
 Ion Ratio Lower Upper
 63 100
 41 0.0 55.4 83.0#
 62 16.9 55.4 83.0#



#53
 Toluene
 Concen: 0.278 ppbv
 RT: 9.99 min Scan# 2195
 Delta R.T. -0.01 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

Tgt Ion: 91 Resp: 82729
 Ion Ratio Lower Upper
 91 100
 92 55.6 48.1 72.1

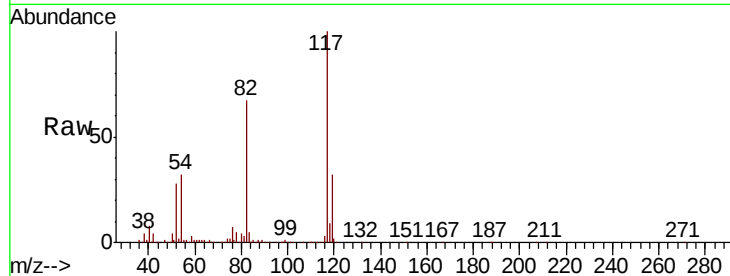




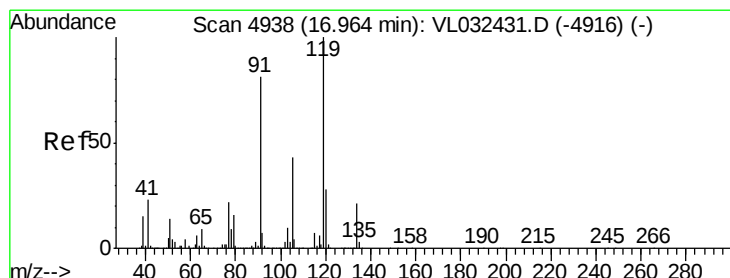
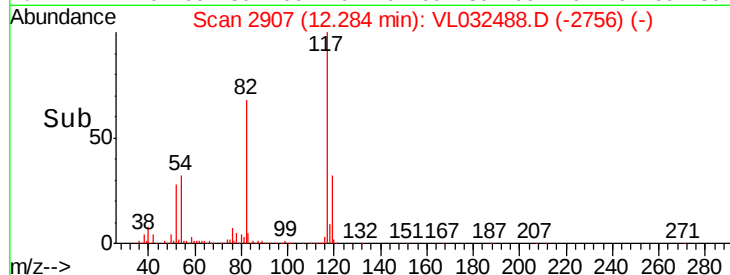
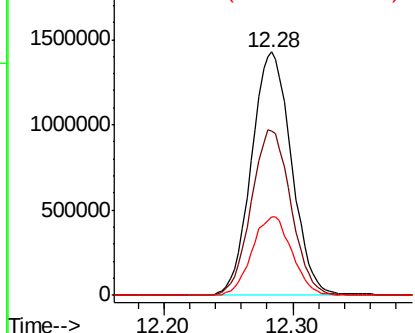
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.01 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

Instrument :
MSVOA_L
ClientSampleId :
241-BERRY

Tgt Ion:117 Resp: 3075626
Ion Ratio Lower Upper
117 100
82 68.1 53.0 79.6
119 32.4 45.9 68.9#

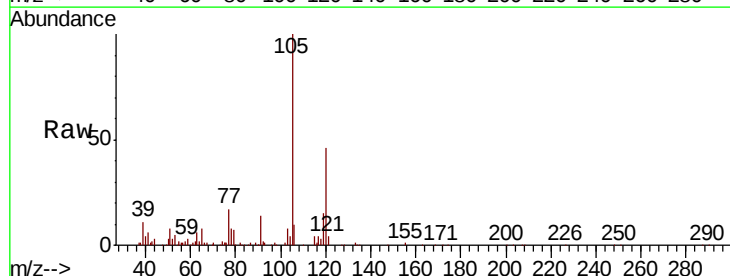


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

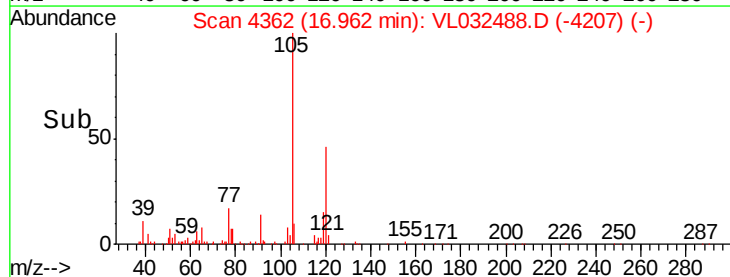
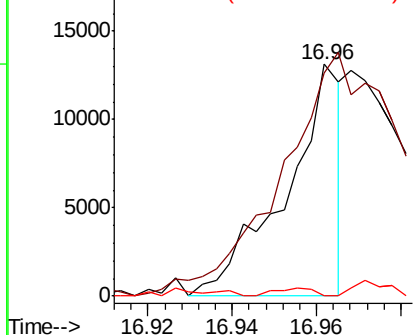


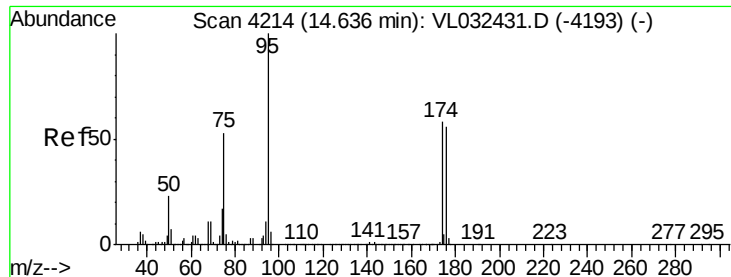
#65
tert-Butylbenzene
Concen: 0.031 ppbv
RT: 16.96 min Scan# 4362
Delta R.T. -0.00 min
Lab File: VL032488.D
Acq: 10 Sep 2018 21:24

Tgt Ion:119 Resp: 11980
Ion Ratio Lower Upper
119 100
91 255.1 66.5 99.7#
134 0.0 16.0 24.0#



Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V

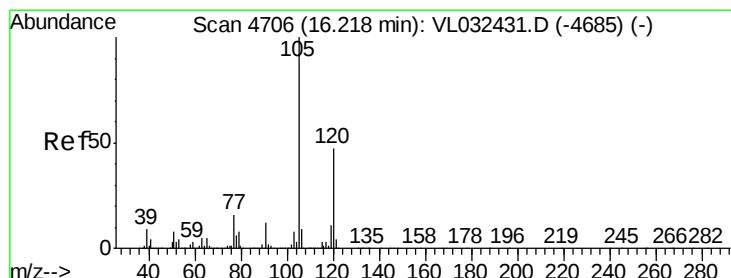
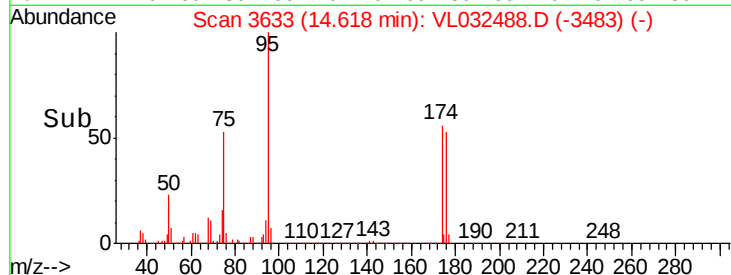
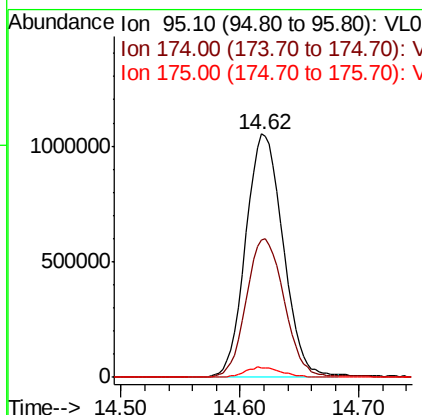
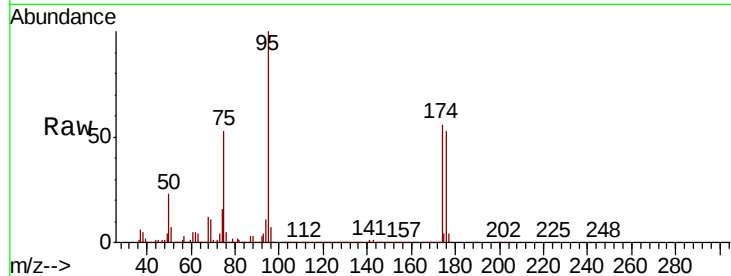




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.047 ppbv
 RT: 14.62 min Scan# 3633
 Delta R.T. -0.02 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

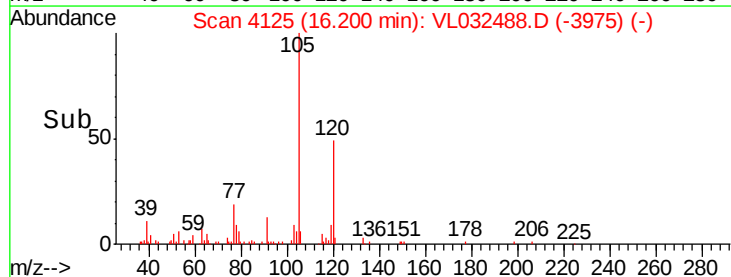
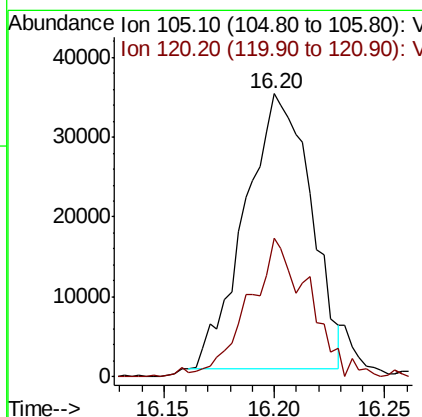
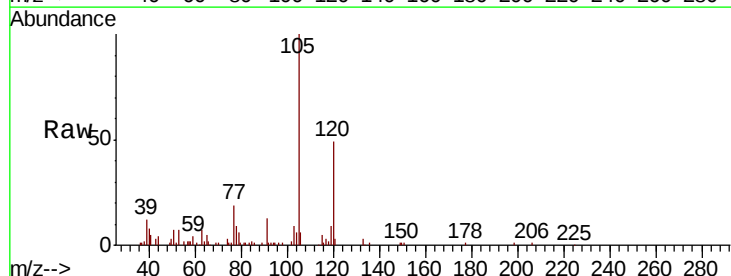
Instrument :
 MSVOA_L
 ClientSampleId :
 241-BERRY

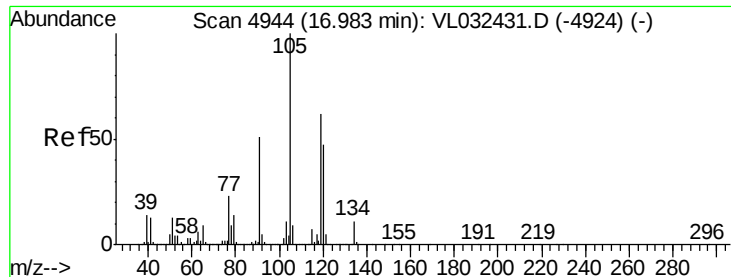
Tgt Ion: 95 Resp: 2294127
 Ion Ratio Lower Upper
 95 100
 174 58.8 46.3 69.5
 175 4.1 3.4 5.0



#73
 1,3,5-Trimethylbenzene
 Concen: 0.202 ppbv
 RT: 16.20 min Scan# 4125
 Delta R.T. -0.02 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

Tgt Ion: 105 Resp: 71131
 Ion Ratio Lower Upper
 105 100
 120 47.8 37.9 56.9

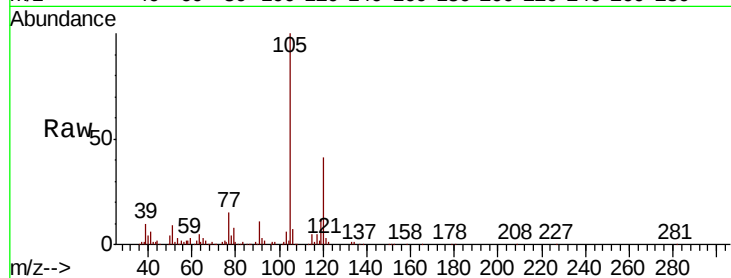




#74
 1,2,4-Trimethylbenzene
 Concen: 0.577 ppbv
 RT: 16.97 min Scan# 4365
 Delta R.T. -0.01 min
 Lab File: VL032488.D
 Acq: 10 Sep 2018 21:24

Instrument :
 MSVOA_L
 ClientSampleId :
 241-BERRY

Tgt Ion:	105	Resp:	222312
Ion Ratio		Lower	Upper
105	100		
120	40.4	37.8	56.8
91	11.4	41.4	62.0#
77	14.9	18.6	28.0#



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

